

2009 Annual Drinking Water Quality Report For

Public Water System Name: EL PRADO WATER COMPANY

Public Water System Number: AZ04 14 442

Esta es información importante. Si no la pueden leer, necesitan que alguien se la traduzca.

We are pleased to present to you this year's water quality report. Our constant goal is to provide you with a safe and dependable supply of drinking water.

General Information About Drinking Water

All 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 the 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 of 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.

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, radioactive material, and can pick up substances resulting from the presence of animals or from human activity. Contaminants that may be present in source water include:

- ***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, 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*** that 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 byproducts of industrial processes and petroleum production, and also may come from gas stations, urban stormwater runoff, and septic systems.
- ***Radioactive contaminants***, that 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, the Arizona Department of Environmental Quality prescribes regulations limiting the amount of certain contaminants in water provided by public water systems. The Food and Drug Administration regulations establish limits for contaminants in bottled water that must provide the same protection for public health.

Our Water Source(s)

The system's sources of water are listed below.

ONE well in the mobile home park.

If we used purchased water, this report is required to include water quality data for the purchased water with this report.

Source Water Assessments on file with the Arizona Department of Environmental Quality are available for public review. If a Source Water Assessment is available, you may obtain a copy of it by contacting the Arizona Source Water Coordinator at (602) 771-4641.

Potential sources of contamination in our source water area come from: NONE

The Source Water Assessment Report provides a screening-level evaluation of potential contamination that **could** occur. It does not mean that the contamination **has or will** occur. We can use this information to evaluate the need to improve our current water treatment capabilities and prepare for future contamination threats. This can help us ensure that quality finished water is delivered to your homes. In addition, the source water assessment results provide a starting point for developing a source water protection plan.

Please contact Sunstate Environmental Services

at (928)341 9685 to learn more about what you can do to help protect your drinking water sources, any questions about the annual drinking water quality report, to learn more about our system, or to attend scheduled public meetings. We want you, our valued customers, to be informed about the services we provide and the quality water we deliver to you every day.

Terms and Abbreviations

To help you understand the terms and abbreviations used in this report, we have provided the following 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 (µg/L)** - one part per billion corresponds to one minute in 2,000 years, or a single penny in \$10,000,000.
- **Parts per trillion (ppt) or Nanograms per liter (nanograms/L)** - one part per trillion corresponds to one minute in 2,000,000 years, or a single penny in \$10,000,000,000.
- **Parts per quadrillion (ppq) or Picograms per liter (picograms/L)** - one part per quadrillion corresponds to one minute in 2,000,000,000 years or one penny in \$10,000,000,000,000.
- **Picocuries per liter (pCi/L)** - picocuries per liter is a measure of the radioactivity in water.
- **Nephelometric Turbidity Unit (NTU)** - nephelometric turbidity unit is a measure of the clarity of water. Turbidity in excess of 5 NTU is just noticeable to the average person.
- **Action Level (AL)** - the concentration of a

contaminant which, if exceeded, triggers treatment or other requirements which a water system must follow.

- **Action Level Goal (ALG)** - The “Goal” is the level of a contaminant in drinking water below which there is no known or expected risk to health. The ALG allows for a margin of safety.
- **Treatment Technique (TT)** - A treatment technique is a required process intended to reduce the level of a contaminant in drinking water.
- **Maximum Contaminant Level Goal (MCLG)** - The “Goal” 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.
- **Maximum Contaminant Level (MCL)**- The “Maximum Allowed” 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 Residual Disinfectant Level Goal (MRDLG)**: 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.
- **Maximum Residual Disinfectant Level (MRDL)**: 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.
- **Running Annual Average (RAA)**: An average of monitoring results for the previous 12 calendar months.

Water Quality Data

We routinely monitor for contaminants in your drinking water according to Federal and State laws. The State of Arizona requires 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, or the system is not considered vulnerable to this type of contamination. Some of our data, though representative, may be more than one year old.

These tables show the results of our monitoring for the period of January 1 to December 31, 2009 unless otherwise noted.

Microbiological Contaminants

Contaminant	MCL	MCLG	Unit	Result	Violation (Yes or No)	Sample Date	Likely Source of Contamination
Total Coliform Bacteria for Systems that collects >40 samples per month	No more than 5% of monthly samples can be positive	0	Absent or Present	0	N	02/12/09	Naturally present in the environment
Total Coliform Bacteria for Systems that collects <40 samples per month	No more than 1 positive monthly sample	0	Absent or Present	0	N	10/15/09	Naturally present in the environment
Fecal coliform and E. Coli	A routine sample & a repeat sample are total coliform positive, & one is also fecal coliform or <i>E. coli positive</i>	0	Absent or Present				Human and animal fecal waste

Turbidity

	TT Requirement	Level Found	Violation (Yes or No)	Sample Date	Likely Source of Contamination
Turbidity	Maximum ____ . ____ NTU for any single measurement	Highest single measurement:		Date:	Soil Runoff
	In any month, at least 95% of samples must be less than ____ . ____ NTU	Lowest monthly percentage of samples meeting TT standard for our technology:		Month:	

Radionuclides

Contaminant	MCL	MCLG	Units	Level Detected & Range	Violation (Yes or No)	Sample Date	Likely Source of Contamination
Beta/photon emitters	Trigger level=15	0	pCi/l				Decay of natural and man-made deposits
Alpha emitters	15	0	pCi/l				Erosion of natural deposits
Combined radium	5	0	pCi/l	<0.4	N		Erosion of natural deposits
Uranium	30	0	ppb				Erosion of natural deposits

Lead and Copper

Contaminant	AL	ALG	Units	90 th Percentile	Number of Sites over AL	Violation (Yes or No)	Sample Date/Year	Likely Source of Contamination
Copper	1.3	1.3	ppm			N		Corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives
Lead	15	0	ppb			N=		Corrosion of household plumbing systems, erosion of natural deposits

Disinfectants

	MRDL	MRDLG	Units	Level Detected & Range	Violation (Yes or No)	Sample Date/Year	Source
Chloramines	4	4	ppm			RAA	Water additive used to control microbes
Chlorine	4	4	ppm			RAA	Water additive used to control microbes
Chloride dioxide	800	800	ppb				Water additive used to control microbes

Disinfection Byproducts

Contaminant	MCL	MCLG	Units	Average	Range	Highest RAA	Violation (Yes or No)	Sample Date/Year	Likely Source of Contamination
Haloacetic Acids (HAA)	80	N/A	ppb						By-product of drinking water disinfection
Total Trihalomethanes (TTHM)	60	N/A	ppb						By-product of drinking water disinfection
Bromates	10	0	ppb						By-product of drinking water disinfection
Chlorite	1	0.8	ppm						By-product of drinking water disinfection

Total Organic Carbon

Contaminant	Compliance Factor (measurements should not be lower than this factor)	Lowest Running Annual Average (compliance factor)	Running Annual Average Range for the Year (compliance factor)	Violation (Yes or No)	Sample Date/Year	Likely Source of Contamination

Total Organic Carbon (TOC)	1.0					Naturally present in the environment
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Inorganic Contaminants

Contaminant	MCL	MCLG	Units	Level Detected /Range	Violation (Yes or No)	Sample Date	Likely Source of Contamination
Antimony	6	6	ppb	ND	NO	2008	Discharge from petroleum refineries; fire retardants; ceramics; electronics; solder
Arsenic * Effective January 23, 2006 the MCL is now 10 ppb.	50*	0	ppb	0.018	YES	2009	Erosion of natural deposits; runoff from orchards; runoff from glass and electronics production wastes
Asbestos	7	7	MFL				Decay of asbestos cement water mains; erosion of natural deposits
Barium	2	2	ppm	.0240	NO	2008	Discharge of drilling wastes; discharge from metal refineries; erosion of natural deposits
Beryllium	4	4	ppb	ND	NO	2008	Discharge from metal refineries and coal-burning factories; discharge from electrical, aerospace, and defense industries
Cadmium	5	5	ppb	ND	NO	2008	Corrosion of galvanized pipes; erosion of natural deposits; discharge from metal refineries; runoff from waste batteries and paints
Chromium	100	100	ppb	ND	NO	2008	Discharge from steel and pulp mills; erosion of natural deposits
Cyanide	200	200	ppb	ND	NO	2008	Discharge from steel/metal factories; discharge from plastic and fertilizer factories
Fluoride	4	4	ppm	2.4	NO	2008	Erosion of natural deposits; water additive which promotes strong teeth; discharge from fertilizer and aluminum factories
Mercury (inorganic)	2	2	ppb	ND	NO	2008	Erosion of natural deposits; discharge from refineries and factories; runoff from landfills; runoff from cropland
Nitrate (as Nitrogen)	10	10		0.94	NO	2008	Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits
Nitrite (as Nitrogen)	1	1	ppm	ND	NO	2008	Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits
Selenium	50	50	ppb	.0030	NO	2008	Discharge from petroleum and metal refineries; erosion of natural deposits; discharge from mines
Thallium	2	0.5	ppb	ND	NO	2008	Leaching from ore-processing sites; discharge from electronics, glass, and drug factories

Synthetic Organic Contaminants, Including Pesticides and Herbicides

Contaminant	MCL	MCLG	Units	Level Detected /Range	Violation (Yes or No)	Sample Date	Likely Source of Contamination
2,4-D	70	70	ppb				Runoff from herbicide used on row crops
2,4,5-TP (Silvex)	50	50					Residue of banned herbicide
Acrylamide	TT	0	N/A				Added to water during sewage/wastewater treatment
Alachlor	2	0	ppb				Runoff from herbicide used on row crops
Atrazine	3	3	ppb				Runoff from herbicide used on row crops
Benzo (a) pyrene (PAH)	200	0	ppt				Leaching from linings of water storage tanks and distribution lines
Carbofuran	40	40	ppb				Leaching of soil fumigant used on rice and alfalfa
Chlordane	2	0	ppb				Residue of banned termiticide
Dalapon	200	200	ppb				Runoff from herbicide used on rights of way
Di (2-ethylhexyl) adipate	400	400	ppb				Discharge from chemical factories
Di (2-ethylhexyl) phthalate	6	0	ppb				Discharge from rubber and chemical factories
Dibromochloropropane	200	0	ppt				Runoff/leaching from soil fumigant used on soybeans, cotton, pineapples, and orchards
Dinoseb	7	7	ppb				Runoff from herbicide used on soybeans and vegetables
Diquat	20	20	ppb	ND	N		Runoff from herbicide use
Dioxin [2,3,7,8-TCDD]	30	0	ppq	ND	N		Emissions from waste incineration and other combustion; discharge from chemical factories
Endothall	100	100	ppb	ND	N		Runoff from herbicide use
Endrin	2	2	ppb	ND	N		Residue of banned insecticide

Contaminant	MCL	MCLG	Units	Level Detected /Range	Violation (Yes or No)	Sample Date	Likely Source of Contamination
Epichlorohydrin	TT	0	N/A	ND	N		Discharge from industrial chemical factories; an impurity of some water treatment chemicals
Ethylene dibromide	50	0	ppt	ND	N		Discharge from petroleum refineries
Glyphosate	700	700	ppb	ND	N		Runoff from herbicide use
Heptachlor	400	0	ppt	ND	N		Residue of banned temiticide
Heptachlor epoxide	200	0	ppt	ND	N		Breakdown of heptachlor
Hexachlorobenzene	1	0	ppb	ND	N		Discharge from metal refineries and agricultural chemical factories
Hexachlorocyclo pentadiene	50	50	ppb	ND	N		Discharge from chemical factories
Lindane	200	200	ppt	ND	N		Runoff/leaching from insecticide used on cattle, lumber, gardens
Methoxychlor	40	40	ppb	ND	N		Runoff/leaching from insecticide used on fruits, vegetables, alfalfa, livestock
Oxamyl [Vydate]	200	200	ppb	ND	N		Runoff/leaching from insecticide used on apples, potatoes and tomatoes
PCBs [Polychlorinated biphenyls]	500	0	ppt	ND	N		Runoff from landfills; discharge of waste chemicals
Pentachlorophenol	1	0	ppb	ND	N		Discharge from wood preserving factories
Picloram	500	500	ppb	ND	N		Herbicide runoff
Simazine	4	4	ppb	ND	N		Herbicide runoff
Toxaphene	3	0	ppb	ND	N		Runoff/leaching from insecticide used on cotton and cattle

Volatile Organic Contaminants

Contaminant	MCL	MCLG	Units	Level Detected /Range	Violation (Yes or No)	Sample Date	Likely Source of Contamination
Benzene	5	0	ppb	ND	N		Discharge from factories; leaching from gas storage tanks and landfills
Carbon tetrachloride	5	0	ppb	ND	N		Discharge from chemical plants and other industrial activities
Chlorobenzene	100	100	ppb	ND	N		Discharge from chemical and agricultural chemical factories
o-Dichlorobenzene	600	600	ppb	ND	N		Discharge from industrial chemical factories
p-Dichlorobenzene	75	75	ppb	ND	N		Discharge from industrial chemical factories
1,2-Dichloroethane	5	0	ppb	ND	N		Discharge from industrial chemical factories
1,1-Dichloroethylene	7	7	ppb	ND	N		Discharge from industrial chemical factories
cis-1,2-Dichloroethylene	70	70	ppb	ND	N		Discharge from industrial chemical factories
trans-1,2-Dichloroethylene	100	100	ppb	ND	N		Discharge from industrial chemical factories
Dichloromethane	5	0	ppb	ND	N		Discharge from pharmaceutical and chemical factories
1,2-Dichloropropane	5	0	ppb	ND	N		Discharge from industrial chemical factories
Ethylbenzene	700	700	ppb	ND	N		Discharge from petroleum refineries
Styrene	100	100	ppb	ND	N		Discharge from rubber and plastic factories; leaching from landfills
Tetrachloroethylene	5	0	ppb	ND	N		Discharge from factories and dry cleaners
1,2,4-Trichlorobenzene	70	70	ppb	ND	N		Discharge from textile-finishing factories
1,1,1-Trichloroethane	200	200	ppb	ND	N		Discharge from metal degreasing sites and other factories
1,1,2-Trichloroethane	5	3	ppb	ND	N		Discharge from industrial chemical factories
Trichloroethylene	5	0	ppb	ND	N		Discharge from metal degreasing sites and other factories
Toluene	1	1	ppm	ND	N		Discharge from petroleum factories
Vinyl Chloride	2	0	ppb	ND	N		Leaching from PVC piping; discharge from chemical factories
Xylenes	10	10	ppm	ND	N		Discharge from petroleum factories; discharge from chemical factories

Unregulated Contaminants

Unregulated contaminants are those for which EPA has not established drinking water standards. The purpose of unregulated contaminant monitoring is to assist EPA in determining the occurrence of unregulated contaminants in drinking water and whether future regulation is warranted.

Contaminant	MCL	MCLG	Units	Level Detected/ Range	Violation (Yes or No)	Sample Date	Likely Source of Contamination
	N/A	N/A			N/A		

Contaminant	MCL	MCLG	Units	Level Detected/Range	Violation (Yes or No)	Sample Date	Likely Source of Contamination
	N/A	N/A			N/A		
	N/A	N/A			N/A		

Secondary Contaminants

Secondary standards are non-enforceable guidelines for contaminants that may cause cosmetic effects or aesthetic effects in drinking water. EPA recommends these standards but does not require water systems to comply.

Contaminant	Secondary Standard	MCLG	Units	Level Detected/Range	Violation (Yes or No)	Sample Date	Likely Source
Aluminum	0.05 to 0.2	N/A	ppm		N/A		
Color	15	N/A	color units		N/A		
Corrosivity	noncorrosive	N/A	N/A		N/A		
Foaming Agents	0.5	N/A	ppm		N/A		
Iron	0.3	N/A	ppm		N/A		
Manganese	0.05	N/A	ppm		N/A		
Odor	3	N/A	threshold odor number		N/A		
pH	6.5 – 8.5	N/A	ppm		N/A		
Silver	0.10	N/A	ppm		N/A		
Sodium	N/A	N/A	ppm		N/A		
Sulfate	250	N/A	ppm		N/A		
Total Dissolved Solids	500	N/A	ppm		N/A		
Zinc	5	N/A	ppm		N/A		

Health Effects Information About the Above Tables

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.

If **arsenic** is less than 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. 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.

Infants and young children are typically more vulnerable to **lead** in drinking water than the general population. It is possible that lead levels at your home may be higher than at other homes in the community as a result of materials used in your home's plumbing. If you are concerned about elevated lead levels in your home's water, you may wish to have your water tested. Flush your tap for 30 seconds to 2 minutes before using tap water. Additional information is available from the EPA *Safe Drinking Water Hotline* at 1-800-426-4791.

Violations

The following violations were received by our water system or were ongoing in the calendar year 2009

Type/Description	Compliance Period
ARSENIC is slightly above the 0.01 @ 0.018. We are cleaning the arsenic filter media to maintain compliance	2009

An explanation of the violation(s) in the above table, the steps taken to resolve the violation(s) and any required health effects information are required to be included with this report. (attach copy of Public Notice if available)