

# RVWC CCR 2004

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## **Spanish (Español)**

Este informe contiene información muy importante sobre la calidad de su agua beber. Tradúscalo o hable con alguien que lo entienda bien.

## **Is my water safe?**

Last year, your tap water met all U.S. Environmental Protection Agency (EPA) and state drinking water health standards. Rose Valley Water vigilantly safeguards its water supplies and we are proud to report that our system has not violated a maximum contaminant level or any other water quality standard.

This report is a snapshot of last year's water quality. Included are details about where your water comes from, what it contains, and how it compares to standards set by regulatory agencies. We are committed to providing you with information because informed customers are our best allies.

## **Do I need to take special precautions?**

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

## **Where does my water come from?**

Our water source is from groundwater from the aquifer over 600 feet below ground and is pumped up to our storage tanks and distribution system by our two wells which are active at this time and are located in our service area.

### **Source water assessment and its availability**

The Source Water Assessment Program (SWAP) is completed by the Arizona Department of Environmental Quality (ADEQ).

The SWAP evaluates each source water that provides drinking water to each Public Water System (PWS) in Arizona. This evaluation determines the degree to which a PWS is protected, or at risk from contamination. Water sources are then categorized as either “high risk” or “low risk”.

Rose Valley's SWAP states the following: “Based on the information currently available on the hydrogeologic settings of and the adjacent land uses that are in the specified proximity of the drinking water source(s) of this public water system, the department has given a low risk designation for the degree to which this public water system drinking water source(s) are protected. A low risk designation indicates that most source water protection measures are either already implemented, or the hydrogeology is such that the source water protection measures will have little impact on protection.”

For more information please contact ADEQ toll free at 1-800-234-5677 extension 4425 or (602) 771-4644.

### **Why are there contaminants in my drinking water?**

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 water poses a health risk. More information about contaminants and potential health effects can be obtained by calling the Environmental Protection Agency's (EPA) 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, radioactive material, and can pick up substances resulting from the presence of animals or from human activity. 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, 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 can also come from gas stations, urban stormwater runoff, and septic systems. Radioactive contaminants, 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, EPA prescribes regulations that limit the amount of certain contaminants in water provided by public water systems. Food and Drug Administration (FDA) regulations establish limits for contaminants in bottled water which must provide the same protection for public health.

### **How can I get involved?**

Please contact Hoyt Pinaire at 1 800 850 4482.

### Additional Information for Lead

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 and flush your tap for 30 seconds to 2 minutes before using tap water. Additional information is available from Safe Drinking Water Hotline (800-426-4791). Infants and children who drink water containing lead in excess of the action level could experience delays in their physical or mental development. Children could show slight deficits in attention span and learning abilities. Adults who drink this water over many years could develop kidney problems or high blood pressure.

### Additional Information for Arsenic

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 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.

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## Water Quality Data Table

The table below lists all of the drinking water contaminants that we detected during the calendar year of this report. The presence of contaminants in the water does not necessarily indicate that the water poses a health risk. Unless otherwise noted, the data presented in this table is from testing done in the calendar year of the report. The EPA or the State requires us to monitor for certain contaminants less than once per year because the concentrations of these contaminants do not change frequently.

<u>Contaminants</u>	<u>MCLG or MRDLG</u>	<u>MCL, TT, or MRDL</u>	<u>Your Water</u>	<u>Range Low High</u>	<u>Sample Date</u>	<u>Violation</u>	<u>Typical Source</u>
<b>Disinfectants &amp; Disinfection By-Products</b> (There is convincing evidence that addition of a disinfectant is necessary for control of microbial contaminants.)							
Chlorine (as Cl <sub>2</sub> ) (ppm)	4	4	1.34	NA	2004	No	Water additive used to control microbes
Haloacetic Acids (HAA5) (ppb)	NA	60	0	NA	2004	No	By-product of drinking water chlorination
<b>Inorganic Contaminants</b>							
Antimony (ppb)	6	6	1	NA	2004	No	Discharge from petroleum refineries; fire retardants; ceramics; electronics; solder; test addition.
Arsenic (ppb)	0	50	5.4	NA	2004	No	Erosion of natural deposits; Runoff from orchards; Runoff from glass and electronics production wastes
Asbestos (MFL)	7	7	0.2	NA	2004	No	Decay of asbestos cement water mains; Erosion of natural deposits

Barium (ppm)	2	2	0.035	NA	2004	No	Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits
Beryllium (ppb)	4	4	1	NA	2004	No	Discharge from metal refineries and coal-burning factories; Discharge from electrical, aerospace, and defense industries
Cadmium (ppb)	5	5	0.5	NA	2004	No	Corrosion of galvanized pipes; Erosion of natural deposits; Discharge from metal refineries; runoff from waste batteries and paints
Chromium (ppb)	100	100	2.4	NA	2004	No	Discharge from steel and pulp mills; Erosion of natural deposits
Copper - source water (mg/L)		MPL	0.02(MPL)	NA	2004	No	Corrosion of household plumbing systems; Erosion of natural deposits
Cyanide [as Free Cn] (ppb)	200	200	30	NA	2004	No	Discharge from plastic and fertilizer factories; Discharge from steel/metal factories
Fluoride (ppm)	4	4	0.15	NA	2004	No	Erosion of natural deposits; Water additive which promotes strong teeth; Discharge from fertilizer and aluminum factories
Mercury [Inorganic] (ppb)	2	2	0.2	NA	2004	No	Erosion of natural deposits; Discharge from refineries and factories; Runoff from landfills; Runoff from cropland
Nitrate [measured as Nitrogen] (ppm)	10	10	1.2	NA	2004	No	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits
Nitrite [measured as Nitrogen] (ppm)	1	1	0.1	NA	2004	No	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits
Selenium (ppb)	50	50	5	NA	2004	No	Discharge from petroleum and metal refineries; Erosion of natural deposits; Discharge from mines
Sodium (optional) (ppm)		MPL	36	NA	2004	No	Erosion of natural deposits; Leaching
Thallium (ppb)	0.5	2	1	NA	2004	No	Discharge from electronics, glass, and Leaching from ore-processing sites; drug factories

#### Microbiological Contaminants

Fecal coliform/E. coli (positive samples)	0	0	0	NA	2004	No	Human and animal fecal waste
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A violation occurs when a routine sample and a repeat sample, in any given month, are total coliform positive, and one is also fecal coliform or E. coli positive.

Total Coliform (positive samples/month)	0	1	1	NA	2004	No	Naturally present in the environment
<b>Radioactive Contaminants</b>							
Alpha emitters (pCi/L)	0	15	3.7	NA	2000	No	Erosion of natural deposits
Radium (combined 226/228) (pCi/L)	0	5	0.04	NA	2003	No	Erosion of natural deposits
<b>Synthetic organic contaminants including pesticides and herbicides</b>							
Chlordane (ppb)	0	2	0.1	NA	2001	No	Residue of banned termiticide
Dioxin (2,3,7,8-TCDD) (ppq)	0	30	5	NA	2004	No	Emissions from waste incineration and other combustion; Discharge from chemical factories
Endrin (ppb)	2	2	0.01	NA	2001	No	Residue of banned insecticide
Heptachlor (ppt)	0	400	10	NA	2001	No	Residue of banned pesticide
Heptachlor epoxide (ppt)	0	200	10	NA	2001	No	Breakdown of heptachlor
Lindane (ppt)	200	200	10	NA	2001	No	Runoff/leaching from insecticide used on cattle, lumber, gardens
Methoxychlor (ppb)	40	40	0.05	NA	2001	No	Runoff/leaching from insecticide used on fruits, vegetables, alfalfa, livestock
Toxaphene (ppb)	0	3	0.5	NA	2001	No	Runoff/leaching from insecticide used on cotton and cattle
<b>Volatile Organic Contaminants</b>							
1,1,1-Trichloroethane (ppb)	200	200	0.5	NA	2004	No	Discharge from metal degreasing sites and other factories
1,1,2-Trichloroethane (ppb)	3	5	0.5	NA	2004	No	Discharge from industrial chemical factories
1,1-Dichloroethylene (ppb)	7	7	0.5	NA	2004	No	Discharge from industrial chemical factories
1,2,4-Trichlorobenzene (ppb)	70	70	0.5	NA	2004	No	Discharge from textile-finishing factories
1,2-Dichloroethane (ppb)	0	5	0.5	NA	2004	No	Discharge from industrial chemical factories
1,2-Dichloropropane (ppb)	0	5	0.5	NA	2004	No	Discharge from industrial chemical factories
Benzene (ppb)	0	5	0.5	NA	2004	No	Discharge from factories; Leaching from gas storage tanks and landfills
Carbon Tetrachloride (ppb)	0	5	0.5	NA	2004	No	Discharge from chemical plants and other industrial activities
Chlorobenzene (monochlorobenzene) (ppb)	100	100	0.5	NA	2004	No	Discharge from chemical and agricultural chemical factories
cis-1,2-Dichloroethylene (ppb)	70	70	0.5	NA	2004	No	Discharge from industrial chemical factories
Dichloromethane (ppb)	0	5	0.5	NA	2004	No	Discharge from pharmaceutical and chemical factories
Ethylbenzene (ppb)	700	700	0.5	NA	2004	No	Discharge from petroleum refineries

o-Dichlorobenzene (ppb)	600	600	0.5	NA	2004	No	Discharge from industrial chemical factories
p-Dichlorobenzene (ppb)	75	75	0.5	NA	2004	No	Discharge from industrial chemical factories
Styrene (ppb)	100	100	0.5	NA	2004	No	Discharge from rubber and plastic factories; Leaching from landfills
Tetrachloroethylene (ppb)	0	5	0.5	NA	2004	No	Discharge from factories and dry cleaners
Toluene (ppm)	1	1	0.0005	NA	2004	No	Discharge from petroleum factories
trans-1,2-Dichloroethylene (ppb)	100	100	0.5	NA	2004	No	Discharge from industrial chemical factories
Trichloroethylene (ppb)	0	5	0.5	NA	2004	No	Discharge from metal degreasing sites and other factories
TTHMs [Total Trihalomethanes] (ppb)	NA	80	5.6	NA	2004	No	By-product of drinking water disinfection
Vinyl Chloride (ppb)	0	2	0.3	NA	2004	No	Leaching from PVC piping; Discharge from plastics factories
Xylenes (ppm)	10	10	0.0005	NA	2004	No	Discharge from petroleum factories; Discharge from chemical factories

<u>Contaminants</u>	<u>MCLG</u>	<u>AL</u>	<u>Your Water</u>	<u>Sample Date</u>	<u># Samples Exceeding AL</u>	<u>Exceeds AL</u>	<u>Typical Source</u>
<b>Inorganic Contaminants</b>							
Copper - action level at consumer taps (ppm)	1.3	1.3	0.6	2002	1	No	Corrosion of household plumbing systems; Erosion of natural deposits
Lead - action level at consumer taps (ppb)	0	15	6.5	2002	1	No	Corrosion of household plumbing systems; Erosion of natural deposits

## Undetected Contaminants

The following contaminants were monitored for, but not detected, in your water.

<u>Contaminants</u>	<u>MCLG or MRDLG</u>	<u>MCL or MRDL</u>	<u>Your Water</u>	<u>Violation</u>	<u>Typical Source</u>
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<b>Unit Descriptions</b>	
<u>Term</u>	<u>Definition</u>
ppm	ppm: parts per million, or milligrams per liter (mg/L)
ppb	ppb: parts per billion, or micrograms per liter (µg/L)
ppt	ppt: parts per trillion, or nanograms per liter
ppq	ppq: parts per quadrillion, or picograms per liter
pCi/L	pCi/L: picocuries per liter (a measure of radioactivity)
MFL	MFL: million fibers per liter, used to measure asbestos concentration
positive samples/month	positive samples/month: Number of samples taken monthly that were found to be positive

positive samples	positive samples/yr: The number of positive samples taken that year
NA	NA: not applicable
ND	ND: Not detected
NR	NR: Monitoring not required, but recommended.

<b>Important Drinking Water Definitions</b>	
<b>Term</b>	<b>Definition</b>
MCLG	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.
MCL	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.
TT	TT: Treatment Technique: A required process intended to reduce the level of a contaminant in drinking water.
AL	AL: Action Level: The concentration of a contaminant which, if exceeded, triggers treatment or other requirements which a water system must follow.
Variances and Exemptions	Variances and Exemptions: State or EPA permission not to meet an MCL or a treatment technique under certain conditions.
MRDLG	MRDLG: Maximum residual disinfection 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.
MRDL	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.
MNR	MNR: Monitored Not Regulated
MPL	MPL: State Assigned Maximum Permissible Level

**For more information please contact:**

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