

Does CVWD fluoridate the drinking water?

CVWD does not add fluoride to the water. However, fluoride is a naturally occurring element found in local groundwater.

Do I need a water softener?

No. CVWD tap water meets all drinking water standards and does not need to be conditioned or filtered. CVWD does not prohibit the use of water softeners, but district ordinance does prohibit the discharge of excess salt down the drain.

Discharged salt can harm the groundwater and may require additional treatment, which would increase future costs of providing sewer and water services. If you choose to soften your water, please check with your local water conditioning expert or the Pacific Water Quality Association to avoid installing a system that discharges excess salt down the drain.

For more detailed information:

To receive a summary of the district's source water assessments, or for additional water quality data or clarification, call the district's Water Quality Section at (760) 398-2651. Complete copies of source water assessments may be viewed at the Coachella Valley Water District, 85-995 Avenue 52, Coachella, CA 92236.

Este informe contiene información muy importante sobre su agua potable. Tradúzcalo ó hable con alguien que lo entienda bien. También puede llamar al distrito de agua al número de teléfono (760) 398-2651.

2011 Domestic Water Quality Report



Local students tour the CVWD Water Quality Laboratory to learn about water quality issues and testing procedures.

Coachella Valley Water District is committed to delivering high quality drinking water that meets stringent government standards. This annual report documents that the water served to all CVWD water users (obtained from wells drilled into the Coachella Valley's vast groundwater basin) meets state and federal drinking water quality standards.

The district is tasked with ensuring that CVWD drinking water meets these standards. Highly trained employees monitor the water systems and collect drinking water samples that are tested at the district's state-certified laboratory. A few specialized tests are performed by other certified laboratories. In addition to the detected constituents listed in the table on pages 8-9, CVWD's Water Quality staff monitors for more than 100 other regulated and unregulated chemicals.

CVWD is governed by a locally elected, five-member board of directors who normally meet in public session at 9 a.m., on the second and fourth Tuesdays of each month at the district's Coachella office at Avenue 52 & Highway 111.

The following report is written and provided in accordance with California Department of Public Health requirements:

While all of CVWD's domestic water supply meets state and federal standards, drinking water supplied to some service areas does contain low levels of naturally occurring arsenic. The arsenic standard balances the current understanding of arsenic's possible health effects against the costs of removing arsenic from drinking water. The U.S. Environmental Protection Agency 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. All drinking water delivered by CVWD last year complies with the 10 ug/L MCL.

Radon is a naturally occurring,

radioactive gas — a by-product of uranium — that originates underground but is found in the air. Radon moves from the ground into homes primarily through cracks and holes in their foundations. While most radon enters the home through soil, radon from tap water typically is less than two percent of the radon in indoor air.

The U.S. Environmental Protection Agency (USEPA) has determined that breathing radon gas increases an individual's chances of developing lung cancer, and has proposed a maximum contaminant level of 300 picoCuries per liter (pCi/L) for radon in drinking water. This proposed standard is far less than the 4,000 pCi/L in water that is equivalent to

the radon level found in outdoor air. The radon level in district wells ranges from none detected to 460 pCi/L, significantly lower than that found in the air you breathe.

Nitrate in drinking water at levels above 45 milligrams per liter (mg/L) is a health risk for infants younger than six months old. High nitrate levels in drinking water can interfere with the capacity of the infant's blood to carry oxygen, resulting in serious illness; symptoms include shortness of breath and blueness of skin. Nitrate levels above 45 mg/L may also affect the ability of the blood to carry oxygen in other individuals, such as pregnant women and those with certain enzyme deficiencies. If you are caring for an infant, or you are pregnant, you should ask for advice from your health care provider.

Nitrate levels in district wells ranges from no detection to 40 mg/L, which is below the maximum containment level.

If present, elevated levels of lead can cause serious health problems, especially for pregnant women and young children. Lead in drinking water is primarily from materials and components associated with service lines and home plumbing.

Coachella Valley Water District is responsible for providing high quality drinking water, but cannot control the variety of materials used in plumbing components. When your water has been sitting for several hours, you can minimize the potential for lead exposure by flushing your tap for 30 seconds before using water for drinking or cooking. You can capture this flushed water in a container and use it for watering plants. If you are concerned about lead in your water, you may wish to have your water tested. Information on lead in drinking water, testing methods, and steps you can take to

minimize exposure is available from the Safe Drinking Water Hotline or at <http://www.epa.gov/safewater/lead>.

As noted, all drinking water served by CVWD comes from wells. The California Department of Public Health requires water agencies to state, however, "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, that 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, that are by-products of industrial processes and petroleum production, and can also 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.

"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.

USEPA/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 Drinking Water Hotline 1-800-426-4791** or www.epa.gov/safewater."

—California Department of Public Health

"In order to ensure that tap water is safe to drink, USEPA and the state Department of Public Health (Department) prescribe regulations that limit the amount of certain contaminants in water provided by public water systems."

Department regulations also establish limits for contaminants in bottled water that must provide the same protection for public health. "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 USEPA's Safe Drinking Water Hotline (1-800-426-4791) or the National Safe Council Radon Hotline (1-800-SOS-RADON)."

Drinking Water Source Water Assessments:

The district has conducted source water assessments that provide information about the vulnerability of district wells to contamination. In 2002, CVWD completed a comprehensive source water assessment that evaluated all groundwater wells supplying the district's six public water systems. An assessment is performed on each new well added to CVWD's system. Groundwater from these district wells are considered vulnerable to activities associated with urban and agricultural uses.

Urban land uses include the following activities: known contaminant plumes, dry cleaners, underground storage tanks, septic systems, automobile gas stations (including historic), automobile repair shops, historic waste dumps/landfills, illegal/unauthorized dumping, sewer collection systems and utility stations' maintenance areas.

Agricultural land uses include the following activities: irrigation/agricultural wells, irrigated crops, pesticide/fertilizer/petroleum and transfer areas. The following activities have been associated with detected contaminants: known contaminant plumes, dry cleaners and irrigated crops.

Drinking water supplied by CVWD's wells to our communities complies with state and federal drinking water quality standards.

Definitions & Abbreviations

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

MCL or Maximum Contaminant Level — The highest level of a contaminant that is allowed in drinking water. Primary MCLs are set as close to public health goals or maximum contaminant level goals as economically and technologically feasible. Secondary MCLs are set to protect the odor, taste and appearance of drinking water.

MCLG or Maximum Contaminant Level Goal — Level of a contaminant in drinking water below which there is no known or expected risk to health. MCLGs are set by the U.S. Environmental Protection Agency.

mg/L — Milligrams per liter (parts per million). One mg/L is equivalent to 1 second in 11.6 days.

MRDL or 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 or 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.

N/A — Not applicable. The government has not set a Public Health Goal, Maximum Contaminant Level Goal or Maximum Contaminant Level for this substance.

ND — None detected

NL or Notification Level — Health based advisory level established by the California Department of Public Health for chemicals in drinking water that lack maximum containment levels (MCLs) as stated by CDPH.

NTU — Nephelometric turbidity units (measurement of suspended material)

pCi/L — picoCuries per liter. For uranium, one pCi/L is equivalent to one second in 21.1 years.

PDWS or Primary Drinking Water Standard — MCLs and MRDLs for contaminants that affect health along with their monitoring and reporting requirements, and water treatment requirement.

PHG or Public Health Goal — Level of a contaminant in drinking water below which there is no known or expected risk to health. Public Health Goals are set by the California Environmental Protection Agency.

Secondary Drinking Water Standard — Based on aesthetics, these secondary maximum contaminant levels have monitoring and reporting requirements specified in regulations.

ug/L — Micrograms per liter (parts per billion). One ug/L is equivalent to 1 second in 31.7 years.

uS/cm — Microsiemens per centimeter

CVWD 2011 Domestic Water Quality Summary

(Covering the reporting period January - December 2010)

CVWD analyzed more than 15,000 water samples last year to ensure that your drinking water meets the state and federal standards. Every year, the district is required to analyze a select number of these samples for more than 100 regulated and unregulated substances.

This table lists those substances that were detected in the district's five service areas. Gray boxes indicate no substance was detected or existing data is no longer reportable. The data on the chart, which summarizes results of the most recent monitoring completed between 2002 and 2010, shows

that CVWD continues to deliver drinking water that meets state and federal water quality standards.

To read this table: First, determine in which service area you live (columns 4-8). Then move down the column, comparing the detection level of each chemical or other contaminant with the Public Health Goal, Maximum Contaminant Level Goal and Maximum Contaminant Level (columns 2-3).

For example, if you live in La Quinta and want to know the level of fluoride detected in your service area, you would look down the Cove Communities column and stop at the fluoride row. The average

fluoride level in that service area is 0.6 mg/L with the range of results varying between 0.1 mg/L and 1.0 mg/L.

Compare these values to the Maximum Contaminant Level in Column 3. Fluoride levels in this water comply with the Maximum Contaminant Level of 2.0 [mg/L]. The range can show a level above the Maximum Contaminant Level and still comply with the drinking water standard when compliance is based on average levels found in each water source.

1	2	3	4	5	6	7	8	9
Detected parameter, units	PHG or (MCLG)	Primary or (secondary) MCL	Cove Communities ⁽¹⁾ Range (Average)	Indio Hills, Sky Valley & areas around Desert Hot Springs Range (Average)	Mecca, Bombay Beach, North Shore & Hot Mineral Spa Range (Average)	Desert Shores, Salton Sea Beach & Salton City Range (Average)	Thermal, Valerie Jean & Oasis Range (Average)	Major Source(s)
Aluminum, ug/L	600	1,000 (200)	ND-140 (ND)					Erosion of natural deposits
Arsenic, ug/L	0.004	10	ND-5.7 (ND)		ND-30 (3.7) ⁽⁷⁾		ND-5.1 (ND)	Erosion of natural deposits
Boron, mg/L ⁽²⁾	N/A	NL=1.0				0.3-0.4 (0.4)		Erosion of natural deposits
Chloride, mg/L	N/A	(500, 600) ⁽⁸⁾	6.5-115 (16)	13-25 (18)	40-55 (46)	230-350 (280)	20-43 (28)	Leaching from natural deposits
Chlorine (as Cl ₂), mg/L ⁽³⁾	MRDLG 4	MRDL 4.0	ND-1.4 (0.3)	0.1-0.7 (0.3)	ND-1.3 (0.3)	ND-1.1 (0.4)	ND-0.3 (0.2)	Result of drinking water chlorination
Chromium, ug/L	(100)	50	ND-22 (ND)	15-19 (17)			ND-24 (12)	Erosion of natural deposits
Chromium VI, ug/L ⁽²⁾	N/A	N/A	2.4-18 (8.4)	9.1-19 (15)			ND-21 (10)	Erosion of natural deposits
Copper, mg/L ⁽⁴⁾ [homes tested/ sites exceeding AL]	0.3	AL=1.3	0.12 [53/ 0]	0.14 [21/ 0]		0.11 [23/ 0]		Internal corrosion of household plumbing
Copper, mg/L	N/A	(1.0)	ND-0.2 (ND)					Erosion of natural deposits
Fluoride, mg/L	1	2.0	0.1-1.0 (0.6)	0.4-0.8 (0.6)	0.9-1.2 (1.0)	0.7-1.6 (1.2)	0.6-0.9 (0.7)	Erosion of natural deposits
Gross alpha particle activity, pCi/L	(0)	15	ND-11 (3.6)	3.5-14 (7.5)	ND-3.0 (ND)	ND-3.9 (ND)	ND-4.2 (ND)	Erosion of natural deposits
Hardness (as CaCO ₃), mg/L	N/A	N/A	23-300 (120)	120-200 (170)	15-17 (16)	200-290 (240)	11-57 (35)	Erosion of natural deposits
Haloacetic acids, ug/L ⁽³⁾	N/A	60		1.4				By-product of drinking water chlorination
Iron, ug/L	N/A	(300)	ND-230 (ND)					Leaching from natural deposits
Foaming Agents (MBAS), mg/L	N/A	(0.5)	ND-0.09 (ND)					Municipal and industrial waste discharges
Nitrate (as NO ₃), mg/L	45	45	ND-40 (7.0)	ND-5.0 (3.6)		4.7-6.6 (5.3)	ND-3.0 (ND)	Leaching of fertilizer, animal waste, natural deposits
pH, units	N/A	N/A	7.3-8.4 (7.8)	7.6-8.0 (7.8)	6.9-8.7(8.0)	7.6-8.0 (7.8)	7.0-7.8 (7.5)	Physical characteristic
Sodium, mg/L	N/A	N/A	17-86 (28)	58-86 (69)	46-53 (48)	220-260 (230)	42-45 (44)	Erosion of natural deposits
Specific conductance, uS/cm	N/A	(1,600, 2,200) ⁽⁸⁾	240-920 (380)	570-820 (680)	270-290 (280)	1,500-2,000 (1,700)	240-340 (290)	Substances that form ions when in water
Sulfate, mg/L	N/A	(500, 600) ⁽⁸⁾	13-190 (40)	150-220 (170)	ND-1.9 (0.6)	200-280 (250)	1.4-43 (22)	Leaching from natural deposits
Tetrachloroethylene (PCE), ug/L	0.06	5	ND-0.6 (ND)					Discharge from dry cleaners and auto shops
Total Coliform bacteria, positive samples/month	(0)	more than 5% ⁽⁵⁾ or more than 1 ⁽⁶⁾	ND-1% (ND)					Naturally present in the environment
Total dissolved solids, mg/L	N/A	(1,000, 1,500) ⁽⁸⁾	150-550 (230)	360-540 (440)	140-170 (150)	850-1,200 (1,000)	130-210 (180)	Leaching from natural deposits
Total trihalomethanes, ug/L ⁽³⁾	N/A	80	1.8-3.6 (4.0)	12	0.8	7.1	5.0	By-product of drinking water chlorination
Turbidity, NTU	N/A	(5)	ND-2.6 (ND)		ND-0.2 (ND)	ND-0.6 (0.2)	ND-0.3 (0.2)	Leaching from natural deposits
Uranium, pCi/L	0.43	20	ND-12 (4.5)	5.4-11 (7.5)	2.0	2.4-4.2 (3.0)	2.6-5.0 (3.8)	Erosion of natural deposits
Vanadium, ug/L ⁽²⁾	N/A	NL=50	6.2-39 (15)	9.8-26 (15)		5.8-24 (17)	ND-29 (14)	Erosion of natural deposits

Footnotes: (1) Includes the communities of Rancho Mirage, Thousand Palms, Palm Desert, Indian Wells, La Quinta and portions of Bermuda Dunes, Cathedral City, Indio and Riverside County.

(2) Unregulated contaminants are those for which EPA and the California Department of Public Health have not established drinking water standards. The purpose of unregulated contaminant monitoring is to assist both regulatory agencies in determining the occurrence of unregulated contaminants in drinking water and whether

future regulation is warranted.

(3) The reported average represents the highest running annual average based on distribution system monitoring.

(4) Reported values are 90th percentile levels for samples collected from faucets in water user homes.

(5) Systems that collect 40 or more samples per month.

(6) Systems that collect less than 40 samples per month.

(7) Although an individual sample may exceed the MCL, compliance is based on a running annual average. The average reported is the highest running annual average for distributed water.

(8) Values listed are the upper and short-term consumer acceptance contaminant levels.