



2013 Consumer Confidence Report

June 2014

We test the drinking water quality for many constituents as required by State and Federal Regulations. This report shows the results of our monitoring for the period of January 1 - December 31, 2013.

Este informe contiene información muy importante sobre su agua potable. Tradúzcalo ó hable con alguien que lo entienda bien.

Water Sources and Drinking Water Source Assessment information: Crestline Village Water District gets its water from two types of sources: **1) Local Ground Water:** A limited amount of ground water is obtained from 22 separate wells within the District. **2) Imported Surface Water:** Imported surface water is purchased from the Crestline-Lake Arrowhead Water Agency. Crestline-Lake Arrowhead Water Agency buys surface water at Silverwood Lake, treats it and then pumps it up the mountain for use by the District and other water users. Depending on the location of your property, you may receive a blend of local and imported water, or 100% local or imported water.

The District has prepared Drinking Water Source Assessments for all of its local ground water sources. The source assessments were completed in 2002 and are available for review at the District's office.

Board Meetings: The District is governed by a locally elected Board of Directors, which meets in a public meeting on the third Tuesday of each month at 3:00 pm at the District's office located at 777 Cottonwood Drive, Crestline, California.

Terms Used in this Report:

MCL or Maximum Contaminant Level: The highest level of a contaminant that is allowed in drinking water. Primary MCLs are set as close to the PHGs (or MCLGs) as is economically and technologically feasible. Secondary MCLs are set to protect the odor, taste, and appearance of drinking water.

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

SDWS or Secondary Drinking Water Standards: MCLs for contaminants that affect taste, odor, or appearance of the drinking water. Contaminants with SDWSs do not affect the health at the MCL levels.

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

MCLG or Maximum Contaminant Level Goal: The 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 (USEPA).

MRDL or Maximum Residual Disinfection 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 Residential 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.

TU or Nephelometric Turbidity Units: A measurement of the clarity of water. Turbidity is the measurement of particles suspended in water. Turbidity results that meet performance standards are considered to be in compliance with filtration requirements.

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

ND = Not detectable at testing limit.

ppm = Parts per million or milligrams per liter (mg/L) **ppt** = Parts per trillion or nanograms per liter (ng/L)

ppb = Parts per billion or micrograms per liter (ug/L) **pCi/L** = Picocuries per liter (a measure of radiation)

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.

In order to ensure that tap water is safe to drink, USEPA and the California 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.

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 storm water 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 storm water 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 storm water runoff, agricultural application, and septic systems.
- **Radioactive contaminants**, which can be naturally occurring or be the result of oil and gas production and mining activities.

Additional Drinking Water Information:

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

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).

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. Crestline Village 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 to 2 minutes before using water for drinking and cooking. 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>.

For more information, please contact **Clark Stephens** at (909) 338-1727 Ext. 235

or write to us at: **Crestline Village Water District**

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The following tables list all of the drinking water contaminants that were detected during the most recent sampling for the constituent. The presence of these contaminants in the water does not necessarily indicate that the water poses a health risk. The Department 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. Some of the data, though representative of the water quality, is more than one year old.

SAMPLING RESULTS SHOWING THE DETECTION OF COLIFORM BACTERIA							
Microbiological Contaminants	Highest No. of Detections	Violation	MCL		MCLG	Typical Source of Contaminant	
Total Coliform Bacteria	(In a Month) 0	No	More than 1 sample in a month with a detection		0	Naturally present in the environment.	
Fecal Coliform or <i>E. coli</i> (at the ground water source)	(In a year) 0	No	A routine sample and a repeat sample detect total coliform and either sample also detects fecal coliform or <i>E. coli</i>		0	Human or animal fecal waste.	
SAMPLING RESULTS SHOWING THE DETECTION OF LEAD AND COPPER							
Lead and Copper	No. of samples collected	90 th percentile level detected	No. Sites exceeding AL	AL	MCLG	Typical Source of Contaminant	
Lead (ppb)	20	ND	0	15	0.2	Internal corrosion of household plumbing systems; discharges from industrial manufacturers; erosion of natural deposits.	
Copper (ppm)	20	0.51	0	1.3	0.3	Internal corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives.	
SAMPLING RESULTS FOR SODIUM AND HARDNESS							
Chemical or Constituent	Ground Water		Surface Water		MCL	PHG or MCLG	Typical Source of Contaminant
	Level Detected	Range of Detections	Level Detected	Range of Detections			
Sodium (ppm)	12.70	10 – 21	69.13	56 – 82	N/A	N/A	“Sodium” refers to the salt present in the water and is generally naturally occurring.
Hardness (ppm)	80.40	56 - 140	132.06	98 – 310	N/A	N/A	“Hardness” is the sum of polyvalent cations present in the water, generally magnesium and calcium. The cations are usually naturally occurring.
CONTAMINANTS WITH A PRIMARY DRINKING WATER STANDARD							
Aluminum (ppb)	ND	ND	13	0 - 98	200	60	Erosion from natural deposits; residue from some surface water treatment processes.
Fluoride (ppm)	0.09	ND - 0.20	0.06	0 - 0.14	2	1	Erosion of natural deposits.
Lead (ppb)	See Above	See Above	.61	0 – 9.7	15	2	Internal corrosion of household plumbing systems; discharges from industrial manufacturers; erosion of natural deposits.
Nitrate (ppm)	7.29	ND – 31	1.69	0 – 4.2	45	45	Erosion of natural deposits; runoff and leaching from septic tanks and sewage.
Gross Alpha (pCi/L)	4.03	1.55 – 10.45	-	-	15	None	Erosion of natural deposits.
Uranium (pCi/L)	9.22	1.65 – 18.08	-	-	20	0.5	Erosion of natural deposits.
TTHM (Total Trihalomethanes) (ppb) **	43.80	23.5 – 53.60	21	2.6 – 77.6	80	N/A	By-product of drinking water disinfection.
Haloacetic Acids (ppb) **	6.32	1.90 – 9.10	2.2	0 – 10.8	60	N/A	By-product of drinking water disinfection.
Turbidity (NTU) *	See below		.04	0 – 0.2	5	N/A	Soil runoff.
Turbidity Performance Standard: at least 95% of samples must be less than 0.3 NTU.							
CONTAMINANTS WITH A SECONDARY DRINKING WATER STANDARD							
Chloride (ppm)	18.18	11.3 – 26	91.38	73 - 120	500	Leaching from natural deposits; seawater influence.	
Manganese (ppb)	ND	ND	-	-	50	Leaching from natural deposits.	
Sulfate (ppm)	21	21 – 21	51.56	41 – 68	500	Leaching from natural deposits.	
Specific Conductance (uS/cm)	215	170 – 330	-	-	1600	Substances that form ions when in water.	
Total Dissolved Solids (ppm)	155	128 – 208	300	220 – 350	1000	Leaching from natural deposits.	
Foaming Agents (MBAS) (ppm)	-	0.1 – <.10	-	-	500	Municipal and industrial waste discharges.	
Odor – Threshold (Ton)	1.04	1 – 2.33	1	1 – 1	3	Naturally-occurring organic materials.	
Iron (ppb)	-	-	17.5	0 - 280	300	Leaching from natural deposits; industrial wastes.	
Zinc (ppb)	2.6	ND – 52	4.94	0 - 79	5000	Leaching from natural deposits.	
Turbidity (NTU)*	0.12	<0.1 – 0.83	See above		5	Soil runoff.	
UNREGULATED CONTAMINANTS							
Boron (ppb)	ND	ND	150.63	110 – 220	1,000	Erosion of natural deposits.	
Vanadium (ppb)	ND	ND	1.35	0 – 6.3	50	Erosion of natural deposits.	
pH	6.95	6.9 - 7.1	8	7.8 – 8.2	6.5 - 8.5		

***Turbidity** is a measurement of the cloudiness of water and is a good indicator of water quality and filtration performance. Turbidity results which meet performance standards are considered to be in compliance with filtration requirements.

The Range of Levels Detected for **Total Trihalomethanes and **Haloacetic Acids** includes the IDSE sample sites, as required by the Federal EPA Stage 2 D/DBPR.