

CALAVERAS PUBLIC UTILITY DISTRICT

Annual Consumer Confidence Report For the Reporting Period January 1, 2016 to December 31, 2016

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

We are pleased to present to you this year's Annual Consumer Confidence Report. This report is designed to inform you about the quality of water and services we deliver to you every day. Our constant goal is to provide you with a safe and dependable supply of drinking water. We want you to understand the efforts we make to continually improve the water treatment process and protect our water resources. We are committed to ensuring the quality of your water. Our water source is the South Fork of the Mokelumne River. From there, the water is pumped to the Jeff-Davis Reservoir located near the town of Rail Road Flat.

We have a source water assessment available from our office that provides more information such as potential sources of contamination. An assessment of the drinking water source for the Calaveras Public Utility District water system was completed in May 2001. The source is considered most vulnerable to the following activities: managed forests, recent forest burns, and storm drain discharge. A copy of the complete assessment is available at the Calaveras Public Utility District office, 506 W. St Charles, San Andreas, CA 95249 or at the State Water Resources Control Board, Division of Drinking Water, 31 E. Channel Street, Room 270, Stockton, CA 95202 or you may request a summary of the assessment be sent to you by contacting Calaveras Public Utility District office at (209) 754-9442 or the SWRCB-Division of Drinking Water at (209) 948-7696.

If you have any questions about this report or questions concerning your water utility, please contact District Manager Donna Leatherman at (209) 754-9442, or by mail, write to P.O. Box 666, San Andreas, CA 95249. "I'm pleased to report that our drinking water meets all federal and state requirements," states Donna Leatherman, District Manager. We want our valued customers to be informed about their water utility. If you want to learn more, please attend any of our regularly scheduled Board of Director's meetings. They are held on the second Tuesday of every month at 506 W. St Charles, San Andreas at 7:00 p.m.

Calaveras Public Utility District routinely monitors for contaminants in your drinking water according to Federal and State laws. The tables show the results of our monitoring for the period of January 1st to December 31st, 2016. For some of the regulated contaminants, Calaveras Public Utility District is allowed to monitor less often than once a year. The most recent testing done in accordance with the regulations has been used.

TERMS USED IN THIS REPORT

Maximum Contaminant Level (MCL): 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.

Maximum Contaminant Level Goal (MCLG): 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).

Public Health Goal (PHG): 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.

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.

Maximum Residual Disinfectant Level Goal ([MDRL]G): The level of a drinking water disinfectant below which there is no known or expected risk to health. [MDRL]Gs do not reflect the benefits of the use of disinfectants to control microbial contaminants.

Primary Drinking Water Standards (PDWS): MCLs and [MDRL]s for contaminants that affect health along with their monitoring and reporting requirements, and water treatment requirements.

Secondary Drinking Water Standards (SDWS): 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.

Treatment Technique (TT): A required process intended to reduce the level of a contaminant in drinking water.

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

Variations and Exemptions: Department permission to exceed an MCL or not comply with a treatment technique under certain conditions.

ND: not detectable at testing limit

ppm: parts per million or milligrams per liter (mg/L)

ppb: parts per billion or micrograms per liter (µg/L)

ppt: parts per trillion or nanograms per liter (ng/L)

ppq: parts per quadrillion or picogram per liter (pg/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.

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, agricultural application, 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 U.S. Environmental Protection Agency (USEPA) and the State Water Resources Control Board (State Board) prescribe regulations that limit the amount of certain contaminants in water provided by public water systems. State Board regulations also establish limits for contaminants in bottled water that provide the same protection for public health.

Tables below 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 State Board allows us to monitor for certain contaminants less than once per year because the concentrations of these contaminants do not change frequently. Some of the data, though representative of the water quality, are more than one year old. Any violation of an AL, MCL, MRDL, or TT is asterisked. Additional information regarding the violation is provided later in this report.

SAMPLING RESULTS SHOWING THE DETECTION OF COLIFORM BACTERIA					
Microbiological Contaminants (complete if bacteria detected)	Highest No. of Detections	No. of months in violation	MCL(AL)[MRDL] TT, as noted	MCLG	Typical Source of Bacteria
Total Coliform Bacteria (state Total Coliform Rule)	(In a mo.) 1	0	1 positive monthly sample	0	Naturally present in the environment
Fecal Coliform or <i>E. coli</i> (state Total Coliform Rule)	(In the year) 2016 0	0	A routine sample and a repeat sample are total coliform positive, and one of these is also fecal coliform or <i>E. coli</i> positive	0	Human and animal fecal waste
<i>E. coli</i> (federal Revised Total Coliform Rule)	(from 4/1/16- 12/31/16) 0	0	See Footnote (a)	0	Human and animal fecal waste

(a) Routine and repeat samples are total coliform-positive and either is *E. coli*-positive or system fails to take repeat samples following *E. coli*-positive routine sample or system fails to analyze total coliform-positive repeat sample for *E. coli*.

SAMPLING RESULTS SHOWING THE DETECTION OF LEAD AND COPPER							
Lead and Copper (complete if lead or copper detected in the last sample set)	Sample Date	No. of samples collected	90 th percentile level detected	No. sites exceeding AL	AL	PHG	Typical Source of Contaminant
Lead (ppb)	1/2016	20	<0.004	0	15	0.2	Internal corrosion of household water plumbing systems; discharges from industrial manufacturers; erosion of natural deposits
Copper (ppm)	1/2016	20	0.14	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 (and reporting units)	Sample Date	Level Detected	Range of Detections	MCL	PHG (MCLG)	Typical Source of Contaminant
Sodium (ppm)	1/2016	3.4	n/a	none	none	Salt present in the water and is generally naturally occurring
Hardness (ppm)	1/2016	29	n/a	none	none	Sum of polyvalent cations present in the water, generally magnesium and calcium, and are usually naturally occurring

DETECTION OF CONTAMINANTS WITH A PRIMARY DRINKING WATER STANDARD						
Chemical or Constituent (and reporting units)	Sample Date	Level Detected	Range of Detections	MCL [MRDL]	PHG (MCLG) [MRDLG]	Typical Source of Contaminant
Fluoride (ppm)	1/2016	<0.10	n/a	2.0	1	Erosion of natural deposits; water additive which promotes strong teeth; discharge from fertilizer and aluminum factories
Nitrate (ppm)	1/2016	<0.04	n/a	10	10	Runoff and leaching from fertilizer use; leaching from septic tanks and sewage; erosion of natural deposits
Total Trihalomethanes (TTHM) (ppb)	1/2016	47.87	40.24-53.96	80	n/a	By-product of drinking water disinfection

Haloacetic Acids (HAA5) (ppb)	1/2016	36.05	27.00-47.20	60	n/a	Byproduct of drinking water disinfection
Chlorine (ppm)	1/2016	0.85	0.68-1.05	4.0	n/a	By-product of drinking water disinfection

DETECTION OF CONTAMINANTS WITH A SECONDARY DRINKING WATER STANDARD

Chemical or Constituent (and reporting units)	Sample Date	Level Detected	Range of Detections	MCL	PHG (MCLG)	Typical Source of Contaminant
Color (units)	1/2016	7.0	n/a	15	n/a	Naturally-occurring organic materials
Odor T.O.N. (units)	1/2016	<1.0	n/a	3	n/a	Naturally-occurring organic materials
Sulfate (ppm)	1/2016	1	n/a	500	n/a	Runoff/leaching from natural deposits; industrial wastes
Manganese	1/2016	<20	n/a	50	n/a	Leaching from natural deposits
Iron	1/2016	<100	n/a	300	n/a	Leaching from natural deposits
Turbidity (units)	1/2016	1	n/a	5	n/a	Soil runoff

Lead-specific Language for Community Water Systems: 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. CALAVERAS PUBLIC UTILITY 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 or 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 (1-800-426-4701) or at <http://www.epa.gov/lead>

For Systems Providing Surface Water as a Source of Drinking Water

SAMPLING RESULTS SHOWING TREATMENT OF SURFACE WATER SOURCES	
Treatment Technique ^(a) (Type of approved filtration technology used)	In-Line Filtration
Turbidity Performance Standards ^(b) (that must be met through the water treatment process)	Turbidity of the filtered water must: 1 – Be less than or equal to 0.1 NTU in 95% of measurements in a month. 2 – Not exceed 1.0 NTU at any time.
Lowest monthly percentage of samples that met Turbidity Performance Standard No. 1.	95
Highest single turbidity measurement during the year	0.434
Number of violations of any surface water treatment requirements	0

(a) A required process intended to reduce the level of a contaminant in drinking water.

(b) Turbidity (measured in NTU) 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.

Additional General Information on Drinking Water

“This Consumer Confidence Report (CCR) reflects changes in drinking water regulatory requirements during 2016. All water systems are required to comply with the state Total Coliform Rule. Beginning April 1, 2016, all water systems are also required to comply with the federal Revised Total Coliform Rule. The new federal rule maintains the purpose to protect public health by ensuring the integrity of the drinking water distribution system and monitoring for the presence of microbials (i.e., total coliform and E. coli bacteria). The U.S. EPA anticipates greater public health protection as the new rule requires water systems that are vulnerable to microbial contamination to identify and fix problems. Water systems that exceed a specified frequency of total coliform occurrences are required to conduct an assessment to determine if any sanitary defects exist. If found, these must be corrected by the water system.”

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).

CURRENT WATER CONSERVATION REQUIREMENTS

The following water conservation requirements are effective at all times are permanent, unless rescinded by the action of the Board of Directors. Violations of this section will be considered waste and an unreasonable use of water.

- a) No excessive water flow or runoff.
- b) No washing down hard or paved surfaces except when necessary to alleviate safety or sanitary hazards.
- c) Obligation to fix leaks, breaks or malfunctions.
- d) Re-circulating water required for water fountains and decorative water features.
- e) Using water to wash or clean a vehicle is prohibited, except by use of a bucket or a hose equipped with a shut-off nozzle.
- f) Drinking water served upon request only at eating and drinking establishments.
- g) Commercial lodging establishments must provide option to not launder linen daily.
- h) Restaurants are required to use water conserving dish wash spray valves.
- i) Effective January 1, 2015, all commercial conveyor car wash systems must have installed and operational re-circulating water systems.
- j) The District may limit or withhold the issuance of will serve letters which require new or expanded water service, except to protect the public health, safety and welfare.

CPUD now offers online payment options! Visit our website at www.cpubd.org for more details.