## **2019 Consumer Confidence Report**

Water System Name:	Cuyamaca Water District (3700074)				: 06/04/2020	)
We test the drinking wresults of our monitoring	1 0	•		U	0	This report shows the itoring data.
Type of water source(s	s) in use: Grou	ındwater froi	m Well 1, Well 2 a	nd Well 6		
Name & general locati	on of source(s):	Well 1 (3)	700074-001) Engin	eers, Well 2 (370	0074-005) Ara	ppahoe,
		Well 6 (3)	700074-006) Merz			
Drinking Water Source	e Assessment infor	mation:	On file with DEH			
Time and place of regu	larly scheduled bo	ard meeting	s for public particip		Ionday of the r	
				Cuy	amaca Restaura	111 <b>1.</b>

#### 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.

Ron Brown

For more information, contact:

**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 (U.S. EPA).

**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 (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.

**Primary Drinking Water Standards (PDWS):** MCLs and MRDLs 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.

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**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.

Variances and Exemptions: Permissions from the State Water Resources Control Board (State Board) to exceed an MCL or not comply with a treatment technique under certain conditions.

**Level 1 Assessment:** A Level 1 assessment is a study of the water system to identify potential problems and determine (if possible) why total coliform bacteria have been found in our water system.

**Level 2 Assessment:** A Level 2 assessment is a very detailed study of the water system to identify potential problems and determine (if possible) why an *E. coli* MCL violation has occurred and/or why total coliform bacteria have been found in our water system on multiple occasions.

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 byproducts 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. EPA and the State Board prescribe regulations that limit the amount of certain contaminants in water provided by public water systems. The U.S. Food and Drug Administration regulations and California law also establish limits for contaminants in bottled water that provide the same protection for public health.

Tables 1, 2, 3, 4, 5, and 6 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.

TABLE 1 – SAMPLING RESULTS SHOWING THE DETECTION OF COLIFORM BACTERIA							
Microbiological Contaminants (complete if bacteria detected)	Highest No. of Detections	No. of Months in Violation	MCL	MCLG	Typical Source of Bacteria		
Total Coliform Bacteria (state Total Coliform Rule)	(In a month)	1	1 positive monthly sample <sup>(a)</sup>	0	Naturally present in the environment		
Fecal Coliform or <i>E. coli</i> (state Total Coliform Rule)	(In the year)	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		
E. coli (federal Revised Total Coliform Rule)	(In the year)	0	(b)	0	Human and animal fecal waste		

<sup>(</sup>a) Two or more positive monthly samples is a violation of the MCL

<sup>(</sup>b) 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*.

of officers rains to analyze total contours positive repeat sample for 2, con-								
TABLE 2 – 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 <sup>th</sup> Percentile Level Detected	No. Sites Exceeding AL	AL	PHG	No. of Schools Requesting Lead Sampling	Typical Source of Contaminant
Lead (ppb)	2017	5	0.259 (90 <sup>th</sup> Percentile)	0	15	0.2	0	Internal corrosion of household water plumbing systems; discharges from industrial manufacturers; erosion of natural deposits
Copper (ppm)	2017	5	0.011 (90 <sup>th</sup> Percentile)	0	1.3	0.3	Not applicable	Internal corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives

	TABLE 3	– SAMPLING R	RESULTS FOR	SODIUM A	AND HARD	NESS
Chemical or Constituent (and reporting units)	Sample Date	Level Detected	Range of Detections	MCL	PHG (MCLG)	Typical Source of Contaminant
Sodium (ppm)	2018	10.185	8.87-11.5	None	None	Salt present in the water and is generally naturally occurring
Hardness (ppm)	2018	221	221	None	None	Sum of polyvalent cations present in the water, generally magnesium and calcium, and are usually naturally occurring
TABLE 4 – DET	TECTION O	OF CONTAMINA	ANTS WITH A	PRIMARY	DRINKING	G WATER STANDARD
Chemical or Constituent (and reporting units)	Sample Date	Level Detected	Range of Detections	MCL [MRDL]	PHG (MCLG) [MRDLG]	Typical Source of Contaminant
Nitrate (mg/L)	2019	0.29	0-0.58	10	10	Runoff and leaching from fertilizer use; leaching from septic tanks and sewage; erosion of natural deposits
Aluminum (mg/L)	2018	0.795	0-1.59	1	.06	Erosion of natural deposits; residue from some surface water treatment processes.
Copper (mg/L)	2018	0.0025	0.002-0.003	1	1.3 (mg/L)	Internal corrosion of household plumbing systems; leeching from wood preservatives.
Uranium (pCi/L)	2009	0.172	0-0.343	20	.43	Erosion of natural deposits.
Radium (pCi/L)	2017	0.385	0-0.770	5	0	Erosion of natural deposits.
Gross Alpha (pCi/L)	2016	4.95	3.8-6.1	15	0	Erosion of natural deposits.
Barium (mg/L)	2018	.0175	0035	1	2.0 mg/L	Discharge of oil drilling wastes and from metal refineries; erosion of natural deposits.
TABLE 5 – DETE	CTION OF	CONTAMINAN	NTS WITH A <u>S</u> I	ECONDAR	<u>Y</u> DRINKIN	IG WATER STANDARD
	Sample Date	Level Detected	Range of Detections	SMCL	PHG (MCLG)	Typical Source of Contaminant
Iron (ppb)*	2018	600	0-1200	300	N/A	Leeching from natural deposits; industrial wastes.
Manganese (ppm)	2018	13.23	.64-26	50	N/A	Leeching from natural deposits.
Turbidity (units)*	2015	8	0-16	5	N/A	Soil runoff.
Zinc (ppm)	2017/18	29.45	0-41	5	N/A	Runoff/leeching from natural deposits; industrial wastes.
Total dissolved solids (ppm)	2017	277.5	260-295	1000	N/A	Runoff/leeching from natural deposits.
Specific conductance (ms/cm)	2009	423.5	370-477	1600	N/A	Substances that form ions when in water; seawater influence.
Chloride (ppm)	2015/17	17	15-19	500	N/A	Runoff/leeching from natural deposits; seawater influence.
Color (units)	2015	4	3-5	15	N/A	Naturally occurring organic materials.
Sulfate (ppm)	2018	26.85	26.5-27.2	500	500 mg/L (proposed standard)	Runoff/leeching from natural deposits; industrial wastes.
	TABLE	6 - DETECTION	OF UNREGU	LATED CO	·	NTS
Chemical or Constituent (and reporting units)	Sample Date	Level Detected	Range of Detections	Notifica	ntion Level	Health Effects Language

None

### Additional General Information on 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 the water poses a health risk. More information about contaminants and potential health effects can be obtained by calling the U.S. EPA'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. U.S. 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 Drinking Water Hotline (1-800-426-4791).

Lead-Specific Language: 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. [ENTER WATER SYSTEM'S NAME HERE] 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. [OPTIONAL: If you do so, you may wish to collect the flushed water and reuse it for another beneficial purpose, such as 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 (1-800-426-4791) or at <a href="http://www.epa.gov/lead">http://www.epa.gov/lead</a>.

# Summary Information for Violation of a MCL, MRDL, AL, TT, or Monitoring and Reporting Requirement

VIOLATION OF A MCL, MRDL, AL, TT, OR MONITORING AND REPORTING REQUIREMENT						
Violation	Explanation	Duration	Actions Taken to Correct the Violation	Health Effects Language		
Iron MCL exceedance	Over MCL, all groundwater sources are naturally high.	Ongoing	None at this time	None, the iron MCL was set to protect you against unpleasant aesthetic affects		
Turbidity MCL exceedance	Over MCL, all groundwater sources are naturally high.	Ongoing	None at this time	Turbidity has no health effects. However, high levels of turbidity can interfere with disinfection and provide a medium for microbial growth.  Turbidity may indicate the presence of disease-causing organisms.  These organisms include bacteria, viruses, and parasites that can cause symptoms such as nausea, cramp, diarrhea, and associated headaches.		