

#### 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) or Public Health Goal (PHG):** The level of a contaminant in drinking water below which there is no known or expected risk to health. MCLGs are set by the USEPA. PHGs are set by the California EPA.

**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, reporting 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.

**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:** Department permission 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* MDL 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 (ug/L)

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

ppq: parts per quadrillion or picograms per liter (pg/L)

pCi/L: picocuries per liter (a measure of radiation)

# 2019 Consumer Confidence Report City of Anderson Main Water System

Some of the best water in the country is enjoyed right here in Northern California! With this in mind, we strive to provide you with a safe and dependable drinking water supply. We want you to understand the efforts we make to continually monitor our drinking water quality and to protect our water resources.

We regularly test our drinking water for many different constituents as required by State and Federal Regulations. This "Water Quality Report" includes those constituents that were detected in 2019 and may include earlier monitoring data.

Our drinking water is supplied by eight treated groundwater wells (Well 03A, 04, 07, 09, 10, 12, 14, & 15).

Our well sources were evaluated by the Division of Drinking Water in August 2002, to determine if there were possible contaminating activities that might compromise the quality of the water. At the time sources were considered vulnerable to activities from parks, high density housing, parking lots/malls, autobody shops, gas stations, roadway, highways, railways, photo processing/printing, confirmed leaking underground storage tanks, known

contaminant plumes, and funeral services/graveyards. There were no contaminants related to these activities detected in the water supply, however. There were detected contaminants of chromium, fluoride, and nitrate with possible sources being water supply wells, agricultural drainage, grazing, low density of septic systems located in the area, and sewer connection systems. A copy of the complete report is available at 364 Knollcrest Drive, Suite 101, Redding, CA 96002. You may also call 530-224-4861.

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 storm water 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 storm water 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 storm water 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 USEPA and the State Water Resources Control Board prescribe regulations that limit the amount of certain contaminants in water provided by public water systems. Board regulations also establish limits for contaminants in bottled water that must provide the same protection for public health.

Please note that 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.

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.

US 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).

*Este informe contiene información muy importante sobre su agua beber. Favor de comunicarse City of Anderson Public Works a 378-6636 para asistirlo en español.*

For questions or concerns about your drinking water you may attend one of our regularly scheduled meetings held at 1887 Howard St. or you may contact City of Anderson Public Works at 530-378-6636.



These tables show only the drinking water contaminants that were detected during the most recent sampling for each constituent. The State Water Resources Control 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 and explained below.

**TABLE 1 - SAMPLING RESULTS SHOWING THE DETECTION OF COLIFORM BACTERIA**

Microbiological Contaminants	Highest No. of detections (in a month)	No. of months in violation	MCL	MCLG	Typical Source of Bacteria
Total Coliform Bacteria (state Total Coliform Rule)	1	0	1 positive monthly sample (a)	0	Naturally present in the environment
Fecal Coliform or <i>E. coli</i> (state Total Coliform Rule)	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		Human and animal fecal waste
<i>E. coli</i> (federal Revised Total Coliform Rule)	0	0	(b)	0	Human and animal fecal waste

(a) Two or more positive monthly samples is a violation of the MCL

(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*.

**TABLE 2 - SAMPLING RESULTS SHOWING THE DETECTION OF LEAD AND COPPER**

Lead and Copper	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)	33	ND	1*	15	0.2	4	Internal corrosion of household water plumbing systems; discharges from industrial manufacturers; erosion of natural deposits
Copper (ppm)	33	0.249	None	1.3	0.3	Not Applicable	Internal corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives

\* 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. City of Anderson 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>.

**TABLE 3 - SAMPLING RESULTS FOR SODIUM AND HARDNESS**

Chemical or Constituent (and reporting units)	Sample Date	Well	Level Detected	Range of Detections	MCL (MRDL)	PHG (MCLG)	Typical Source of Contaminant
Sodium (ppm)	2016	7, 9, 10, 15	12	12 - 13			Salt present in the water and is generally naturally occurring
	2015	14	11		none	none	
	2012	3A, 12	13.3	12.7 - 13.9			
Hardness (ppm)	2016	7, 9, 10, 15	82	58 - 108	none	none	Sum of polyvalent cations present in the water, generally magnesium and calcium, and are usually naturally occurring
	2015	14	90				
	2012	3A, 12	70	54 - 85			

**TABLE 4 - DETECTION OF CONTAMINANTS WITH A PRIMARY DRINKING WATER STANDARD**

Chemical or Constituent (and reporting units)	Sample Date	Well	Level Detected	Range of Detections	MCL (MRDL)	PHG (MCLG) (MRDLG)	Typical Source of Contaminant
Nitrate (ppm)	2019	All	1.49	0.79 - 2.19	10	10	Runoff and leaching from fertilizer use; leaching from septic tanks and sewages; erosion of natural deposits
	2018	3A	ND				
Radium 228 (pCi/L)	2016	7	1.26		5	0.019	Erosion of natural deposits
	2015	9, 10, 12, 14, 15	1.46	0.30-2.85			
Fluoride (ppm)	2015	14	ND				Erosion of natural deposits; water additive which promotes strong teeth; discharge from fertilizer and aluminum factories
	2014	9, 12	0.1	0.1 - 0.1	2.0	1	
	2013	10	0.1				
	2011	3A, 7, 15	0.2	0.1 - 0.2			

**TABLE 5 - DETECTION OF CONTAMINANTS WITH A SECONDARY DRINKING WATER STANDARD**

Chemical or Constituent (and reporting units)	Sample Date	Well	Level Detected	Range of Detections	SMCL	PHG (MCLG)	Typical Source of Contaminant
Total Dissolved Solids (TDS) (ppm)	2016	12	146				Runoff/leaching from natural deposits
	2015	15	144				
	2014	7, 9, 10, 15	134	111 - 161	1000	N/A	
	2012	3A	130				
Specific Conductance (µS/cm)	2016	12	210				Substances that form ions when in water; seawater influence
	2015	14	233				
	2014	7, 9, 10, 15	216	171 - 265	1600	N/A	
	2011	3A	161				
Chloride (ppm)	2016	12	4.0				Runoff/leaching from natural deposits; seawater influence
	2015	14	3.5				
	2014	7, 9, 10, 15	4.6	4.2 - 7.3	500	N/A	
Sulfate (ppm)	2011	3A	2.7				Runoff/leaching from natural deposits; industrial wastes
	2016	12	6.65				
	2015	14	7.72				
	2014	7, 9, 10, 15	6.6	4.0 - 7.8	500	N/A	
	2011	3A	3.1				