

2019 Consumer Confidence Report

Water System Name: WEST ALMANOR M.W.C.

Report Date: _____

March 2020

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, 2019.

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

Type of water source(s) in use: According to SWRCB records, this Source is Groundwater. This Assessment was done using the Default Groundwater System Method.

Your water comes from 4 source(s): Well 03, Well 05, Well 06 and Well 07

Opportunities for public participation in decisions that affect drinking water quality: Regularly-scheduled water board or city/county council meetings are held at 947 Long Iron Drive every 3rd Wednesday of the month at **10 AM**

For more information about this report, or any questions relating to your drinking water, please call (530)258-2272

TERMS USED IN THIS REPORT

Maximum Contaminant Level (MCL): The highest level of contaminant that is allowed in drinking water. Primary MCLs are set as close to the PHGs (or MCLGs) as is economically 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 (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 the contaminants that affect health along with their monitoring and reporting requirements, and water treatment requirements.

Secondary Drinking Water Standards (SDWS): MCLs for the 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.

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

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

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

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

NTU: Nephelometric Turbidity Units

umhos/cm: micro mhos per centimeter

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 USEPA and the State Water Resource Control Board (State Water Board) prescribe regulations that limit the amount of certain contaminants in water provided by public water systems. State Water Board regulations 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 Water 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 MCL, AL or MRDL is highlighted. Additional information regarding the violation is provided later in this report.

Table 1 - SAMPLING RESULTS SHOWING THE DETECTION OF LEAD AND COPPER						
Lead and Copper (complete if lead or copper detected in last sample set)	Sample Date	90th percentile level detected	No. Sites Exceeding AL	AL	PHG	Typical Sources of Contaminant
Copper (mg/L)	5 (2018)	0.06	0	1.3	.3	Internal corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives

Table 2 - SAMPLING RESULTS FOR SODIUM AND HARDNESS						
Chemical or Constituent (and reporting units)	Sample Date	Average Level Detected	Range of Detections	MCL	PHG (MCLG)	Typical Sources of Contaminant
Sodium (mg/L)	(2014 - 2019)	8	5 - 11	none	none	Salt present in the water and is generally naturally occurring
Hardness (mg/L)	(2014 - 2019)	149	112 - 179	none	none	Sum of polyvalent cations present in the water, generally magnesium and calcium, and are usually naturally occurring

Table 3 - DETECTION OF CONTAMINANTS WITH A PRIMARY DRINKING WATER STANDARD						
Chemical or Constituent (and reporting units)	Sample Date	Average Level Detected	Range of Detections	MCL [MRDL]	PHG (MCLG) [MRDLG]	Typical Sources of Contaminant
Arsenic (ug/L)	(2014 - 2019)	ND	ND - 2	10	0.004	Erosion of natural deposits; runoff from orchards, glass and electronics production wastes
Gross Alpha (pCi/L)	(2018 - 2019)	2.023	ND - 3.18	15	(0)	Erosion of natural deposits.

Table 4 - DETECTION OF CONTAMINANTS WITH A SECONDARY DRINKING WATER STANDARD

Chemical or Constituent (and reporting units)	Sample Date	Average Level Detected	Range of Detections	MCL	PHG (MCLG)	Typical Sources of Contaminant
Chloride (mg/L)	(2014 - 2019)	7	4 - 8	500	n/a	Runoff/leaching from natural deposits; seawater influence
Specific Conductance (umhos/cm)	(2014 - 2019)	308	229 - 353	1600	n/a	Substances that form ions when in water; seawater influence
Sulfate (mg/L)	(2014 - 2019)	2.1	1.2 - 2.8	500	n/a	Runoff/leaching from natural deposits; industrial wastes
Total Dissolved Solids (mg/L)	(2014 - 2019)	165	140 - 180	1000	n/a	Runoff/leaching from natural deposits
Turbidity (NTU)	(2018 - 2019)	3.7	0.1 - 11.0	5	n/a	Soil runoff

Table 5 - DETECTION OF UNREGULATED CONTAMINANTS

Chemical or Constituent (and reporting units)	Sample Date	Average Level Detected	Range of Detections	Notification Level	Typical Sources of Contaminant
Boron (mg/L)	(2014 - 2019)	ND	ND - 0.1	1	Boron exposures resulted in decreased fetal weight (developmental effects) in newborn rats.
Vanadium (mg/L)	(2014 - 2019)	0.006	0.005 - 0.007	0.05	Vanadium exposures resulted in developmental and reproductive effects in rats.

Table 6 - ADDITIONAL DETECTIONS

Chemical or Constituent (and reporting units)	Sample Date	Average Level Detected	Range of Detections	Notification Level	Typical Sources of Contaminant
Calcium (mg/L)	(2014 - 2019)	24	17 - 29	n/a	n/a
Magnesium (mg/L)	(2014 - 2019)	22	17 - 26	n/a	n/a
pH (units)	(2014 - 2019)	7.8	7.4 - 8.1	n/a	n/a
Alkalinity (mg/L)	(2014 - 2019)	145	110 - 160	n/a	n/a
Aggressiveness Index	(2014 - 2019)	11.8	11.3 - 12.1	n/a	n/a
Langelier Index	(2014 - 2019)	-0.1	-0.5 - 0.3	n/a	n/a

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 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. Immunocompromised 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).

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 the service lines and home plumbing. *West Almanor Mutual Water Company* 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 or at <http://www.epa.gov/lead>.

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
Turbidity				Turbidity is Secondary Drinking Water Standards and has found 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, cramps, diarrhea and associated headaches.

2019 Consumer Confidence Report Drinking Water Assessment Information

Assessment Information

A source water assessment was conducted for WELL 03, Well 05, and WELL 06 of the West Almanor M.W.C. water system in July, 2002. A source water assessment was conducted for the WELL 07 of the West Almanor M.W.C. water system in January, 2003.

Well 03 - is considered most vulnerable to the following activities not associated with any detected contaminants:
Septic systems - high density [>1 /acre]

Well 05 - is considered most vulnerable to the following activities not associated with any detected contaminants:
Septic systems - high density [>1 /acre]

Well 06 - is considered most vulnerable to the following activities not associated with any detected contaminants:
Septic systems - high density [>1 /acre]

Well 07 - is considered most vulnerable to the following activities not associated with any detected contaminants:
Septic systems - high density [>1 /acre]

Discussion of Vulnerability

There have been no contaminants detected in the water supply for Well 05 and Well 07.

Due to the detection of Gross Alpha Particles, Well 03 and Well 06 are considered vulnerable to activities that may have contributed to or caused the release of Gross Alpha Particles. Gross Alpha Particles are naturally occurring and have no contaminating activity associated with them. Gross Alpha Particles were detected for Well 03 before December 2001 with results reaching up to .98 PCI/L compared to the MCL of 15.0 PCI/L; however it has been non-detected since December 2001. Gross Alpha Particles were detected for Well 06 before December 2001 with results reaching up to 2.7 PCI/L compared to the MCL of 15.0 PCI/L; however it has been non-detected since December 2001.

Due to the detection of Arsenic, Well 06 is considered vulnerable to activities that may have contributed to or caused the release of Arsenic. In particular, Arsenic is believed to be associated with runoff from orchards, glass and electronics production wastes and the erosion of natural deposits. Arsenic was detected for Well 06 before October 1999 with results reaching up to 3.0 U_g/L compared to the MCL of 50.0 U_g/L; however it has been non-detected since October 1999.

Acquiring Information

A copy of the complete assessment may be viewed at:
West Almanor M.W.C.
SingletonAuman PC
283 Main St.
Chester, CA 96020

You may request a summary of the assessment be sent to you by contacting:
Steve Watson
Assoc. Sanitary Engineer
(530) 224-4800