2019 Consumer Confidence Report

Water System Name:

Merquin School

Report Date:

04/10/20

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 and may include earlier monitoring data.

Este informe contiene información muy importante sobre su agua para beber. Favor de comunicarse Merquin School a (209) 985-4278 para asistirlo en español.

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Type of water source(s) in use:	Gr va	ndwater W				
Name & general location of source	e(s):	Well at	20316 West Third Ave. Ste	evinson, CA		
Drinking Water Source Assessme	nt inform	nation:	Completed in April of 20	002		
Time and place of regularly scheo	duled bo	ard meeting	gs for public participation:	Non	ne	
For more information, contact:	Trista	n Adams		Phone:	(209) 985-4278	
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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 PHGs are set by the California risk to health. 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.

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: State Board 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
- Organic chemical contaminants, including synthetic and volatile organic chemicals, that are by-products of industrial 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 Water Resources 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, and 5 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 an MCL, MRDL, AL, or TT is asterisked. Additional information regarding the violation is provided later in this

Microbiological Contaminants	Highest No. of	No. of Months in Violation	NG THE DETECTION O	MCLG	Typical Source of Bacteria Naturally present in the
Total Coliform Bacteria (State Total Coliform Rule)	(In a mo.)	0	1 positive monthly sample (a)	0	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

(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.

Lead and Copper (and reporting units)	Sample Date	No. of Samples Collected	90th Percentile Level Detected	No. Sites Exceeding AL	AL	PHG	AD AND COPPER Typical Source of Contaminant
Lead (ppb)	06/28/18	5	< 5	0	15	0.2	Internal corrosion of household water plumbing systems; discharges from industrial manufacturers; erosion of natural deposits
Copper (ppm)	06/28/18	5	< 0.05	0	1.3	0.3	Internal corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives

Chemical or Constituent (and reporting units)	Sample Date	Level Detected	Range of Detections	MCL	PHG (MCLG)	Typical Source of Contaminant
Sodium (ppm)	03/24/14	250		None	None	Salt present in the water and is generally naturally occurring
Hardness (ppm)	03/24/14	173		None		Sum of polyvalent cations present in the water, generally magnesium and calcium, and are usually naturally occurring

Chemical or Constituent (and reporting units)	Sample Date	Level Detected	Range of Detections	MCL	PHG (MCLG) [MRDLG]	ORINKING WATER STANDARD Typical Source of Contaminant
Arsenic (ppb)	03/16/18	6		10	0.004	Erosion of natural deposits; runoff from orchards; glass and electronics production wastes
Nitrate as Nitrogen (ppm)	03/15/19	2		10	10	Runoff and leaching from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits
Fluoride (ppm)	03/16/18	0.4		2	1	Erosion of natural deposits; water additive which promotes strong teeth; discharge from fertilizer and aluminum factories
Selenium (ppb)	03/16/18	6		50	30	Discharge from petroleum, glass and metal refineries; erosion of natural deposits; discharge from mines and chemical manufacturers; runoff from livestock lots (feed additive)
Gross Alpha (pCi/l)	12/18/15	5		15	0	Erosion of natural deposits
Uranium (pCi/l)	12/18/15	1		20	0.4	Erosion of natural deposits

Chemical or Constituent (and reporting units)	Sample Date	Level Detected	Range of Detections	SMCL	PHG (MCLG)	Typical Source of Contaminant	
Total Dissolved Solids (ppm)	03/24/14	791		1000	N/A	Runoff/leaching from natural deposits	
Specific Conductance (umho/cm)	03/24/14	1433		1600	N/A	Substances that form ions when in water seawater influence	
Chloride (ppm)	03/24/14	245		500	N/A	Runoff/leaching from natural deposits; seawater influence	
Sulfate (ppm)	03/24/14	52		500	N/A	Runoff/leaching from natural deposits' industrial wastes	
Color (unit)	03/24/14	3		15	N/A	Naturally-occurring organic materials	
Iron (ppb)	03/24/14	110		300	N/A	Leaching from natural deposits; industrial wastes	
Manganese (ppb)	2014	26	< 20 - 52*	50	N/A	Leaching from natural deposits	