## **2023 Consumer Confidence Report**

Water System Name:	Cardinale Estate Winery	Report Date: 05/15/2024
		s required by state and federal regulations. This report shows the ember 31, 2023 and may include earlier monitoring data.
	ormación muy importante sobre su agua c CA 94562 para asistirlo en español.	a para beber. Favor de comunicarse Cardinale Estate Winery a 7600 St.
Type of water source(s)	in use: Ground Water Well	
Name & general location	on of source(s): Well located in v	vineyard, 350 feet NE of Cardinale Administration Offices
Drinking Water Source	Assessment information: Jackson	on Family Wines records
Time and place of regul	larly scheduled board meetings for pu	ublic participation: NA
For more information, o	contact: Tyler Judson, Weeks Wa	ter Treatment Phone: (707) 823-3184
	TERMS USED	IN THIS REPORT
a contaminant that is a MCLs are set as close economically and techn are set to protect the ocwater.  Maximum Contamina a contaminant in drink known or expected risk Environmental Protectic Public Health Goal (I	nt Level (MCL): The highest level of allowed in drinking water. Primary se to the PHGs (or MCLGs) as is ologically feasible. Secondary MCLs dor, taste, and appearance of drinking and Level Goal (MCLG): The level of king water below which there is no to health. MCLGs are set by the U.S. on Agency (U.S. EPA).  PHG): The level of a contaminant in which there is no known or expected	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: Permissions from the State Water Resources Control Board (State Board) to exceed an MCL or not appeals with a treatment to sharing under certain conditions.
risk to health. PHGs ar Protection Agency. <b>Maximum Residual</b> highest level of a disi There is convincing evi	e set by the California Environmental  Disinfectant Level (MRDL): The infectant allowed in drinking water. dence that addition of a disinfectant is microbial contaminants.	comply with a treatment technique under certain conditions. <b>Level 1 Assessment</b> : 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. <b>Level 2 Assessment</b> : A Level 2 assessment is a very detailed study of the water system to identify potential problems and determine (if possible) why an <i>E. coli</i> MCL violation has occurred and/or why

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.

ppb: parts per billion or micrograms per liter (µg/L) ppt: parts per trillion or nanograms per liter (µg/L) ppq: parts per quadrillion or picogram per liter (pg/L) ppq: parts per quadrillion or picogram per liter (µg/L) ppq: parts per trillion or nanograms per liter (µg/L

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.

multiple occasions.

ND: not detectable at testing limit

total coliform bacteria have been found in our water system on

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

#### Contaminants that may be present in source water include:

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*, 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)	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)	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	(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*.

TABLE 2	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)	7/27/22	5	0	0	15	0.2	Not applicable	Internal corrosion of household water plumbing
								systems; discharges from
								industrial manufacturers; erosion of natural deposits
Copper (ppm)	7/27/22	5	0.22	0	1.3	0.3	Not applicable	Internal corrosion of household plumbing
								systems; erosion of natural
								deposits; leaching from

TABLE 3 – 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)	10/27/09	40	N/A	None	None	Salt present in the water and is generally naturally occurring
Hardness (ppm)	10/27/09	160	N/A	None	None	Sum of polyvalent cations present in the water, generally magnesium and calcium, and are usually naturally occurring

TABLE 4 – DETECTION OF CONTAMINANTS WITH A <u>PRIMARY</u> 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
*Arsenic (ug/L)	5/16/22	8.1	N/A	10	.004	Erosion of natural deposits; runoff from orchards; glass and electronics production wastes
Fluoride (mg/L)	5/16/22	0.12	N/A	2.0	1	Erosion of natural deposits; water additive which promotes strong teeth; discharge from fertilizer and aluminum factories
TABLE 5 – DETE	CTION OF	CONTAMINA	NTS WITH A <u>SE</u>	CONDAR	<u>Y</u> DRINKIN	G WATER STANDARD
Chemical or Constituent (and reporting units)	Sample Date	Level Detected	Range of Detections	SMCL	PHG (MCLG)	Typical Source of Contaminant
None						
TABLE 6 – DETECTION OF UNREGULATED CONTAMINANTS						
Chemical or Constituent (and reporting units)	Sample Date	Level Detected	Range of Detections	Notifica	tion 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. Cardinale Estate Winery 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>.

\*Arsenic: While your drinking water meets the federal and state standard for arsenic, it does contain low levels of arsenic. The arsenic standard balances the current understanding of arsenic's possible health effects against the cost of removing arsenic from drinking water. The U.S. Environmental Protection Agency continues to research the health effects of low levels of arsenic, which is a mineral known to cause cancer in humans at high concentrations and is linked to other health effects such as skin damage and circulatory problems.

The Cardinale Estate Winery water system is operated under contract by Weeks Water Treatment of Sebastopol.

To inquire about the system or to report trouble, please call (707) 823-3184.

# 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		
None						

### For Water Systems Providing Groundwater as a Source of Drinking Water

TABLE 7 – SAMPLING RESULTS SHOWING FECAL INDICATOR-POSITIVE GROUNDWATER SOURCE SAMPLES							
Microbiological Contaminants (complete if fecal-indicator detected)  Total No. of Detections  Sample Dates  MCL (MCLG) (MCLG) [MRDLG]  Typical Source of Contaminant							
E. coli	0		0	(0)	Human and animal fecal waste		
Enterococci	0		TT	N/A	Human and animal fecal waste		
Coliphage	0		TT	N/A	Human and animal fecal waste		

### Summary Information for Fecal Indicator-Positive Groundwater Source Samples, Uncorrected Significant Deficiencies, or Groundwater TT

SPECIAL NOTICE OF FECAL INDICATOR-POSITIVE GROUNDWATER SOURCE SAMPLE								
None								
	SPECIAL NOTICE FOR UNCORRECTED SIGNIFICANT DEFICIENCIES							
None								
	VIOLATION OF GROUNDWATER TT							
TT Violation	Explanation	Duration	Actions Taken to Correct the Violation	Health Effects Language				
None								