

2022 Consumer Confidence Report

Water System Name: Artesa Vineyards & Winery Report Date: January 13, 2022

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, 2022 and may include earlier monitoring data.

Este informe contiene información muy importante sobre su agua para beber. Favor de comunicarse Artesa Vineyards & Winery a 1345 Henry Road, Napa, CA 94559 707-254-2151 para asistirlo en español.

这份报告含有关于您的饮用水的重要讯息。请用以下地址和电话联系 Artesa Vineyards & Winery 以获得中文的帮助: 1345 Henry Road, Napa, CA 94559 707-254-2151

Ang pag-uulat na ito ay naglalaman ng mahalagang impormasyon tungkol sa inyong inuming tubig. Mangyaring makipag-ugnayan sa Artesa Vineyards & Winery, 1345 Henry Road, Napa, CA 94559 o tumawag sa 707-254-2151 para matulungan sa wikang Tagalog.

Báo cáo này chứa thông tin quan trọng về nước uống của bạn. Xin vui lòng liên hệ Artesa Vineyards & Winery tại 1345 Henry Road, Napa, CA 94559 707-254-2151 để được hỗ trợ giúp bằng tiếng Việt.

Tsaw ntawv no muaj cov ntsiab lus tseem ceeb txog koj cov dej haus. Thov hu rau Artesa Vineyards & Winery ntawm 1345 Henry Road, Napa, CA 94559 707-254-2151 rau kev pab hauv lus Askiv.

Type of water source(s) in use: Groundwater Wells (5) (all located northwest of the winery)

Name & location of source(s): LPA Reported Primary Source(Standby)-behind pump house up near storage tanks, Well #2-, Next to weigh station, Well #3(Standby)-just below storage tanks, Well #4(Standby)-fenced on right side of driveway near entrance, and Well #5-near lower cellar entrance on right side of road.

Drinking Water Source Assessment information: Steve Smith and Heritage Systems, Inc.

Time and place of regularly scheduled board meetings for public participation: Request meeting with Steve Smith

For more information, contact: Steve Smith Phone: (707) 254-2151

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 (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.

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)	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		Human and animal fecal waste
<i>E. coli</i> (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 <i>E. coli</i> -positive or system fails to take repeat samples following <i>E. coli</i> -positive routine sample or system fails to analyze total coliform-positive repeat sample for <i>E. coli</i> .					

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 th Percentile Level Detected	No. Sites Exceeding AL	AL	PHG	No. of Schools Requesting Lead Sampling	Typical Source of Contaminant
Lead (ppb)	09/08/22	5	ND	0	15	0.2		Internal corrosion of household water plumbing systems; discharges from industrial manufacturers; erosion of natural deposits
Copper (ppm)	09/08/22	5	.195	0	1.3	0.3	Not applicable	Internal corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives

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) Well 5	11/06/17	13	NA	None	None	Salt present in the water and is generally naturally occurring
Well 4	06/28/16	98				
Hardness (ppm) Well 4	05/11/21 11/06/17	90 200	NA	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 PRIMARY 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
Turbidity (NTU) Well 2	04/05/16	1.2	NA	TT	NA	Soil runoff
Well 4	07/07/20	21				
Well 5	10/13/20	9.3				
Gross Alpha (pCi/L) Well 1,2,3	11/06/17	3.41	3-5	15	0	Erosion of natural deposits
Well 4,5	02/01/18	4.2	3-3.82			
Aluminum (mg/L) Well 1	11/06/17	.018	NA	1	.6	Erosion of natural deposits; residue from some surface water treatment processes
Well 5	06/20/19	.019	NA			
Arsenic (ug/L) 2	Well	07/07/21	4.8	10	.004	Erosion of natural deposits; runoff from orchards; glass and electronics production wastes
		11/04/20	6.4			
	Well 1	11/04/20	7.6			
	Well 5					
Fluoride (mg/L) Well 1,5	11/04/20	.20	.15-.25	2	1	Erosion of natural deposits; water additive which promotes strong teeth; discharge from fertilizer and aluminum factories
Well 2	07/07/21	.18	NA			
Lead (ug/L) Well 5	11/04/20	5.5	NA	(AL=15)	.2	Internal corrosion of household water plumbing systems; discharges from industrial manufacturers; erosion of natural deposits
Nitrate (mg/L) Well 1	11/10/21	.44	.44	10	10	Runoff and leaching from fertilizer use; leaching from septic tanks and sewage; erosion of natural deposits
Well 2	11/03/22	.51	.51			
Bromate (ug/L) Well 3	01/13/20	5.8	NA	10	.1	Byproduct of drinking water disinfection

TABLE 5 – DETECTION OF CONTAMINANTS WITH A SECONDARY DRINKING WATER STANDARD

Chemical or Constituent (and reporting units)	Sample Date	Level Detected	Range of Detections	SMCL	PHG (MCLG)	Typical Source of Contaminant
Color (UNITS) Well 5	06/28/16	5	NA	15	NA	Naturally-occurring organic materials
Well 3	03/09/21	10	NA			
Well 1	05/12/22	5	NA			
Iron (ug/L) 4	Well 1	04/05/16	190	300	NA	Leaching from natural deposits; industrial wastes
	Well	06/28/16	250			
		10/03/22	82			
	Well 5	10/03/22	82			
	Well 3					
Manganese (ug/L) Well 4,5	11/06/17	320	NA	50	NA	Leaching from natural deposits
Well 3	04/13/21	210	NA			
Odor (TON) Well 4,5	06/28/16	1	NA	3	NA	Naturally-occurring organic materials

Turbidity (NTU)	Well 2	04/05/16	1.2	NA	TT	NA	Soil runoff
	Well 4	07/07/20	21	NA			
	Well 5	10/03/22	75	NA			
TDS (mg/L)	Well 1	05/12/22	130	160-180	1,000	NA	Runoff/leaching from natural deposits
	Well 3	03/09/21	210	210			
	Well 4	04/28/21	350	350			
Specific Cond (uS/cm)	Well 1,2	05/12/22	170	170-190	1,600	NA	Substances that form ions when in water; seawater influence
	Well 4,5	06/28/16	705	510-900			
	Well 3	03/09/21	220	220			
Chloride (mg/L)	Well 1,2	05/12/22	6.5	6.6-8.5	500	NA	Runoff/leaching from natural deposits; seawater influence
	Well 3	03/09/21	6.8	6.8			
	Well 4	04/28/21	18	18			
Sulfate (mg/L)	Well 1,2	05/12/22	6.3	5.8-11	500	NA	Runoff/leaching from natural deposits; industrial wastes
	Well 3	03/09/21	9	9			
	Well 4	04/28/21	79	79			
Zinc (mg/L)	Well 4	04/28/21	2.7	2.7	5	NA	Runoff/leaching from natural deposits; industrial wastes
	Well 1	05/12/22	.061	.061			

TABLE 6 – DETECTION OF UNREGULATED CONTAMINANTS

Chemical or Constituent (and reporting units)		Sample Date	Level Detected	Range of Detections	Notification Level	Health Effects Language
Boron (mg/L)	Well 4	11/04/20	.170	NA	HLR – 1.4	The contaminant may have an adverse effect on the health of persons.
Vanadium (ug/L)	Well 1,5 Well 2	11/04/20 07/07/21	12.6 14	6.2-19 14	15	The contaminant may have an adverse effect on the health of persons.

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. **Artesa Vineyards & 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 <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
Manganese at well 3, 4, 5	SCM on 11/06/17 & 04/13/21 of 320 mg/L & 210 mg/L	Continuous	Proper Treatment in place	Manganese exposures resulted in neurological effects. High levels of manganese in people have been shown to result in adverse effects to the nervous system.

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 [MRDL]	PHG (MCLG) [MRDLG]	Typical Source of Contaminant
<i>E. coli</i>	0	NA	0	(0)	Human and animal fecal waste
Enterococci	0	NA	TT	N/A	Human and animal fecal waste
Coliphage	0	NA	TT	N/A	Human and animal fecal waste

Summary Information for Federal Revised Total Coliform Rule Level 1 and Level 2 Assessment Requirements

Level 1 or Level 2 Assessment Requirement not Due to an *E. coli* MCL Violation

Coliforms are bacteria that are naturally present in the environment and are used as an indicator that other, potentially harmful, waterborne pathogens may be present or that a potential pathway exists through which contamination may enter the drinking water distribution system. We found coliforms indicating the need to look for potential problems in water treatment or distribution. When this occurs, we are required to conduct assessment(s) to identify problems and to correct any problems that were found during these assessments.

During the past year we were not required to conduct a Level 1 assessment(s).

During the past year we were not required to conduct a Level 2 assessment(s).