2024 Consumer Confidence Report

Water System Information

Water System Name: Volcano Community Service District

Report Date: 4/21/2025

Type of Water Source(s) in Use: Groundwater Well

Name and General Location of Source(s): Well 01, Well 02 and Cleveland Tunnel-Raw at 16131 Main St, Volcano Ca 95689.

Drinking Water Source Assessment Information: In 2022 assessment conducted by State Water Resources Board with Water Permit 01-10-22P-003.

Time and Place of Regularly Scheduled Board Meetings for Public Participation: Regular schedule Board Meeting are held the second Thursday of each even month at Armory Hall, Volcano CA at 7pm as posted at https://www.volcanocsd.gov/

For More Information, Contact: George Barnes (209) 256-5104.

About This Report

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 to December 31, 2024, and may include earlier monitoring data.

Terms Used in This Report

Term	Definition
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.
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).
Term	**Definition**

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.
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.
Regulatory Action Level (AL)	The concentration of a contaminant which, if exceeded, triggers treatment or other requirements that a water system must follow.
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.
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.
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)

Sources of Drinking Water and Contaminants that May Be Present in Source Water

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.

Regulation of Drinking Water and Bottled Water Quality

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.

About Your Drinking Water Quality

Drinking Water Contaminants Detected

Tables 1, 2, 3, 4, 5, 6, and 8 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

Complete if bacteria are detected.

Microbiological Contaminants	Highest No. of Detections	No. of Months in Violation	MCL	MCLG	Typical Source of Bacteria
E. coli	(In the year) [Enter No.]	[Enter No.]	(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. Sampling Results Showing the Detection of Lead and Copper

Complete if lead or copper is detected in the last sample set.

Lead and Copper	Sample Date	No. of Samples Collected	90^{th} Percentile Level Detected	No. Sites Exceeding AL	AL	PHG	Typical Source of Contaminant
Lead (ppb)	June 2023	5	0	0	15	0.2	Internal corrosion of household water plumbing systems; discharges from industrial manufacturers; erosion of natural deposits
Copper (ppm)	June 2023	5	0.25	0	1.3	0.3	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)	2022-2023	12	10-19	None	None	Salt present in the water and is generally naturally occurring
Hardness (ppm)	2022-2023	144	69-188	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
Fluoride (mg/L) [well 1, well 2 & Cleveland tunnel]	2022-2023	0.12	0.10-0.13	2	1	Erosion of natural deposits; water additive that promotes strong teeth; discharge from fertilizer and aluminum factories.
Nitrate as Nitrogen (ug/L) [well 1, well 2 & Cleveland tunnel]	2022-2023	0.11	ND-0.56	10	10	Runoff and leaching from fertilizer use: leaching from septic tanks and sewage; erosion of natural deposits.
Gross Alpha (pCi/L) [well 1, well 2 & Cleveland tunnel]	2021-2023	4.59	ND-10.2	15	0	Erosion of natural deposits.

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
Chloride (mg/L) [well 1, well 2 & Cleveland tunnel]	2022-2024	10	ND-27	500	N/A	Runoff/leaching from natural deposits; seawater influence.
Specific Conductance (uS/cm) [well 1, well 2 & Cleveland tunnel]	2022-2024	303	160-440	1600	N/A	Substances that form ions when in water; seawater influence.

Sulfate (mg/L) [well 1, well 2 & Cleveland tunnel]	2022-2024	5.9	2.3-9.2	500	N/A	Runoff/leaching from natural deposits industrial wastes.
Total Dissolved Solids [TDS] (mg/L) [well 1, well 2 & Cleveland tunnel]	2023	190	150-220	1000	N/A	Runoff/leaching from natural deposits.
Odor (TON) [well 1, well 2 & Cleveland tunnel]	2022-2024	2.6	ND-**8***	3	N/A	Natural occurring organic materials.
Color (units) [well 1, well 2 & Cleveland tunnel]	2023-2024	14	ND-**35***	15	N/A	Natural-occurring organic materials.
Color (units) *[well 1 & well 2 Monthly Treatment]*	1/26/24 2/27/24 3/22/24 4/22/24 5/24/24 11/25/24 12/16/24	8.28	ND-**25***	15	N/A	Natural-occurring organic materials.
Iron (ug/L) [well 1, well 2 & Cleveland tunnel]	2023-2024	**3167***	ND-**8100***	300	N/A	Leaching from natural deposits; industrial wastes.
Iron (ug/L) *[well 1 & well 2 Monthly Treatment]*	1/26/24 2/27/24 3/22/24 4/22/24 5/24/22 11/25/24 12/16/24	**1239***	130-**5500***	300	N/A	Leaching from natural deposits; industrial wastes.

Manganese (ug/L) [well 1, well 2 & Cleveland tunnel]	2023-2024	49	ND-**120***	50	N/A	Leaching from natural deposits.
Manganese (ug/L) *[well 1 & well 2 Monthly Treatment]*	1/26/24 2/27/24 3/22/24 4/22/24 5/24/22 11/25/24 12/16/24	**486***	ND-**3200***	50	N/A	Leaching from natural deposits.
Turbidity (NTU) [well 1, well 2 & Cleveland tunnel]	2023-204	**14***	0.61-**25***	5	N/A	Soil runoff.
Turbidity (NTU) *[well 1 & well 2 Monthly Treatment]*	1/26/24 2/27/24 3/22/24 4/22/24 5/24/22 11/25/24 12/16/24	**9.6***	ND-**31***	5	N/A	Soil runoff.

Table 6. Disinfection Byproducts, Disinfectant Residual and Disinfection Byproduct Precursor

Chemical or Constituent (and reporting units)	Sample Date	Level Detected	Range of Detection	Notification Level	Health Effects Language

Distribution System Chlorine Residual (mg/L)	2024 (Monthly)	0.81 RAA	0.50-0.95	MRDL=4.0 (as CL2)	Some people who use water containing chlorine well in excess of the MRDL could experience irritating effects to their eyes and nose. Some people who drink water containing chlorine well in excess of the MRDL could experience stomach discomfort.
Distribution System Total Trihalomethanes [TTHM] (ug/L) (CA0300016_DIST_800)	8/15/24 (Annual)	9.1	N/A	80	Some people who drink water containing trihalomethanes in excess of the MCL over many years may experience liver, kidney, or central nervous system problems, and may have an increased risk of getting cancer.
Distribution System Total Haloacetic Acids [HAA5] (ug/L) (CA0300016_DIST_800)	8/15/24 (Annual)	ND	N/A	60	Some people who drink water containing haloacetic acids in excess of the MCL over many years may have an increased risk of getting cancer.

Distribution System Total Trihalomethanes [TTHM] (ug/L) (CA0300016_DIST_801)	8/15/24	ND	N/A	80	Some people who drink water containing trihalomethanes in excess of the MCL over many years may experience liver, kidney, or central nervous system problems, and may have an increased risk of getting cancer.
Distribution System Total Haloacetic Acids [HAA5] (ug/L) (CA0300016_DIST_801)	8/15/24	ND	N/A	60	Some people who drink water containing haloacetic acids in excess of the MCL over many years may have an increased risk of getting cancer.

**** Any Violation of an Al, MCL, MRDSL, or TT is asterisked. Additional information regarding the violation is provided on the next page.***

Additional General Information on Drinking Water

Drinking water, including bottled water, may reasonably be expected to contain at least some small amounts of 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 people such as people with cancer undergoing chemotherapy, people 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).

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. ***Volcano CSD*** 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

Table 7. Violation of a MCL, MRDL, AL, TT or Monitoring Reporting Requirement

Violation	Explanation	Duration	Actions Taken to Correct Violation	Health Effects Language
Color MCL exceedance	In 2024, color level exceeded the MCL at well 002 and we are required to monitor your drinking water before and after treatment process.	On-time detection on 2/28/2024.	Routing monthly water testing at the treated source is required; however, not all testing was completed during 2024 due to “well pump raise”. One-time detection on 12/16/24 exceeded the MCL at the treatment source; therefore, it cannot be determined if missing months would’ve exceeded the MCL.	Aesthetic Concerns.
Iron MCL Exceedance	In 2024, the iron level exceeded the MCL at well 001 & well 002 and we are required to monitor your drinking water before and after treatment process.	One-time detection 12/16/24 for well 001 and 2/28/24 for well 002.	Routing monthly water testing at the treated source is required; however, not all testing was completed during 2024 due to “well pump raise”. 5 out of the 7 sampling months exceeded the MCL at the treatment source; therefore, it cannot be determined if missing months would’ve exceeded the MCL.	Aesthetic Concerns.

Manganese MCL Exceedance	In 2024, the manganese level exceeded the MCL at well 001 and we are required to monitor your drinking water before and after treatment process.	One-time detection on 12/16/24 for well 001.	Routing monthly water testing at the treated source is required; however, not all testing was completed during 2024 due to “well pump raise”. 2 out of the 7 sampling months exceeded the MCL at the treatment source; therefore, it cannot be determined if missing months would’ve exceeded the MCL.	Aesthetic Concerns.
Turbidity MCL Exceedance	In 2024, the turbidity level exceeded the MCL at well 001 and we are required to monitor your drinking water before and after treatment process.	One-time detection 12/16/24 for well 001 and 2/28/24 for well 002	Routing monthly water testing at the treated source is required; however, not all testing was completed during 2024 due to “well pump raise”. 3 out of the 7 sampling months exceeded the MCL at the treatment source; therefore, it cannot be determined if missing months would’ve exceeded the MCL.	Aesthetic Concerns.