Volcano Community Services District

2023

ANNUAL

WATER QUALITY

REPORT

2023 Consumer Confidence Report

Water System Name:

Volcano Community Services District

Report Date:

April 21, 2024

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, 2023 to December 31, 2023 and may include earlier monitoring data.

Este informe contiene información muy importante sobre su agua para beber. Favor de comunicarse Volcano Consumer Confidence Report | PO Box 72 Volcano, CA 95689| (775) 771-8768 para asistirlo en español.

Type of water source(s) in use:

Name & general location of source(s):

Cleveland Tunnel and Groundwater
Wells on Location

Drinking Water Source Assessment information:

In 2022 assessment conducted by State Water Resources Board with Water

Permit -01-10-22P-003.

SWS CCR Form

Revised February 2019

Copy can be obtained by contacting State Water Resources Board Dameon Flores, 209-948-7697.

Time and place of regularly scheduled board meetings for public participation:

Regular scheduled Board Meetings are held

The first Monday of each month at Armory Hall, Volcano, CA at 7 pm as posted at the website https://www.volcanocsd.specialdistrict.org/

For more information, contact:

Nick Lawson

Phone: (209) 304-7628

TERMS USED IN THIS REPORT

Maximum Contaminant Level (MCL): The highest level of Secondary Drinking Water Standards (SDWS): MCLs for a contaminant that is allowed in drinking water. Primary contaminants that affect taste, odor, or appearance of the drinking MCLs are set as close to the PHGs (or MCLGs) as is water. Contaminants with SDWSs do not affect the health at the economically and technologically feasible. Secondary MCLs MCL levels.

are set to protect the odor, taste, and appearance of drinking Treatment Technique (TT): A required process intended to reduce water. the level of a contaminant in drinking water.

Maximum Contaminant Level Goal (MCLG): The level of Regulatory Action Level (AL): The concentration of a contaminant a contaminant in drinking water below which there is no which, if exceeded, triggers treatment or other requirements that a known or expected risk to health. MCLGs are set by the U.S. water system must follow.

Environmental Protection Agency (U.S. EPA). Variances and Exemptions: Permissions from the State Water Public Health Goal (PHG): The level of a contaminant in Resources Control Board (State Board) to exceed an MCL or not drinking water below which there is no known or expected comply with a treatment technique under certain conditions.

risk to health. PHGs are set by the California Environmental Level 1 Assessment: A Level 1 assessment is a study of the water Protection Agency. system to identify potential problems and determine (if possible)

Maximum Residual Disinfectant Level (MRDL): The why total coliform bacteria have been found in our water system. highest level of a disinfectant allowed in drinking water. Level 2 Assessment: A Level 2 assessment is a very detailed study There is convincing evidence that addition of a disinfectant is of the water system to identify potential problems and determine (if necessary

for control of microbial contaminants, possible) why an E. coli MCL violation has occurred and/or why

Maximum Residual Disinfectant Level Goal (MRDLG): total coliform bacteria have been found in our water system on The level of a drinking water disinfectant below which there multiple occasions. is no known or expected risk to health. MRDLGs do not ND: not detectable at testing limit reflect the benefits of the use of disinfectants to control ppm: parts per million or milligrams per liter (mg/L) microbial contaminants. **ppb**: parts per billion or micrograms per liter $(\mu g/L)$

Primary Drinking Water Standards (PDWS): MCLs and ppt: parts per trillion or nanograms per liter (ng/L) MRDLs for contaminants that affect health along with their ppq: parts per quadrillion or picogram per liter (pg/L) monitoring and reporting requirements, and water treatment pCi/L: picocuries per liter (a measure of radiation) requirements.

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	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	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		
E. coli (Federal Revised Total Coliform Rule)	(In the year) 0	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 th Percentile Level Detected	No. Sites Exceeding AL	AL	PHG	No. of Schools Requesting Lead Sampling	Typical Source of Contaminant	
Lead (ppb)	June 2023	5	ND	None	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 Average of the two highest results	None	1.3	0.3	Not applicable	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
	(Cleveland Tunnel) 03/15/2023	7.2		None	None	
Sodium (ppm)	(Well #1) 12/27/2022	19		None	None	Salt present in the water and is
	(Well #2) 12/27/2022	10		None	None	generally naturally occurring
	(Cleveland Tunnel) 03/15/2023	69		None	None	Sum of polyvalent cations present in the water, generally magnesium and
Hardness (ppm)	(Well #1) 12/27/2022	188		None	None	calcium, and are usually naturally occurring
	(Well #2) 12/27/2022	174		None	None	occurring
TABLE 4 – DE	TECTION C	F CONTAMIN	ANTS 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)	(Cleveland Tunnel) 03/15/2023	0.10				Erosion of natural deposits; water additiv
	(Well #1) 12/27/2022	0.12		20	1	that promotes strong teeth; discharge from fertilizer and aluminum factories
	(Well #2) 12/27/2022	0.13		2.0	1	
Gross Alpha Particle Activity (pCi/L)	02/22/2022	10.2 ± 2.07	ND – 4.4	15	(0)	Certain minerals are radioactive and may emit a form of radiation known as alpha
Radium 228 Total Radium	08/09/2022	0.320 ± 0.917		5	N/A	radiation. Some people who drink water containing alpha emitters in excess of the MCL over many years may have an
	08/09/2022	0.300 ± 0.111		5	N/A	increased risk of getting cancer.
	(Cleveland Tunnel)					Infants below the age of six months who drink water containing nitrate in excess or
	06/21/2023	0.61				the MCL may quickly become seriously ill and, if untreated, may die because high
Nitrate (as Nitrogen, N) mg/L	(Well #1) 12/28/2023	ND				nitrate levels can interfere with the capacity of the infant's blood to carry oxygen. Symptoms include shortness of
·	(Well #2) 12/28/2023	ND		10	10	breath and blueness of the skin. High nitrate levels may also affect the oxygen- carrying ability of the blood of pregnant women.
Disinfection Byproducts, 1	Disinfectant	Residuals, and	Disinfection By	oroduct Pre	cursors	
Chlorine (mg/L)	Sampled Monthly 2023	0.88	0.5 – 1.3	[MRDL = 4.0 (as Cl ₂)]	[MRDLG = 4 (as Cl ₂)]	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

Chemical or Constituent (and reporting units)	Sample Date	Level Detected	Range of Detections	Notifica	tion Level	Health Effects Language
		6 – DETECTION	N OF UNREGU	LATED CO	NTAMINA	NTS
	(Well #2) 07/06/2021	13				
Sulfate (mg/L)	12/27/2022	9.2		500	NA	Runoff/leaching from natural deposits; seawater influence
	Tunnel) 03/15/2023 (Well #1)	2.3				
95	07/06/2021 (Cleveland					
	12/27/2022 (Well #2)	26				deposits; seawater influence
Chloride (mg/L)	Tunnel) 03/15/2023 (Well #1)	3.0		500	NA	Runoff/leaching from natural
And Agriculture of the Articles of the Article	(Cleveland	420				
(μS/cm)	(Well #2) 07/06/2021	440		1,600	NA	water; seawater influence
Specific Conductance	(Well #1) 12/27/2022	440				Substances that form ions when in
	(Cleveland Tunnel) 03/15/2023	160				
	(Well #2) 01/17/2023	200				
Total Dissolved Solids [TDS] (mg/L)	03/15/2023 (Well #1) 01/17/2023	220		1,000	NA	Runoff/leaching from natural deposits
	(Cleveland Tunnel)	150				
Odor – Threshold (T.O.N.)	03/15/2023	ND		3	NA	Naturally-occurring organic compounds
*Turbidity (NTU) (Finished Water)	Monthly 2023	3.6	0.26 – 15	5	NA	Soil runoff
*Manganese (ug/L) (Finished Water)	Monthly 2023	42	ND - 480	50	NA	Leaching from natural deposits
*Iron (ug/L) (Finished Water)	Monthly 2023	385	ND - 1500	300	NA	Leaching from natural deposits; industrial wastes
*Color (Units)	Monthly 2023	1.9	ND - 10	NA	NA	Naturally- occurring organic materials
Chemical or Constituent (and reporting units)	Sample Date	Level Detected	Range of Detections	SMCL	PHG (MCLG)	Typical Source of Contaminant
TABLE 5 – DET	ECTION OF	CONTAMINA!	NTS WITH A SI	ECONDAR	Y DRINKIN	cancer. IG WATER STANDARD
Acids) (ug/L)	08/22/2023	ND		, 00	IV/A	the MCL over many years may have an increased risk of getting
HAA5 (Sum of 5 Haloacetic	08/22/2023	ND		60	N/A	cancer. Some people who drink water containing haloacetic acids in excess
TTHMs (Total Trihalomethanes) (ug/L)	08/22/2023	ND		80	N/A	the MCL over many years may experience liver, kidney, or central nervous system problems, and may have an increased risk of getting
	00/00/200	3.50		00	NI/ 4	Some people who drink water containing trihalomethanes in excess of

Not Required	 	 NA	

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. Volcano Community Services District 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 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.

Infants and young children are typically more vulnerable to lead in drinking water than the general population. It is possible that lead levels at your home may be higher than at other homes in the community as a result of materials used in your home's plumbing. If you are concerned about elevated lead levels in your home's water, you may wish to have your water tested and/or flush your tap for 30 seconds to 2 minutes before using tap water. Additional information is available from the U.S. EPA Safe Drinking Water Hotline (1-800-426-4791).

Summary Information for Violation of a <u>MCL</u>, MRDL, AL, TT, or Monitoring and Reporting Requirement

Violation	Explanation	Duration	Actions Taken to Correct the Violation	Health Effects Language	
Iron	Exceeding Secondary Drinking Water MCLs	One-time detection on 11/15/2023 at 1500 ug/L	Monitoring Monthly	Aesthetic Concerns	
Manganese	Exceeding Secondary Drinking Water MCLs	One time detection on 12/28/2023 at 480 ug/L	Monitoring Monthly	Aesthetic Concerns	
Color	Aesthetic	Detected on 08/22/2023 at 10, 09/25/2023 at 5, & 11/15/2023 at 10 Color Units	Monitoring Monthly	Aesthetic Concerns	
Turbidity	Treatment Technique	Detected Monthly	Monitoring Monthly	Aesthetic Concerns	

For Water Systems Providing Groundwater as a Source of Drinking Water

FECA	TABLE 7 L INDICATOR-	– SAMPLING POSITIVE GRO			
Microbiological Contaminants (complete if fecal-indicator detected)	Total No. of Detections	Sample Dates	MCL [MRDL]	PHG (MCLG) [MRDLG]	Typical Source of Contaminant
E. coli	(In the year) None	Sampled Monthly	0	(0)	Human and animal fecal waste

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

			, or Groundwater 11	
SPECIAL	NOTICE OF FECAL IND	ICATOR-POSITIVE	GROUNDWATER SOURCE S	AMPLE
		None		
		yarinis is iy siya Allayad		
	SPECIAL NOTICE FOR U	NCORRECTED SIG	NIFICANT DEFICIENCIES	
		None		
	VIOLAT	TION OF GROUNDW	ATER TT	
TT Violation	Explanation	Duration	Actions Taken to Correct the Violation	Health Effects Language
None	managan James Sala Nas		is one with the second of the second	

Summary Information for Operating Under a Variance or Exemption

Iron have been found at levels that exceed the respective secondary MCLs in our source well. These secondary MCLs are set to protect you against unpleasant aesthetic effects such as color, taste, odor and the staining of plumbing fixtures (e.g., tubs and sinks), and clothing while washing. The high iron, manganese and color levels are due to leaching of natural deposits. Manganese exposures resulted in neurological effects. High levels of manganese in people have been shown to result in adverse effects to the nervous system.

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 <u>not required</u> to conduct any Level 1 assessment(s). <u>None</u> of the Level 1 assessment(s) were completed. In addition, we were <u>not required</u> to take corrective actions and we completed <u>none</u> of these actions.

During the past year <u>none</u> of the Level 2 assessments were required to be completed for our water system. <u>None</u> of the Level 2 assessments were completed. In addition, we were <u>not</u> required to take corrective actions and we completed <u>none</u> of these actions.

Level 2 Assessment Requirement Due to an E. coli MCL Violation

E. coli are bacteria whose presence indicates that the water may be contaminated with human or animal wastes. Human pathogens in these wastes can cause short-term effects, such as diarrhea, cramps, nausea, headaches, or other symptoms. They may pose a greater health risk for infants, young children, the elderly, and people with severely-compromised immune systems. We found *E. coli* bacteria, indicating the need to look for potential problems in water treatment or distribution. When this occurs, we are required to conduct assessment(s) identify problems and to correct any problems that were found during these assessments.

We were <u>not</u> required to complete a Level 2 assessment because we found <u>no</u> E. coli in our water system. In addition, we were <u>not</u> required to take corrective actions and we completed <u>none</u> of these actions.

Report prepared 04-21-2024 by Alpha Analytical Laboratories, Inc., using CCR Guidance for Water Suppliers available at, http://www.waterboards.ca.gov/drinking_water/ccrtlic/drinkingwater/CCR.html, employing due diligence with instructions given. Data contained in this report are based on the analytical results generated by Alpha Analytical Laboratories and its subcontract laboratories.

Revised February 2019