2022 Consumer Confidence Report

Water System Name:	Estero Mu	tual Water Company	Report Date:	June 29, 2023
We test the drinking wat results of monitoring for	ter quality for r the period o	all constituents as required f January 1-December 31, 2	by state and federal 022 as well as previ	regulations. This report shows the ous data where applicable.
Type of water source(s)	in use: Surf	ace water + three ground wa	ter wells.	
Name & location of sou		ervoir, Well 12, Well 13 and	l Well 14, Dillon Be	each, California
Drinking Water Source			California Departmen	
Time and place of regul Tomales Regional Hist	arly schedule tory Center, T	d board meetings for public omales, California.	participation: Mon	thly Board of Director Meetings,
For more information, c			Phone:	(707) 878-2400

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 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: Department 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 (ug/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 by-products 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 USEPA and the state Department of Public Health (Department) prescribe regulations that limit the amount of certain contaminants in water provided by public water systems. Department 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 Department 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.

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TABLE 1 –	SAMPLING	RESULTS	SHOWING TI	HE DETECT	ION OF C	OLIFORM 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	(In a mo.)	NONE	More than 1 sample in a month with a detection		0	Naturally present in the environment
Fecal Coliform or E. coli	(In the year) none	NONE	A routine sample and a repeat sample detect total coliform and either sample also detects fecal coliform or E. coli		0	Human and animal fecal waste
TABLE 2	- SAMPLIN	G RESUL	TS SHOWING	THE DETE	CTION OF	LEAD AND COPPER
Lead and Copper (complete if lead or copper detected in the last sample set)	No. of samples collected	90 th percentile level detected	No. sites exceeding AL	AL	PHG	Typical Source of Contaminant
Lead (ppb) 9/19/22 Samples taken from various households	5	0.00 mg/L	none	0.015 mg/L	2	Internal corrosion of household water plumbing systems; discharges from industrial manufacturers; erosion of natural deposits
Copper (ppm) 9/19/22 Samples taken from various households	5	0.09 mg/L	none	1.3 mg/L	0.17	Internal corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives
	TABLE 3	- SAMPL	NG RESULTS	FOR SODI	JM AND H	ARDNESS
Chemical or Constituent (and reporting units)	Sample Date	Level Detected	Range of Detections	MCL	PHG MCLG	Typical Source of Contaminant
Sodium (ppm) Well 12 Well 13 Well 14 Reservoir	06/22/21 06/22/21 06/22/21 06/23/22	41.0 ppm 44.0 ppm 38.0 ppm 69.0 ppm		none	none	Salt present in the water and is generally naturally occurring

Hardness (ppm) Well 12 Well 13 Well 14 Reservoir	06/22/21 06/22/21 06/22/21 06/23/22	98.0 ppm 75.0 ppm 65.0 ppm 110 ppm	none	none	Sum of polyvalent cations present in the water, generally magnesium and calcium, and are usually naturally occurring
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	Reservoir	06/23/22	110 ppm				
							led later in this report.
TA	BLE 4 – DET	ECTION	OF CONTAN	MINANTS WI	TH A PRIN	IARY DRI	NKING WATER STANDARD
Chemical or (Sample Date	Level Detected	Range of Detections	MCL MRDL	PHG MCLG MRDLG	Typical Source of Contaminant
Aluminum	Reservoir	06/23/22	ND		1000 ug/L		Erosion of natural deposits
Fluoride mg/I	Well 12 Well 13 Well 14 Reservoir	06/22/21 06/22/21 06/22/21 06/23/22	1.10 mg/L 1.00 mg/L 0.13 mg/L 0.17 mg/L		2.0 mg/L	PHG 1.0mg/L	Erosion of natural deposits
Nitrate mg/L	Well 12 Well 13 Well 14 Reservoir	06/23/22 06/23/22 06/23/22 05/04/21 06/23/22	ND ND ND ND		10 mg/L	10 mg/L	Soil runoff from grazing, sewer system
Total Trihalo (TTHMs) ug/		01/25/22 04/25/22 07/25/22 11/29/22	80.0 ug/L 55.0 ug/L 27.0 ug/L 30.0 ug/L		80 ug/L		By-product of drinking water chlorination
Haloacetic A	acids ug/L	01/25/22 04/25/22 07/25/22 11/29/22	31.3 ug/L 34.9 ug/L 19.7 ug/L 19.5 ug/L		60 ug/L		By-product of drinking water chlorination
TAI	BLE 5 - DET	ECTION C	F CONTAM	IINANTS WI	ГН А <u>SECO</u>	<i>NDARY</i> DI	RINKING WATER STANDARD
Chemical or		Sample Date	Level Detected	Range of Detections	MCL	PHG MCLG	Typical Source of Contaminant
Iron ug/L	Reservoir Well 12 Well 13 Well 14	06/23/22 06/22/21 06/22/21 06/22/21	ND ug/L ND ug/L 1200 ug/L 590 ug/L	110-290	300 ug/L		Leach from natural deposits
Total Dissolved ppm	1 Solids (TDS) Reservoir Well 12 Well 13 Well 14	06/23/22 06/22/21 06/22/21 06/22/21	330 ppm 200 ppm 200 ppm 140 ppm	0	1000 ppm		Runoff/leaching from natural deposits
Specific Condu	Reservoir Well 12 Well 13 Well 14	06/23/22 06/22/21 06/22/21 06/22/21	600 uS/cm 360 uS/cm 350 uS/cm 310 uS/cm		1600 uS/cm		Substances that form ions when in water; seawater influence.

Chemical or Co		Sample Date	Level Detected	Range of Detections	Notificatio		Health Effects Language		
		TABLE	O-DETEC	TION OF ON	REGULATE	DCONTA	MINANTS		
TABLE 6 – DETECTION OF UNREGULATED CONTAMINANTS									
	Well 13 Well 14	6/22/21 6/22/21	ND ND						
Odor TON	Reservoir Well 12	06/23/22 6/22/21	8 TON ND		3.0 TON		Naturally occurring organic materials.		
,	Well 12 Well 13 Well 14	6/22/21 6/22/21 6/22/21	1.50 NTU 6.30 NTU 1.00 NTU	3 %	3.0 N10		Soil runoff.		
Manganese ug/L Turbidity NTU	Well 13 Reservoir	6/22/21	22.0 ug/L 1.20 NTU		50 ug/L 5.0 NTU		Leaching from natural deposits.		
	Well 14	06/22/21	25.0 mg/L			1000.00			
	Well 13	06/22/21	11.0 mg/L						
Sulfate mg/L	Reservoir Well 12	06/23/22 06/22/21	20.0 mg/L 28.0 mg/L		500 mg/L		Soil runoff		
	Well 13 Well 14	06/22/21 06/22/21	10.0 <5.0			Es			
	Reservoir Well 12	06/23/22 06/22/21	40.0 5.0		15		Naturally-occurring organic materials		
	Well 13 Well 14	06/22/21	53.0 ppm						
Chloride ppm	Reservoir Well 12	06/23/22 06/22/21 06/22/21	110.0 ppm 58.0 ppm 71.0 ppm		500 ppm		Runoff / leaching from natural deposits; seawater influence.		

^{*}Any violation of an MCL, MRDL, or TT is noted in **bold font**. Additional information regarding the violation is provided later in this report.

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 USEPA'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. USEPA/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).

Estero Mutual Water Company's Micro filtration system is mechanically capable of filtering Cryptosporidium, and other microbial contaminants such as coliform bacteria, fecal coliform, and Giardia even prior to the addition of chlorine as a federally required disinfectant.

Summary Information for Contaminants Exceeding an MCL, MRDL, or AL or Violation of Any TT or Monitoring and Reporting Requirement

- -There were NO Primary Contaminants that exceeded an MCL.
- -There were NO Contaminants that exceeded an MRDL, AL.
- -There were NO Violations of any Treatment Techniques (TT).
- -There were NO_Violations of any Monitoring and Reporting Requirements.

-AS PREVIOUSLY NOTED Trihalomethanes and Haloacetic Acids are by-products of drinking water chlorination which is federally required in all drinking water systems as a disinfection agent.

-AS A CONTINUING REMINDER Trihalomethanes and Haloacetic Acids can be further reduced at your home, if desired with the proper use of household activated carbon filtration.

Iron, color and odor are reported <u>PRIOR to filtration</u> at EMWC facility. They are <u>SECONDARY</u> Contaminants -the MCL is set on a basis of <u>AESTHETICS ONLY.</u>

(Proper use of household activated carbon filtration will reduce iron, color and odor if desired).

-There are NO PHGs, MCLGs or mandatory standard health effects for Secondary Contaminants.

For Systems Providing Ground Water as a Source of Drinking Water (Refer to page 1, "Type of water source in use" to see if your source of water is surface water or groundwater)

TABLE 7 – SAMPLING RESULTS SHOWING FECAL INDICATOR-POSITIVE GROUND WATER SOURCE SAMPLES PHG Microbiological Contaminants MCL Total No. of Sample **Typical Source of Contaminant** MCLG **Detections** Dates MRDL (complete if fecal-indicator detected) MRDLG Human and animal fecal waste (In the year) N/A 0 (0)E. coli NONE 0 Human and animal fecal waste (In the year) N/A n/a Enterococci NONE TT 0 Human and animal fecal waste Coliphage (In the year) N/A n/a NONE TT

Summary Information for Fecal Indicator-Positive Ground Water Source Samples, Uncorrected Significant Deficiencies, or Violation of a Ground Water TT

-NONE DETECTED - THERE WERE NO DEFICIENCES OR VIOLATIONS.

- -There were NO Fecal Indicator-Positive results from Ground Water Source Samples.
- -There were <u>NO</u> Deficiencies in Ground Water Treatment Technique (TT).
- -There were NO Violations of a Ground Water Treatment Technique (TT).

For Systems Providing Surface Water as a Source of Drinking Water

(Refer to page 1, "Type of water source in use" to see if your source of water is surface water or groundwater)

TABLE 8 - SAMPLING RESULTS SHOWING TREATMENT OF SURFACE WATER SOURCES						
Treatment Technique ^(a) (Type of approved filtration technology used)	Micro Filtration					
Turbidity Performance Standards ^(b) (that must be met through the water treatment process)	Turbidity of the filtered water must: 1 - Be less than or equal to 0.1 NTU in 95% of measurements in a month. 2 - Not exceed 1.0 NTU for more than eight consecutive hours. 3 - Not exceed 2.0 NTU at any time.					
Lowest monthly percentage of samples that met Turbidity Performance Standard No. 1.	100% of samples met Turbidity Performance Standard No. 1					
Highest single turbidity measurement during the year	0.091 NTU					
Number of violations of any surface water treatment requirements	NONE					

- (a) A required process intended to reduce the level of a contaminant in drinking water.
- (b) Turbidity (measured in NTU) is a measurement of the cloudiness of water and is a good indicator of water quality and filtration performance. Turbidity results which meet performance standards are considered to be in compliance with filtration requirements.
- * Any violation of a TT is marked with an asterisk. Additional information regarding the violation is provided earlier in this report.

Summary Information for Violation of a Surface Water TT

-There were <u>NO</u>	VIOLATIONS	of a Surface Water	Treatment Techn	nique (TT).	
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Please feel free to contact Estero Mutual Water Company (707) 878-2400 with any questions or concerns

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