

## 2019 Consumer Confidence Report

Water System Name: Lake Morena Views Mutual Water Company Report Date: 06/12/2020

*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, 2019 and may include earlier monitoring data.*

**Este informe contiene información muy importante sobre su agua para beber. Favor de comunicarse Lake Morena Views Mutual Water Company a 29856 Mallard Dr., Campo, CA 91906 (619)478-9194 para asistirlo en español.**

Type of water source(s) in use: Groundwater

Name & general location of source(s): Four groundwater wells (three active and one standby sources) supplied by a local aquifer located at 29856 Mallard Drive Campo, CA 91906

Drinking Water Source Assessment information: An assessment of the drinking water sources for Lake Morena Views Mutual Water Company was conducted in 2002 and is on file with the County of San Diego Department of Environmental Health and State Water Resources Control Board Division of Drinking Water. The sources are considered most vulnerable Septic systems - high density [ $>1/\text{acre}$ ]

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

1<sup>st</sup> Saturday of every month at 9:00 am at 29856 Mallard Drive Campo, CA 91906

For more information, contact: Wellman Simmonds

Phone: (619)478-9194

### 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.

**Variations 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 ( $\mu\text{g/L}$ )

**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 <sup>(a)</sup>	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
<i>E. coli</i> (federal Revised Total Coliform Rule)	(In the year)	0	<sup>(b)</sup>	0	Human and animal fecal waste

<sup>(a)</sup> Two or more positive monthly samples is a violation of the MCL  
<sup>(b)</sup> 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								
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)	2019	5	N/D	0	15	0.2	Not applicable	Internal corrosion of household water plumbing systems; discharges from industrial manufacturers; erosion of natural deposits
Copper (ppm)	2019	5	0.195	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)	2017	50	42-56	None	None	Salt present in the water and is generally naturally occurring
Hardness (ppm)	2017	313.3	240-400	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
Gross Alpha (pCi/L)*	2018	17.1	13.7-20.4	15	0	Erosion of natural deposits
Uranium (pCi/L)*	2019	32.2	N.D.-90.3	20	0.43	Erosion of natural deposits
Radium 226 (pCi/L)	2016	.405	.247-.563	5	.05	Radium is formed when uranium and thorium undergo radioactive decay in the environment
Radium 228 (pCi/L)	2016	.785	ND-.157	5	.019	Radium is formed when uranium and thorium undergo radioactive decay in the environment
HAA5 (Haloacetic Acid) (ppb)	2018	6.6	N/A	60	N/A	Byproduct of drinking water
TTHM's (Total Trihalomethanes) (ppb)	2018	31	N/A	80	N/A	Byproduct of drinking water
Aluminum (ppm)	2019	0	N/A	1	.6	Leaching from rock and soil
Arsenic (ppb)	2019	0	N/A	10	.004	Most often naturally occurring and is due to the geology and geochemistry of the aquifer
Nitrate as N* (ppm)	2019	14.8	5.3-31.0	10	10	Their presence in groundwater is generally associated with septic systems, confined animal feeding operations or fertilizer use.

**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 (ppm)	2019	69	N/A	500	N/A	Runoff/ Leaching from natural deposits; seawater influence
Color (color units)	2016	10	N/A	15	N/A	Naturally Occurring organic materials
Iron* (ppb)	2019	1760	440-2400	300	N/A	Leaching from natural deposits; industrial waste
Manganese (ppb)	2019	23	N/A	50	N/A	Leaching from natural deposits
Specific Conductance (us/cm)	2019	560	N/A	1600	N/A	Runoff/Leaching from natural deposits; seawater influence
Sulfate (ppm)	2019	14	N/A	500	N/A	Runoff/Leaching from natural deposits; seawater influence
Total Dissolved Solids (ppm)	2017	660	470-870	1000	N/A	Runoff/Leaching from natural deposits
Turbidity (NTU)	2017	.6	ND-1.3	5	N/A	Soil Runoff
Zinc (ppm)	2018	0.13	N/A	5	5	Runoff/ Leaching from natural deposits; Industrial waste

## 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. Lake Morena Views Mutual Water Company 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>.

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**Summary Information for Violation of a MCL, MRDL, AL, TT,  
or Monitoring and Reporting Requirement**

<b>VIOLATION OF A MCL, MRDL, AL, TT, OR MONITORING AND REPORTING REQUIREMENT</b>				
<b>Violation</b>	<b>Explanation</b>	<b>Duration</b>	<b>Actions Taken to Correct the Violation</b>	<b>Health Effects Language</b>
<b>Nitrate</b>	<b>The level detected exceeds MCL</b>	<b>Ongoing</b>	Along with the Division of Drinking Water, State Water Resources Board we are working to evaluate the water supply and researching options to correct the problem. We are proposing a new ion exchange treatment plant to treat nitrate and uranium as an interim solution. As a long term solution, in 2020 we received a state grant to do a planning study to consolidate with Lake Morena Oak Shores. We anticipate the planning and construction to take approximately 6 years.	Infants below the age of six months who drink water containing nitrate in excess of the MCL may quickly become seriously ill and, if untreated, may die because high nitrate levels can interfere with the capacity of the infant's blood to carry oxygen. Symptoms include shortness of breath and blueness of the skin. High nitrate levels may also affect the oxygen-carrying ability of the blood of pregnant women.
<b>Iron</b>	<b>The level detected exceeds MCL</b>	<b>Ongoing</b>	Along with the Division of Drinking Water, State Water Resources Board we are working to evaluate the water supply and researching options to correct the problem. This will be evaluated as part of the planning study.	"Iron was found at levels that exceed the secondary MCL of 300 µg/L. The iron MCL was set to protect you against unpleasant aesthetic effects (e.g., color, taste, and odor) and the staining of plumbing fixtures (e.g., tubs and sinks) and clothing while washing. The high iron levels are due to leaching of natural deposits."
<b>Uranium</b>	<b>The running annual average exceeded the MCL</b>	<b>Ongoing</b>	Along with the Division of Drinking Water, State Water Resources Board we are working to evaluate the water supply and researching options to correct the problem. We are proposing a new ion exchange treatment plant to treat nitrate and uranium as an interim solution. As a long term solution, in 2020 we received a state grant to do a planning study to consolidate with Lake Morena Oak Shores. We anticipate the planning and construction to take approximately 6 years.	Drinking water containing Uranium in excess of the MCL over many years may cause kidney problems or increased risk of cancer.