

**Lake Francis Mutual Water Company**  
**2017 Water Quality Consumer Confidence Report**  
**Public Water System Number 5800805**

Este informe contiene información muy importante sobre su agua beber. Tradúzcalo ó hable con alguien que lo entienda bien.

For additional information concerning your drinking water, contact **Terry Patton at 530 692-1082** or **Kevin Timms at 530 870 2471**

Water for the Lake Francis Mutual water Co originates from a groundwater well-known as Well#5. 2 back-up wells not currently being used are #3, #4

**DEFINITIONS OF SOME OF THE 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 technologically, and economically feasible.

**Primary Drinking Water Standards (PDWS):** MCLs for Contaminants that affect health along with their monitoring and reporting requirements, and surface 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.

**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 Federal Environmental Protection Agency (USEPA).

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

**pCi/L:** picocuries per liter (a measure of radiation)

**ppb:** parts per billion or micrograms per liter

**ppm:** parts per million or milligrams per liter

**nd:** non detectable at testing limit

**TDS:** Total Dissolved Solids

**MICROBIOLOGICAL WATER QUALITY:**

Testing for bacteriological Contaminants in the distribution system is required by State regulations. This testing is done regularly to verify that the water system is free from coliform bacteria. The minimum number of tests required per month is one. In our distribution system, we test the water once per month for coliform bacteria. The highest number of samples found to contain coliform bacteria during any one month was **one**

**LEAD & COPPER TESTING RESULTS:**

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, components associated with service lines and home plumbing. Lake Francis Mutual Water Co 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 exposure by flushing your tap for 30 seconds to 2 minutes before using for dinking or cooking. If you are concerned about lead you may wish to have your water tested More info on lead in drinking water can be found at <http://www.epa.gov/safewater.lead>.The table below summarizes the most recent sampling for lead and copper.

	Year	Number of samples collected	# of above AL	90 <sup>th</sup> Percentile Result (ppb)	AL	MCLG
Lead	2016	5	0	0.484	15	
Copper	2016	5	0	33.4	1300	

**DETECTED CONTAMINANTS IN OUR WATER:**

The following table gives a list of all detected chemicals in our water during the most recent sampling. Please note that not all sampling is required annually so in some cases our results are more than one year old. These values are expressed in ppm unless otherwise stated.

Chemical Detected	Source	Year Tested	Level Detected	MCL	PHG	Origin
TDS	Well 5	2016	260 ppm	1000	None	Naturally occurring
Chloride	Well 5	2016	12.7 ppm	500	None	Naturally occurring
Hardness	Well 5	2016	140ppm	None	None	Naturally occurring
Sodium	Well 5	2016	55 ppm	None	None	Naturally occurring
Color	Well 5	2016	8 units	15	None	Naturally occurring organic matter
Specific Conductance	Well 5	2016	490 us/cm	1600	None	Substances that form ions when in water; seawater influence
Iron	Well 5	2017	276 ppb	300	None	Erosion & leaching of natural deposits
Sulfate	Well 5	2016	63.7 ppm	500	None	Runoff/leaching from natural deposits; industrial wastes
Gross Alpha	Well 5	2010	0.492 pCi/l	15	None	Decay of natural and man-made deposits
Arsenic	Well 5	2017	14.5 ppb	10	0.004	Erosion of natural deposits; runoff from orchards; glass and electronics production wastes
Beryllium	Well 5	2012	2.1 ppb	4	1	Discharge from metal refineries; coal burning factories; and electrical aerospace; and defense industries
Cadmium	Well 5	2012	3.8 ppb	5	0.04	Internal corrosion of galvanized pipes; erosion of natural deposits; discharge from electroplating and industrial chemical factories; and metal refineries; runoff from waste batteries and paints
Chromium (Total)	Well 5	2012	10 ppb	50	100	Discharge from steel and pulp mills and chrome plating; erosion of natural deposits
Barium	Well 5	2015	9.9 ppb	1000	2000	Discharge of oily drilling wastes and from the metal refineries, erosion & leaching of natural deposits
Fluoride	Well 5	2015	0.262 ppm	2000	1000	Erosion & leaching of natural deposits
Selenium	Well 5	2015	0.98 ppb	0.05 ppm	0.005 ppm	Erosion & Leaching of natural deposits
Nitrates	Well 4	2017	Non-detect	10	10	Runoff and leaching from fertilizer use; leaching from septic tanks, sewage; Erosion & leaching of natural deposits
Arsenic	Well 4	2017	0.39 ppb	10	0.004	Erosion of natural deposits; runoff from orchards; glass and electronics production wastes
Arsenic	Blended	2017	5.97 ppb	10	0.004	Erosion of natural deposits; runoff from orchards; glass and electronics production wastes
Chromium 6	Well 4	2016	0.015 ppb	10	10	Erosion of natural deposits
Turbidity	Well 5	2016	2.6 NTU	5	None	Erosion & leaching of natural deposits
Odor	Well 5	2016	8.0 TON	15	None	Naturally occurring organic mterial
Manganese	Well 5	2016	13 ppb	50	None	Erosion of natural deposits
Sodium	Well 4	2017	29 ppm	None	None	Naturally occurring
Sulfate	Well 4	2017	66.5 ppm	500	None	Runoff/leaching from natural deposits; industrial wastes
Chloride	Well 4	2017	14.1 ppm	500	None	Naturally occurring
Fluoride	Well 4	2017	0.170 ppm	2000	1000	Erosion & leaching of natural deposits
Gross Alpha	Well 4	2017	2.31 pCi/l	15	None	Decay of natural and man-made deposits
Radium 228	Well 4	2017	<0.825 pCi/l	15	None	Decay of natural and man-made deposits
Color	Well 4	2017	1 units	15	None	Naturally occurring organic matter
Hardness	Well 4	2017	190 ppm	None	None	Naturally occurring
TDS	Well 4	2017	350 ppm	1000	None	Naturally occurring
Specific Conductance	Well 4	2017	470 us/cm	1600	None	Substances that form ions when in water; seawater influence
Barium	Well 4	2017	9.5 ppb	1000	2000	Discharge of oily drilling wastes and from metal refineries, Erosion & leaching of natural deposits
Copper	Well 4	2017	2.4 ppb	1.0 ppm		Internal corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives
Nickel	Well 4	2017	0.74 ppb	0.1 ppm		Erosion of natural deposits: discharge from metal factories
Selenium	Well 4	2017	0.45 ppb	0.05 ppm		Discharge from Petroleum, glass, and metal refineries; erosion of natural deposits; discharge from mines and chemical manufactures; runoff from livestock lots (feed additive)
Zinc	Well 4	2017	9.8 ppb	5.0 ppm		Runoff/leaching from natural deposits: industrial wastes

**GENERAL INFORMATION ON DRINKING WATER:**

All 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 at 1-800-426-4791.

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, which 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, which 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, which 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. Environmental Protection Agency (USEPA) and the State Department of Health Services (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 must provide the same protection for public health

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 individuals, and infants can be particularly at risk from infections. These people should seek advice about drinking water from their health care providers. The

USEPA/Center for Disease Control guidelines on appropriate means to lessen the risk of infection by cryptosporidium and other microbiological contaminants are available from the Safe Drinking Water Hotline at 1-800-426-4791.

**Arsenic:**

Some people who drink water containing arsenic in excess of the MCL over many years could experience skin damage or problems with their circulatory systems, and may have an increased risk of getting cancer.

**SOURCE WATER ASSESSMENT:**

A source water assessment was completed in 2001 for the well serving Lake Francis Mutual Water Co. The sources are considered most vulnerable to the following activities not associated with any detected contaminants:

Low-density septic systems (All Wells)

A copy of the complete assessment may be viewed at:

Yuba County Environmental Health  
915 8<sup>th</sup> Street Suite 123

**VIOLATION INFORMATION:**

Lake Francis Mutual Water Co violated the MCL for Iron in 2013. The MCL was set to protect you against unpleasant aesthetic effects(e.g., color, taste, and odor) and the staining of plumbing and fixtures and clothing while washing. The high Iron levels are due to leaching of natural deposits. The system will be conducting quarterly testing in 2014 to help determine the most appropriate type of treatment. Lake Francis Mutual water violated MCL for Arsenic. Well#4 & Well#5 water is blended together at well site to lower Arsenic levels to meet MCL

**ADDITIONAL INFORMATION:**