



2000 Water Quality Report San Miguel

To our customers

The County of San Luis Obispo is pleased to present this annual report describing the quality of your drinking water. We sincerely hope this report gives you the information you seek and have a right to know.

What is the source of my drinking water?

Your water comes from two wells located in San Miguel and is cleaned through a natural filtration process as it trickles down through the ground. During this process, water may also pick up contaminants found in the soil, either natural or man-made. Groundwater is normally very clean and is simply disinfected with chlorine to help minimize viral and bacterial contamination. This year, the San Lawrence Terrace well was not used for drinking water purposes due to elevated nitrate levels.

The San Miguel wells combined are capable of producing 964 gallons of water per minute. Each well is equipped with on-line monitoring equipment to notify operators if there is a problem at the well site.

How is the water system operated?

The San Miguel water system is assigned one part-time water treatment operator. All operators who work for the County are certified by the California Department of Health Services (DHS). They are knowledgeable professionals dedicated to maintaining an excellent water system and providing you with the best quality water possible.



San Miguel well and structure to provide protection for on-line instrumentation and chemical storage.

Where is the water tested?

Water sampling and analyses are performed by the San Luis Obispo County Water Quality Laboratory. The lab is certified by the DHS as an environmental testing laboratory for bacteriological and chemical analyses. Federal and State requirements dictate that all regulatory analyses be performed by certified labs following approved procedures.

Where can the community participate in decisions regarding water quality?

The San Miguel Community Services District (CSD) was created on February 1, 2000 at the request of the community. They anticipate taking over responsibility for the water system by February 2002. The District Engineer for the newly formed San Miguel CSD is John Wallace and Associates.

The San Miguel CSD Board meets the second Monday of each month at 7:00 p.m. at their office located at 1150 Mission Street in San Miguel. A committee meeting is held the fourth Monday of each month at 5:00 p.m. The public is welcome to attend.

If you would like to contact the San Miguel CSD, please write to P.O. Box 180, San Miguel, CA 93451 or call 467-3300 or email SMCSD@tcsn.net.

Is there a problem with the water quality?

Screening tests for radioactivity detected elevated gross alpha activity in the water from the two wells in use in San Miguel. Certain minerals are radioactive and may emit a form of radiation known as alpha radiation. Some people who drink water containing alpha emitters in excess of the MCL over many years may have an increased risk of getting cancer.

An expanded monitoring program has been implemented in San Miguel. Results from this expanded testing indicate your water does meet State and Federal radioactivity standards. We will continue the additional testing to check for any changes.

2000 Water Statistics

- San Miguel Water Production
⇒ 77.99 million gallons
- Average Daily Demand
⇒ 213,096 gallons

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

TERMS USED IN THIS REPORT:

Maximum Contaminant Level Goal (MCLG) and Public Health Goal (PHG) – 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 and PHGs are set by the California Environmental Protection Agency.

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.

Primary Drinking Water Standards (PDWS) – MCLs 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 a treatment or other requirement which a water system must follow.

NS (No Standard): Contaminant for which there is no established MCL.

ND (Not Detected): Contaminant is not detectable at testing limit.

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

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)

NTU: Nephelometric Turbidity Unit

TON: Threshold Odor Number

LI: Langelier Index; Noncorrosive = Any positive value, Corrosive = Any negative value



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, which 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 by-products of industrial processes and petroleum production, and can also come from gas stations, urban stormwater runoff, and septic systems.
- *Radioactive contaminants* which 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 California Department of Health Services (Department) prescribes regulations which limit the amount of certain contaminants in water provided by public water systems. Department regulations also establish limits for contaminants in bottled water which must provide the same protection for public health.



Tables 1, 2, 3, and 4 list all of the drinking water contaminants that were detected from January 2000 through December 2000, unless otherwise noted. The presence of these contaminants in water does not necessarily indicate that the water poses a health risk. The Department requires us to monitor for certain contaminants less than once per year because the concentrations of these contaminants are not expected to vary significantly from year to year. Some of the data, though representative of the water quality, may be more than one year old.

Table 1 - Detection of Contaminants with a Primary Drinking Water Standard			San Miguel Wells		Potential Source of Contamination
Contaminant (reporting units)	MCL	PHG (MCLG)	Range	Average	
Arsenic (ppb)	50	-----		5	Erosion of natural deposits; runoff from orchards; glass and electronics production wastes
Barium (ppb)	1000	(2000)	ND—100	50	Discharge of oil drilling wastes and from metal refineries; erosion of natural deposits



Table 1 (Continued) - Detection of Contaminants with a Primary Drinking Water Standard			San Miguel Wells		Potential Source of Contamination
Contaminant (reporting units)	MCL	PHG (MCLG)	Range	Average	
Fluoride (ppb)	2000	1000	370–550	460	Erosion of natural deposits
Gross Alpha Particle Activity (pCi/L)	15	(0)	ND–8.5	2.6	Erosion of natural deposits
Nitrate as NO ₃ (ppm)	45	45	15–23	19	Runoff and leaching from fertilizer use; leaching from septic tanks and sewage; erosion of natural deposits
Selenium (ppb)	50	(50)	3.7–4.2	4.0	Erosion of natural deposits; discharge from mines and chemical manufacturers; runoff from livestock lots (feed additive)
Uranium (pCi/L)	20	(0)	7.83–12.5	10.7	Erosion of natural deposits

Table 2 - Lead and Copper		San Miguel Wells					Potential Source of Contamination
Contaminant (reporting units)	AL	MCLG	Number of Samples Collected	Date Collected	90th Percentile Level Detected	Number of Sites found above the AL	
Lead (ppb)	15	2	10	9/1999	ND	0	Internal corrosion of household water plumbing systems
Copper (ppb)	1300	170	10	9/1999	160	0	Internal corrosion of household water plumbing systems

Table 3 - Detection of Contaminants with a Secondary Drinking Water Standard		San Miguel Wells			Potential Source of Contamination
Contaminant (reporting units)	MCL	Date Collected	Range	Average	
Chloride (ppm)	500	5/1999	53–100	76	Runoff/leaching from natural deposits; seawater influence
Color (CU)	15	5/1999		1	Naturally occurring organic materials
Corrosivity (LI)	Noncorrosive	5/1999		-0.1	Natural or industrially-influenced balance of hydrogen, carbon and oxygen in the water; affected by temperature and other factors
Odor - Threshold	3	5/1999		1	Naturally occurring organic materials
Specific Conductance (micromhos/cm)	1600	5/1999	814–1130	972	Runoff/leaching from natural deposits; seawater influence
Sulfate (ppm)	500	5/1999	73–170	120	Runoff/leaching from natural deposits; industrial wastes
Turbidity (NTU)	5	5/1999	0.07–0.10	0.08	Soil Runoff
Total Dissolved Solids (ppm)	1000	5/1999	500–710	600	Runoff/leaching from natural deposits

Table 4 - Detection of Contaminants without a Drinking Water Standard	San Miguel Wells			Potential Source of Contamination
Contaminant (reporting units)	Date Collected	Range	Average	
Alkalinity as CaCO ₃ (ppm)	5/1999	260 - 270	260	Runoff/leaching from natural deposits; seawater influence
Calcium (ppm)	5/1999	42–56	49	Runoff/leaching from natural deposits; seawater influence
Hardness (ppm)	5/1999	270–360	320	Generally found in ground and surface water
Magnesium (ppm)	5/1999	39–54	46	Runoff/leaching from natural deposits; seawater influence
pH	5/1999	7.31–7.37	7.34	Runoff/leaching from natural deposits; seawater influence
Sodium (ppm)	5/1999	72–100	86	Runoff/leaching from natural deposits; seawater influence



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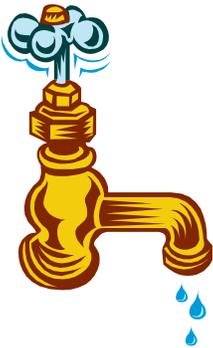
Additional General Information on Drinking Water

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 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).

Additionally, the Office of Ground Water and Drinking Water at EPA maintains a website with useful information on drinking water. The address is <http://www.epa.gov/OGWDW/>. Additional information can be obtained by accessing the American Water Works Association's website at <http://www.awwa.org> or by calling Percy Garcia, Water Quality Manager at 781-5111, John Beaton, Senior Water Systems Chemist at 781-5109, or Faith Zenker, Water Systems Chemist at 781-1576 at the County Water Quality Laboratory.

Water Conservation



The County of San Luis Obispo would like to remind all water users of the importance of water conservation. There are many ways to conserve water and a few examples are:

- Water gardens and wash cars in the evening, rather than during the day when water will evaporate
- Grow plants that do not need a lot of water, such as native plants
- Fix leaky pipes, interior faucets or hose bibs
- Install low-flow toilets & shower heads
- Sweep your pavement rather than hose it down
- Use hose with shutoff nozzle for washing cars