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# Water Quality Report

## County of SLO CSA10 – Cayucos

### System Number 4010025

# 2017



**Public Works will be a valued community partner enhancing  
quality of life for our fellow county residents.**

# SLO CSA10 – Cayucos WTP CCR 2017

## Your 2017 Water Quality Report

The County of San Luis Obispo is pleased to present this annual report describing the quality of your drinking water. Included are details about where your water comes from, what it contains, and how it compares to State standards. We sincerely hope this report gives you the information you seek and have a right to know. ***Este informe contiene información muy importante sobre su agua potable. Tradúzcalo ó hable con alguien que lo entienda bien.***

## Your Water Supply

The primary source of water for Cayucos is Whale Rock Reservoir. Whale Rock Reservoir has a total capacity of 40,660 acre-feet. The Whale Rock Commission manages the reservoir and is comprised of the City of San Luis Obispo, the California Men's Colony, and Cal Poly. No swimming or other body contact sports are allowed on the reservoir to minimize viral contamination from human contact. Water from the reservoir is piped downstream to the Cayucos Water Treatment Plant (WTP) where it is filtered and chlorinated. Prior to chlorination, a percentage of the water is passed through two granular activated carbon filters. In addition, Cayucos has a groundwater well, the Whale Rock Well (CAWO Well). The CAWO well contributed 1.91% of the total water production by CSA 10 in 2017.



## Operations

The Cayucos water system is assigned three primary operators who, like all operators who work for the County, are certified by the State Water Resources Control Board Department of Drinking Water

(SWRCB-DDW). Our operators are knowledgeable professionals who have many years of experience. They are dedicated to maintaining an excellent water system and providing you with the best quality water possible.

Operators conduct weekly inspections of the well, tank, and distribution system to ensure a safe and reliable water supply. In addition, the SWRCB routinely inspects the facilities, operating procedures, and water quality monitoring records to verify compliance with state and federal regulatory requirements.

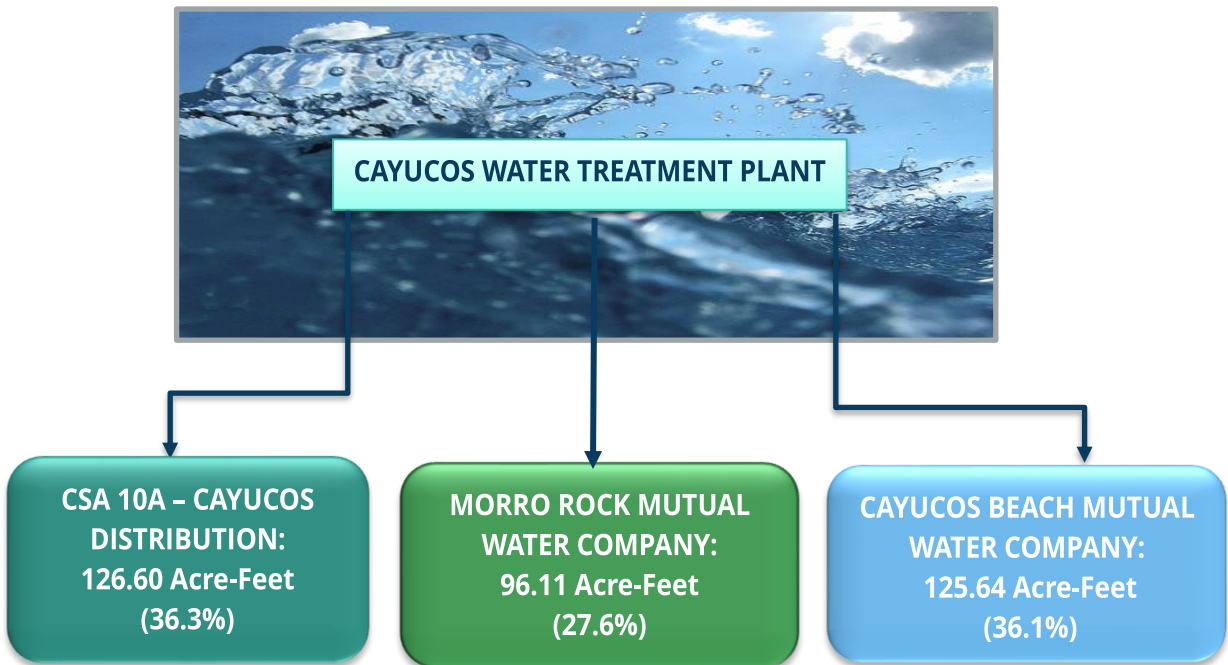
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## Community Participation

The San Luis Obispo County Board of Supervisors meets every Tuesday (except the 5th Tuesday in a month) at 9:00 a.m. in the board chambers located in the new Government Center, 1055 Monterey Street, San Luis Obispo. The Board holds budget hearings during the month of June. Interested persons should check the Board's agendas for specific dates. Agendas for all Board of Supervisors meetings are posted in some County libraries, the County Government Center, and on the Board of Supervisors internet web site at [www.slocounty.ca.gov](http://www.slocounty.ca.gov).

The Cayucos Citizens Advisory Council meets the first Wednesday of each month at the Cayucos Veterans Hall at 7:00 pm. The Cayucos Area Water Organization meets the first Monday of each month at the Cayucos Fire Station at 1:30 p.m.

## Water Delivery



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## Water Quality

The following tables are a snapshot of drinking water constituents that were detected in your water in 2017, unless otherwise noted. The State allows us to monitor for some substances less than once per year because the concentrations do not change frequently. Some of our data, although representative, may be more than one year old. The presence of these substances detected in water does not necessarily indicate that the water poses a health risk. For questions about this data, please contact the Water Quality Laboratory at (805) 781-5111.

Regulated Contaminants with Primary MCLs, MRDLs, TTs or RALs							
Constituent (Unit)	Where Sampled	MCL, TT, or [MRDL]	PHG, [MCGL] or [MRDLG]	Range Detected	Average Detected	Violation?	Potential Source of Contamination
<b>Filter Performance</b>							
Turbidity (NTU)	Filters	TT = 1 NTU	-----	0.02 - 0.11	0.05	No	Surface water runoff
		TT = 95% of samples ≤ 0.3	-----	100%	100%	No	
<b>Microbiological</b>							
Total Coliform Bacteria (Present or absent)	Delivered	> 1 positive per month	[0]	ND	ND	No	Naturally present in the environment.
Heterotrophic Bacteria (CFU/mL)	Delivered	TT ≤ 500	N/A	ND - 10	ND	No	Naturally present in the environment.
<b>Inorganic</b>							
Aluminum (ppm)	Treated	1	0.6	-----	0.055	No	Erosion of natural deposits; residue from some surface water treatment processes.
Arsenic (ppb)	Treated	10	0.004	-----	1.3	No	Erosion of natural deposits; runoff from orchards; glass and electronics production wastes.
Barium (ppm)	Treated	1	2	-----	0.069	No	Discharges of oil drilling wastes and from metal refineries; erosion of natural deposits.
Fluoride (ppm)	Treated	2.0	1	-----	0.375	No	Erosion of natural deposits; water additive that promotes strong teeth; discharge from fertilizer and
Nitrate as N (ppm)	Source	10	10	ND - 0.50	0.551	No	Runoff and leaching from fertilizer use; leaching from septic tanks and sewage; erosion of natural deposits.
<b>Radioactivity</b>							
Gross Alpha Particle Activity (pCi/L)	Source	15	N/A	1.78	1.78	No	Erosion of natural deposits.
<b>Disinfectant Residuals and Disinfection Byproducts</b>							
Chlorine (ppm)	Delivered	[4.0 as Cl <sub>2</sub> ]	[4 as Cl <sub>2</sub> ]	<0.10 - 2.06	1.59	No	Drinking water disinfectant added for treatment.
Haloacetic Acids (ppb)	Delivered	LRAA = 60	-----	<6.0 - 14.1	<6.0 max LRAA	No	Byproduct of drinking water disinfection.
Total Trihalomethanes (ppb)	Delivered	LRAA = 80	-----	1.2 - 30.7	15.3 max LRAA	No	Byproduct of drinking water disinfection.

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Contaminants with a Secondary Drinking Water Standard (Aesthetics)							
Contaminant (Unit)	Where Sampled	Year Sampled	MCL or [MRDL]	PHG, (MCLG) or [MRDLG]	Range Detected	Average Detected	Potential Source of Contamination
Aluminum (ppb)	Treated	2017	200	N/A	55	55	Erosion of natural deposits; residue from some surface water treatment processes
Color (CU)	Delivered	2017	15	----	ND - 4	<1	Naturally occurring organic materials
Copper (mg/L)	Treated	2017	1	----	ND	ND	Leaching from natural deposits; industrial wastes
Iron (µg/L)	Treated	2017	300	----	ND - 95	ND	Leaching from natural deposits; industrial wastes
Odor - Threshold (TON)	Delivered	2017	3	----	ND - 2.5	1.2	Naturally occurring organic materials
Manganese (µg/L)	Treated	2017	50	----	ND - 34	ND	Erosion of natural deposits
Specific Conductance (µS/cm)	Treated	2017	1600	----	660	660	Runoff/leaching from natural deposits
Sulfate (ppm)	Treated	2017	500	----	83.3	83.3	Runoff/leaching from natural deposits
Total Dissolved Solids (ppm)	Treated	2017	1000	----	370	370	Runoff/leaching from natural deposits
Turbidity (NTU)	Treated	2017	5	----	0.05 - 0.28	0.12	Soil runoff
Other Parameters							
Total Alkalinity as CaCO <sub>3</sub> (ppm)	Treated	2017	NS	----	209	209	Runoff/leaching from natural deposit.
Calcium (ppm)	Treated	2017	NS	----	43	43	Runoff/leaching from natural deposits
Total Hardness (ppm)	Treated	2017	NS	----	287	287	Generally found in ground and surface water
Magnesium (ppm)	Treated	2017	NS	----	44	44	Runoff/leaching from natural deposits
Sodium (ppm)	Treated	2017	NS	----	36	36	Runoff/leaching from natural deposits

The Utilities Division Water Quality Laboratory provides laboratory and technical services to support the beneficial management of water and wastewater for the present and future residents of the County of San Luis Obispo.

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## KEY TERMS AND ABBREVIATIONS

**CFU/ml** – Colony Forming Units per milliliter.

**CU** – Color Units.

**DWR** – Department of Water Resources

**LRAA** – Locational Running Annual Average. An average of quarterly samples from a particular monitoring location for a period of one year.

**MCL** – Maximum Contaminant Level. 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.

**MCLG** – Maximum Contaminant Level Goal. 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.

**mg/L** – Milligrams per Liter.

**mL** – Milliliter.

**MRDL** – Maximum Residual Disinfectant Level. 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.

**MRDLG** – Maximum Residual Disinfectant Level Goal. 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.

**MPN/100mL** – Most Probable Number of organisms in a 100-mL sample.

**NA** – Not Analyzed.

**ND** – Not Detected. Contaminant is not detectable at testing limit.

**NTU** – Nephelometric Turbidity Unit.

**pCi/L** – picocuries per liter (a measure of radioactivity).

**PDWS** – Primary Drinking Water Standards. MCLs and MRDLs for contaminants that affect health along with their monitoring and reporting requirements, and water treatment requirements. PDWS pertain to the following: Filtration Performance, Microbiological Contaminants, Inorganic Contaminants, Radioactive Contaminants and Disinfection Byproducts, Disinfection Residuals, and Disinfection Byproduct Precursors.

**PHG** – Public Health Goal. 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.

**ppb** – parts per billion, or micrograms per liter ( $\mu\text{g/L}$ ).

**ppm** – parts per million, or milligrams per liter (mg/L).

**Primary MCL** – Maximum contaminant level for contaminants that affect health along with their monitoring and reporting requirements, and water treatment requirements. Primary MCLs are set as close to the PHGs (or MCLGs) as is economically and technologically feasible.

**RAL** – Regulatory Action Level. The concentration of a contaminant that, if exceeded, triggers treatment or other requirements that a water system must follow.

**Secondary MCLs** – Maximum contaminant level for contaminants to protect the taste, odor, or appearance of the drinking water. Contaminants with secondary MCLs do not affect health at the MCL levels.

**TON** – Threshold Odor Number.

**TT** – Treatment Technique. A required process intended to reduce the level of a contaminant in drinking water.

**$\mu\text{S/cm}$**  – microsiemens per centimeter (unit of specific conductance of water).

**$\mu\text{g/L}$**  – Micrograms per Liter.

**USEPA** – United States Environmental Protection Agency

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## Important Health Information

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).

## Drinking Water and Lead

If present, elevated levels of lead can cause serious health problems, especially for pregnant women and young children. Lead in drinking water typically comes from materials and components associated with service lines and home plumbing. The County of San Luis Obispo 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 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 (1-800-425-4791) or at <http://www.epa.gov/safewater/lead>.

## Additional information

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 U.S. Environmental Protection Agency (USEPA) and the State Water Resources Control Board (State Board) prescribe regulations that limit the amount of

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certain contaminants in water provided by public water systems. State Board regulations also establish limits for contaminants in bottled water that provide the same protection for public health. 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.

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).

## Contact Information

USEPA Office of Ground Water and Drinking Water

<http://water.epa.gov/drink/index.cfm>

California State Water Resources Control Board (SWRCB)

[http://www.waterboards.ca.gov/drinking\\_water/certlic/drinkingwater/publicwatersystems.shtml](http://www.waterboards.ca.gov/drinking_water/certlic/drinkingwater/publicwatersystems.shtml)