

2021 Consumer Confidence Report

Water System Information

Water System Name: **Port San Luis Harbor District**

Report Date: **June 24, 2022**

Type of Water Source(s) in Use: **Surface Water**

Name and General Location of Source(s): **Lopez Lake Water Supply Project**

Drinking Water Source Assessment Information: **A source assessment was performed in 2001; Lopez Lake and Lopez Terminal Reservoir were found to be the most vulnerable to wastewater generation at the Lopez Recreation Area, livestock near the reservoirs, and a roadway that bisects the Terminal Reservoir. To date, these activities have not adversely impacted the WTP treated water quality. A copy of the assessment can be found at the San Luis Obispo County Public Works Department website or by contacting the Water Quality Laboratory at (805) 781-5111.**

Time and Place of Regularly Scheduled Board Meetings for Public Participation: **Regular meetings are held on the fourth Tuesday of each month at 6PM at the Coastal Gateway Building (3900 Avila Beach Drive).**

For More Information, Contact: **Port San Luis Harbor District, (805) 595-5400**

About This Report

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, 2021 and may include earlier monitoring data.

Importance of This Report Statement in Five Non-English Languages (Spanish, Mandarin, Tagalog, Vietnamese, and Hmong)

Language in Spanish: Este informe contiene información muy importante sobre su agua para beber. Favor de comunicarse Port San Luis Harbor District a 3950 Avila Beach Drive, Avila Beach, CA, 93424, (805) 595-5400 para asistirlo en español.

Language in Mandarin: 这份报告含有关于您的饮用水的重要讯息。请用以下地址和电话联系 Port San Luis Harbor District 以获得中文的帮助: 3950 Avila Beach Drive, Avila Beach, CA, 93424, (805) 595-5400.

Language in Tagalog: Ang pag-uulat na ito ay naglalaman ng mahalagang impormasyon tungkol sa inyong inuming tubig. Mangyaring makipag-ugnayan sa Port San Luis Harbor District, 3950 Avila Beach Drive, Avila Beach, CA, 93424 o tumawag sa (805) 595-5400 para matulungan sa wikang Tagalog.

Language in Vietnamese: Báo cáo này chứa thông tin quan trọng về nước uống của bạn. Xin vui lòng liên hệ Port San Luis Harbor District tại 3950 Avila Beach Drive, Avila Beach, CA, 93424, (805) 595-5400 để được hỗ trợ giúp bằng tiếng Việt.

Language in Hmong: Tsaab ntawv no muaj cov ntsiab lus tseem ceeb txog koj cov dej haus. Thov hu rau Port San Luis Harbor District ntawm 3950 Avila Beach Drive, Avila Beach, CA, 93424, (805) 595-5400 rau kev pab hauv lus Askiv.

Terms Used in This Report

Term	Definition
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 <i>E. coli</i> MCL violation has occurred and/or why total coliform bacteria have been found in our water system on multiple occasions.
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).
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.
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.
Regulatory Action Level (AL)	The concentration of a contaminant which, if exceeded, triggers treatment or other requirements that a water system must follow.
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.
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.
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)

Sources of Drinking Water and Contaminants that May Be Present in Source Water

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.

Regulation of Drinking Water and Bottled Water Quality

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.

About Your Drinking Water Quality

Drinking Water Contaminants Detected

Tables 1, 2, 3, 4, 5, 6, and 8 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	Highest No. of Detections	No. of Months in Violation	MCL	MCLG	Typical Source of Bacteria
<i>E. coli</i>	(In the year) 0	0	(a)	0	Human and animal fecal waste

(a) 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 1.A. Compliance with Total Coliform MCL between January 1, 2021 and June 30, 2021 (inclusive)

Microbiological Contaminants	Highest No. of Detections	No. of Months in Violation	MCL	MCLG	Typical Source of Bacteria
Total Coliform Bacteria	(In a month) 0	0	1 positive monthly sample (a)	0	Naturally present in the environment
Fecal Coliform and <i>E. coli</i>	(in the year) 0	0	0	None	Human and animal fecal waste

(a) For systems collecting fewer than 40 samples per month: two or more positively monthly samples is a violation of the total coliform MCL

Table 2. Sampling Results Showing the Detection of Lead and Copper

Lead and Copper	Sample Date	No. of Samples Collected	90 th Percentile Level Detected	No. Sites Exceeding AL	AL	PHG	No. of Schools Requesting Lead Sampling	Typical Source of Contaminant
Port San Luis Harbor District – Lead (ppb)	9/16/20	5	2.75	0	15	0.2	N/A	Internal corrosion of household water plumbing systems; discharges from industrial manufacturers; erosion of natural deposits
Port San Luis Harbor District – Copper (ppm)	9/16/20	5	0.40	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
Lopez Lake WSP – Sodium (ppm)	2021	33	32 – 34	None	None	Salt present in the water and is generally naturally occurring
Lopez Lake WSP – Hardness (ppm)	2021	408	367 – 440	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
Lopez Lake SWP – Aluminum (ppm)	2021	ND	ND – 0.027	1	0.6	Erosion of natural deposits; residue from some surface water treatment processes
Lopez Lake SWP – Arsenic (ppb)	2021	4.7	3.4 – 5.8	10	0.004	Erosion of natural deposits; runoff from orchards; glass and electronics production wastes
Lopez Lake SWP – Barium (ppm)	2021	0.03	N/A	1	2	Discharges of oil drilling wastes and from metal refineries; erosion of natural deposits
Lopez Lake SWP – Chlorite (ppm)	2021	0.627	0.46 – 0.83	1.0	0.05	Byproduct of drinking water disinfection
Lopez Lake SWP – Chlorine Dioxide (ppb)	2021	101	ND – 323	[800 (as ClO ₂)]	[800 (as ClO ₂)]	Drinking water disinfectant added for treatment
Lopez Lake SWP – Copper (ppm)	2021	0.024	N/A	AL = 1.3	0.3	Internal corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives
Lopez Lake SWP – Chlorine Dioxide (ppb)	2021	101	ND – 323	[800 (as ClO ₂)]	[800 (as ClO ₂)]	Drinking water disinfectant added for treatment
Lopez Lake SWP – Copper (ppm)	2021	0.024	N/A	AL = 1.3	0.3	Internal corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives
Lopez Lake SWP – Fluoride (ppm)	2021	0.27	N/A	2.0	1	Erosion of natural deposits; water additive that promotes strong teeth; discharge from fertilizer and aluminum factories

Table 5. Detection of Contaminants with a Primary Drinking Water Standard, Continued

Chemical or Constituent (and reporting units)	Sample Date	Level Detected	Range of Detections	MCL [MRDL]	PHG (MCLG) [MRDLG]	Typical Source of Contaminant
Lopez Lake SWP – Free Chlorine Residual (ppm)* ^{1,3}	2021	3.97	3.62 – 4.32	[4.0 (as Cl ₂)]	[4 (as Cl ₂)]	Drinking water disinfectant added for treatment
Lopez Lake SWP Gross Alpha Particle Activity (pCi/L)	2013	1.51	1.42 – 1.59	15	(0)	Erosion of natural deposits
Lopez Lake SWP – Haloacetic Acids (ppb) ²	2021	29.6	16 – 53	60	N/A	Byproduct of drinking water disinfection
Port San Luis Harbor District – Haloacetic Acids (ppb)	8/26/21 9/8/21	5.9	2.1 – 9.7	60	N/A	Byproduct of drinking water disinfection
Lopez Lake SWP – Heterotrophic Plate Count (CFU/mL)	2021	2.7	ND – 103	TT	N/A	Naturally present in the environment
Lopez Lake SWP – Total Chlorine Residual (ppm)	2021	2.53	0.9 – 3.34	[4.0 (as Cl ₂)]	[4 (as Cl ₂)]	Drinking water disinfectant added for treatment
Lopez Lake SWP – Total Trihalomethanes (ppb) ²	2021	42.2	22 – 74	80	N/A	Byproduct of drinking water disinfection
Port San Luis Harbor District – Total Trihalomethanes (ppb)	9/8/21	47	N/A	80	N/A	Byproduct of drinking water disinfection

Table 6. 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
Lopez Lake SWP – Aluminum (ppb)	2021	ND	ND – 27	200	N/A	Erosion of natural deposits; residual from some surface water treatment processes
Lopez Lake SWP – Chloride (ppm)	2021	33	N/A	500	N/A	Runoff/leaching from natural deposits; seawater influence
Lopez Lake SWP – Odor (TON)*⁴	2021	1.9	1.0 – 4.0	3	N/A	Naturally-occurring organic materials
Lopez Lake SWP – Specific Conductance (µS/cm)	2021	870	N/A	1,600	N/A	Substances that form ions when in water; seawater influence

Table 7. Detection of Contaminants with a Secondary Drinking Water Standard, Continued

Chemical or Constituent (and reporting units)	Sample Date	Level Detected	Range of Detections	SMCL	PHG (MCLG)	Typical Source of Contaminant
Lopez Lake SWP – Sulfate (ppm)	2021	140	N/A	500	N/A	Runoff/leaching from natural deposits; industrial wastes
Lopez Lake SWP – Total Dissolved Solids (ppm)	2021	540	N/A	1,000	N/A	Runoff/leaching from natural deposits
Lopez Lake SWP – Turbidity (NTU)	2021	0.14	N/A	5	N/A	Soil runoff

**Any violation of an MCL, MRDL, or TT is asterisked. Additional information regarding the violation is provided later in this report.*

¹Free chlorine was used from November 3rd – December 1st as a routine maintenance procedure. This annual switchover of disinfectants helps to ensure water remains free of potentially harmful bacteria.

²Compliance is based on the locational running annual average of samples; elevated total trihalomethanes and total Haloacetic acids for one quarter due to annual disinfection change for pipeline maintenance.

³Lopez WTP treated water free chlorine residual was over 4.0 ppm on a single sample. All chlorine residual measurements conducted in Port San Luis Harbor District were in compliance with applicable regulations.

⁴Increases in odor have been associated with algae blooms. During times of increased algae blooms and odors, the algae is controlled with algaecides and the odor is reduced to acceptable levels by treating water with powder activated carbon.

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).

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. Port San Luis Harbor District 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 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>.

While your drinking water meets the federal and state standard for arsenic, it does contain low levels of arsenic. The arsenic standard balances the current understanding of arsenic's possible health effects against the cost of removing arsenic from drinking water. The U.S. Environmental Protection Agency continues to research the health effects of low

levels of arsenic, which is a mineral known to cause cancer in humans at high concentrations and is linked to other health effects such as skin damage and circulatory problems.

This Consumer Confidence Report (CCR) reflects changes in drinking water regulatory requirements during 2021. These revisions add the requirements of the federal Revised Total Coliform Rule, effective since April 1, 2016, to the existing state Total Coliform Rule. The revised rule maintains the purpose to protect public health by ensuring the integrity of the drinking water distribution system and monitoring for the presence of microbials (i.e., total coliform and E. coli bacteria). The U.S. EPA anticipates greater public health protection as the rule requires water systems that are vulnerable to microbial contamination to identify and fix problems. Water systems that exceed a specified frequency of total coliform occurrences are required to conduct an assessment to determine if any sanitary defects exist. If found, these must be corrected by the water system. The state Revised Total Coliform Rule became effective July 1, 2021.

Odor was found at levels that exceeded the secondary MCL (Maximum Contaminant Level) standards. The secondary MCLs were 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 levels are most likely due to naturally-occurring organic materials.

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

Table 7. Violation of a MCL, MRDL, AL, TT or Monitoring Reporting Requirement

Violation	Explanation	Duration	Actions Taken to Correct Violation	Health Effects Language
Lopez Lake SWP – Free Chlorine Residual Maximum Level Exceedance	The results of one sample collected at the Lopez Lake SWP was over the maximum of 4.0 ppm at 4.32 ppm.	The results of one sample collected at the Lopez Lake SWP was over the maximum of 4.0 ppm at 4.32 ppm.	The Lopez Lake SWP is the source of water for Port San Luis Harbor District; all of the samples collected in Port San Luis Harbor District during 2021 were in compliance with applicable regulations.	Some people who use water containing chlorine well in excess of the MRDL could experience irritating effects to their eyes and nose. Some people who drink water containing chlorine well in excess of the MRDL could experience stomach discomfort.