SID - Peabody Public Water System
2025 Annual Water Quality Report

Solano Irrigation District welcomes this yearly opportunity to communicate our commitment to delivering quality water to our SID-Peabody Public Water System customers. Your treated surface water is purchased from the City of Fairfield, and originates from Lake Berryessa, and the Sacramento River Delta. Public involvement in SID decisions is welcomed. SID Board meetings are held regularly on the third Tuesday of each month at 6:00 p.m. at 810 Vaca Valley Parkway, Suite 201, Vacaville, CA 95688.

This report informs you that after testing for over 100 different constituents, your drinking water supply meets all health related standards established by the State Water Resources Control Board – Division of Drinking Water, and the U.S. Environmental Protection Agency.

All source waters used for drinking water are required to be assessed for the vulnerability to possible contaminants. A Source Water Assessment for Lake Berryessa was completed in 2003, and the Sacramento Delta was completed in 2002. These sources are considered most vulnerable to illegal activities/dumping, herbicide application, and urban/agricultural runoff not associated with any contaminants detected in the water supply. A summary of these assessments can be obtained by contacting SID.

For more information, contact Miguel Martinez, Water Quality Coordinator, 707-455-4055.

Este informe contiene información muy importante sobre su agua potable.

Tradúzcalo ó hable con alguien que lo entienda bien.

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 (USEPA).

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.

ppm: parts per million or milligrams per liter (mg/L)

ppb: parts per billion or micrograms per liter (ug/L)

pCi/L: picocuries per liter

Primary Drinking Water Standards (PDWS): MCLs or 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 health at the MCL levels.

Treatment Technique (TT): A required process intended to reduce the level of a contaminant in drinking water.

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

Notification Level (NL): Health based advisory level set by the Department for constituents with no MCL. This is not an enforceable standard, although requirements and recommendations may apply if detected above this level.

Variances and Exemptions: Department permission to exceed an MCL or not comply with a treatment technique under certain conditions.

NA: not applicable

ND: not detectable at testing limit

NTU: nephelometric turbidity unit

TON: threshold odor number

µS/cm: microsiemens per centimeter

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 microbial contaminants 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*, 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 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*, 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, USEPA and the State Water Resources Control Board – Division of Drinking Water (DDW) prescribe regulations that limit the amount of certain contaminants in water provided by public water systems. DDW regulations also establish limits for contaminants in bottled water that must provide the same protection for public health.

Tables below 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. DDW allows systems to monitor for certain contaminants less than once per year because the concentrations of these contaminants do not change frequently.

TABLE 1 - SAMPLING RESULTS SHOWING THE DETECTION OF COLIFORM BACTERIA

Microbiological Constituents	Highest No. of detections	No. of months in violation	MCL	MCLG	Typical Source of Bacteria
Total Coliform Bacteria	(In a mo.) 0	0	More than 1 sample in a month with a detection	0	Naturally present in the environment
E. coli	(In the year) 0	0	A routine sample and a repeat sample detect total coliform and either sample also detects fecal coliform or *E. coli*	0	Human and animal fecal waste

TABLE 2 – CUSTOMER TAP SAMPLING RESULTS FOR LEAD AND COPPER

Lead and Copper (reporting units)	No. of samples collected	90th percentile level	No. of sites exceeding AL	AL	PHG	Typical Source of Constituents
Lead (ppb) 8/14/2025	5	2.6	0	10	0.2	Internal corrosion of household water plumbing systems; discharges from industrial manufacturers; erosion of natural deposits
Copper (ppm) 8/14/2025	5	0.94	0	1.3	0.30	Internal corrosion of household water plumbing systems; erosion of natural deposits; leaching from wood preservatives

TABLE 3 - SAMPLING RESULTS FOR SODIUM AND HARDNESS IN SOURCE

Constituent (reporting units)	Sample Date	Average Detected	Range of Detections	MCL	PHG (MCLG)	Typical Source of Constituent
Sodium (ppm)	Quarterly 2025	24	12-40	None	None	Salt present in water; naturally occurring in ground & surface water
Hardness (ppm)	Quarterly 2025	171	127-197	None	None	Sum of cations in water; naturally occurring

TABLE 4 - DETECTION OF CONSTITUENT WITH A PRIMARY DRINKING WATER STANDARD IN SOURCE

Constituent (reporting units)	Sample Date	Average Detected	Range of Detections	MCL [MRDL]	PHG (MCLG) [MRDLG]	Typical Source of Constituent
Barium (ppm)	Quarterly 2025	0.047	0.037-0.055	1.0	2.0	Erosion of natural deposits; Industrial wastes
Fluoride (ppm)	Quarterly 2025	0.68	0.63-0.75	2.0	1.0	Erosion of natural deposits; water additive which promotes strong teeth
Nitrate (as Nitrogen) (ppm)	Quarterly 2025	ND	ND-0.10	10	10	Runoff and leaching from fertilizer use, septic tanks, and sewage; erosion of natural deposits
Disinfection Byproducts, Disinfectant Residuals, and Disinfection Byproduct Precursors						
TTHMs (Total Trihalomethanes) (ppb)	Quarterly 2025	76	71-82	80[1]	NA	By-product of drinking water chlorination
Haloacetic Acids (ppb)	Quarterly 2025	15	13-18	60[1]	NA	By-product of drinking water chlorination
Chlorine (ppm)	Monthly 2025	0.49	0.11-0.94	4.0[1]	4.0[1]	Drinking water disinfectant added for treatment

TABLE 5 - DETECTION OF CONSTITUENT WITH A SECONDARY DRINKING WATER STANDARD IN SOURCE

Constituent (reporting units)	Sample Date	Average Detected	Range of Detections	MCL	PHG (MCLG)	Typical Source of Constituent
Aluminum (ppb)	Quarterly 2025	39	25-63	200	NA	Erosion of natural deposits; residual from some surface water treatment processes
Chloride (ppm)	Quarterly 2025	12	8.1-14	500	NA	Runoff/leaching from natural deposits; seawater influence
Odor (ton)	Quarterly 2025	1.4	1.4	3	NA	Naturally-occurring organic matter
Specific Conductance (µS/cm)	Quarterly 2025	410	335-501	1600	NA	Substances that form ions when in water; seawater influence
Sulfate (ppm)	Quarterly 2025	46	26-66	500	NA	Runoff/leaching from natural deposits; industrial wastes
Total Dissolved Solids (ppm)	Quarterly 2025	231	180-280	1000	NA	Runoff/leaching from natural deposits
Turbidity (ntu)	Quarterly 2025	0.06	0.04-0.08	0.30	NA	Soil runoff

(1) Compliance is based on a locational running annual average (LRAA).

For Systems Providing Surface Water as a Source of Drinking Water:

TABLE 7 - SAMPLING RESULTS RELATED TO TREATMENT OF SURFACE WATER SOURCES	
Treatment Technique [a] (Type of approved filtration technology used)	Conventional Filtration
Turbidity Performance Standards [b] (that must be met through the water treatment process)	Turbidity of the filtered water must: 1 – Be less than or equal to 0.3 NTU in 95% of measurements in a month. 2 – Not exceed 1.0 NTU for more than one continuous hour.
Lowest monthly percentage of samples that met Turbidity Performance Standard No. 1.	100%
Highest single turbidity measurement during the year	0.078 NTU
Number of violations of any surface water treatment requirements	0

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

(a) A required process intended to reduce the level of a contaminant in drinking water.

(b) Turbidity (measured in NTU) is a measurement of the cloudiness of water and is a good indicator of water quality and filtration performance.

Additional General Information on Drinking Water

All drinking water, including bottled water, may reasonably be expected to contain at least some small amounts of contaminants. The presence of contaminants, in low levels, does not necessarily indicate that the water poses a health risk.

Some people may be more vulnerable to contaminants in drinking water than the rest of the general population. Immune-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.

Lead

If lead is present in elevated levels, it 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. SID-Peabody 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 about 30 seconds to 2 minutes before using water for drinking or cooking. If you are concerned about lead in your water, you may want 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 or at http://epa.gov/safewater/lead .