

SID-Blue Ridge Public Water System 2020 Annual Water Quality Report

Solano Irrigation District welcomes this yearly opportunity to communicate our commitment to delivering quality water to our SID-Blue Ridge Public Water System customers. Your surface water is purchased from the City of Fairfield, and comes from Lake Berryessa, and the Sacramento River Delta. Public involvement in SID decisions is welcome. SID Board meetings are held regularly the third Tuesday of the month at 7:00 p.m. at 810 Vaca Valley Parkway, Suite 201, Vacaville, CA 95688.

This report tells 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 at 707-455-4021.

For more information, contact Sue Murphy, Water Quality Specialist, 707-455-4021.

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)

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

pCi/L: picocuries per liter

μS/cm: microsiemens per centimeter

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

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, 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.

IABLE I	SAMPLING	RESULTS	SHOWING TI	HE DETECT	TION OF (COLIFORM BACTERIA
Microbiological Constituents	Highest No. of detections	No. of months in violation	MC	L	MCLG	Typical Source of Bacteria
Total Coliform Bacteria	(In a mo.)	0	More than 1 sample in a month with a detection		0	Naturally present in the environment
E. coli	(In the year)	0	A routine sample and a repeat sample detect total coliform and either sample also detects fecal coliform or <i>E. coli</i>		0	Human and animal fecal waste
TA	BLE 2 – CUS	TOMER T	AP SAMPLING	G RESULTS	FOR LEA	D AND COPPER
Lead and Copper	No. of	90 th	No. of sites	AL	PHG	Typical Source of Constituents
(reporting units)	samples collected	percentile level	exceeding AL		Tho	Typical Source of Constituents
(reporting units) Lead (ppb) 7/21/2020	•		exceeding AL 0	15	2	Internal corrosion of household water plumbing systems; discharges from industrial manufacturers; erosion of natural deposits

TA	BLE 3 - SAM	PLING RES	SULTS FOR S	SODIUM AN	ND HARDN	ESS IN SOURCE
Constituent (reporting units)	Sample Date	Average Detected	Range of Detections	MCL	PHG (MCLG)	Typical Source of Constituent
Sodium (ppm)	Quarterly 2020	25	18-31	None	None	Generally found in ground & surface water
Hardness (ppm)	Quarterly 2020	127	62-178	None	None	Generally found in ground & surface water
TABLE 4 - DETECT	TION OF CO	NSTITUEN'	T WITH A <u>P</u> F	RIMARY DI	RINKING W	ATER STANDARD IN SOURCE
Constituent (reporting units)	Sample Date	Average Detected	Range of Detections	MCL [MRDL]	PHG (MCLG) [MRDLG]	Typical Source of Constituent
Aluminum (ppm)	Quarterly 2020	0.04	0.02-0.10	1	0.6	Erosion of natural deposits; residue from some surface water treatment processes
Fluoride (ppm)	Quarterly 2020	0.73	0.63-0.83	2.0	1	Erosion of natural deposits; water additive which promotes strong teeth
Disinfection Byproducts, I	Disinfectant Resi	iduals, and D	isinfection Byp	roduct Precui	rsors	1
TTHMs (Total Trihalomethanes) (ppb)	Quarterly 2020	77	62-84	801	NA	By-product of drinking water chlorination
Haloacetic Acids (ppb)	Quarterly 2020	21	15-29	601	NA	By-product of drinking water chlorination
Chlorine (ppm)	Monthly 2020	0.95	0.21-1.47	[MRDL = 4.0 (as Cl ₂)]	[MRDLG = 4 (as Cl ₂)]	Drinking water disinfectant added for treatment
TABLE 5 - DETECTI	ON OF CONS	STITUENT	WITH A <u>SEC</u>	CONDARY I	DRINKING	WATER STANDARD IN SOURCE
Constituent (reporting units)	Sample Date	Average Detected	Range of Detections	MCL	PHG (MCLG)	Typical Source of Constituent
Aluminum (ppm)	Quarterly 2020	0.04	ND-0.10	0.2	NA	Erosion of natural deposits; residual from some surface water treatment processes
Chloride (ppm)	Quarterly 2020	15	10.0-26.5	500	NA	Runoff/leaching from natural deposits; seawater influence
Odor (units)	Quarterly 2020	1.4	ND-1.4	3	NA	Naturally-occurring organic materials
Specific Conductance (µS/cm)	Quarterly 2020	349	238-489	1600	NA	Substances that form ions when in water; seawater influence
Sulfate (ppm)	Quarterly 2020	32.8	24.3-41.6	500	NA	Runoff/leaching from natural deposits; industrial wastes
Total Dissolved Solids (ppm)	Quarterly 2020	211	188-241	1000	NA	Runoff/leaching from natural deposits
Turbidity (units)	Quarterly 2020	0.05	0.04-0.08	5	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 <u>0.3</u> NTU in 95% of measurements in a month. 2 – Not exceed <u>1.0</u> 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	0.13 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

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.

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.

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. SID-Peabody is responsible for providing high quality drinking water, but cannot control the variety of materials used in plumbing components. When your water is 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 my 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 or at http://epa.gov/safewater/lead.