SID-Stocking Ranch Public Water System
2014 Annual Water Quality Report

Solano Irrigation District welcomes this yearly opportunity to communicate our commitment to delivering quality water to our SID-Stocking Ranch Public Water System customers. Your ground water is supplied from one well in your local area. 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 the groundwater well was completed in 2003. The source is considered most vulnerable to the following activities not associated with any detected contaminants: above ground storage tanks, metal plating/finishing, or fabricating.

For more information, contact Thomas S. Campbell-Water Treatment/Water Quality Supervisor, 707-455-4030.

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

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 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 (State Board) prescribe regulations that limit the amount of certain contaminants in water provided by public water systems. State Board regulations also establish limits 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. The State Board 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 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 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 detected	No. of sites exceeding AL	AL	PHG	Typical Source of Constituent
Lead (ppb) 7/28/2012	5	5.22	0	15	0.2	Internal corrosion of household water plumbing systems
Copper (ppm) 7/25/2012	5	0.38	0	1.3	0.3	Internal corrosion of household water plumbing systems

TABLE 3 - SAMPLING RESULTS FOR SODIUM AND HARDNESS

Constituent (reporting units)	Sample Date	Average Level Detected	Range of Detections	MCL	PHG (MCLG)	Typical Source of Constituent
Sodium (ppm)	5/15/2014	86	86	none	none	Salt present in the water and is generally naturally occurring
Hardness (ppm)	5/15/2014	76	76	none	none	Sum of cations present in the water

TABLE 4 - DETECTION OF CONSTITUENTS WITH A PRIMARY DRINKING WATER STANDARD						
Constituent (reporting units)	**Sample Date**	**Average Level Detected**	**Range of Detections**	**MCL [MRDL]**	**PHG (MCLG) [MRDLG]**	**Typical Source of Constituent**
Arsenic (ppb)	5/15/2014	6.7	6.7	10	0.004	Erosion of natural deposits; residue from some surface water treatment processes
Barium (ppm)	5/15/2014	0.11	0.11	1	2	Discharge of oil drilling wastes, metal refineries; erosion of natural deposits
Disinfection Byproducts, Disinfectant Residuals, and Disinfection Byproduct Precursors in Distribution System						
Total Trihalomethanes (ppb)	7/9/2014	2.1	2.1	80	NA	By-product of drinking water chlorination
Haloacetic Acids (ppb)	7/9/2014	ND	ND	60	NA	By-product of drinking water chlorination
Chlorine (ppm)	Monthly 2014	0.52	ND-1.4	[4.0]	[4]	Drinking water disinfectant added for treatment

TABLE 5 - DETECTION OF CONSTITUENTS WITH A SECONDARY DRINKING WATER STANDARD						
Constituent (reporting units)	**Sample Date**	**Average Level Detected**	**Range of Detections**	**MCL**	**PHG (MCLG)**	**Typical Source of Constituent**
Chloride (ppm)	5/15/2014	9.3	9.3	500	NA	Runoff/leaching from natural deposits; seawater influence
Iron (ppb)	5/15/2014	170	170	300	NA	Leaching from natural deposits; industrial wastes
Manganese (ppb)	5/15/2014	83*	83*	50	NA	Leaching from natural deposits
Specific Conductance (µS/cm)	5/15/2014	480	480	1600	NA	Substances that form ions when in water; seawater influence
Sulfate (ppm)	5/15/2014	24	24	500	NA	Runoff/leaching from natural deposits; industrial wastes
Total Dissolved Solids (ppm)	5/15/2014	280	280	1000	NA	Runoff/leaching from natural deposits
Turbidity (units)	5/15/2014	0.59	0.59	5	NA	Soil runoff

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

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**.

Summary Information for Constituents Exceeding an MCL, MRDL, or AL, or a Violation of Any Treatment Technique or Monitoring and Reporting Requirement

* Manganese was found at levels that exceed the secondary MCL of 50 ppb. The manganese MCL was set to protect you against unpleasant aesthetic effects (e.g., color, taste, odor) and the staining of plumbing fixtures (e.g., tubs and sinks) and clothing while washing. The high manganese levels are due to leaching of natural deposits.

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. More information about contaminants, potential health effects, and reducing risks can be obtained by calling the USEPA's 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-Stocking Ranch 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 .

Response to Drought

As many of you are aware, the State of California is experiencing a devastating drought and statewide water supplies are very limited. In response to this critical situation, Governor Edmund G. Brown Jr. issued an Executive Order, on April 1, 2015, directing the State Water Resources Control Board (Water Board) to impose restrictions on Urban Water Suppliers to achieve a 25 percent reduction in statewide potable usage through February 2016. As a result, the Water Board adopted Resolution No. 2015-0032 – Emergency Regulation for Statewide Urban Water Conservation, on May 5, 2015. In summary, the recently adopted regulation requires the Solano Irrigation District to reduce potable water consumption by 25%. Information about SID's water conservation efforts and mandates can be located at www.sidwater.org/Strivefor25 .