our water provider, the Suisun-Solano Water Authority, welcomes this yearly opportunity to communicate our commitment to delivering quality water to our customers through this Annual Water Quality Report. The water system is a partnership between the City of Suisun City and Solano Irrigation District, a special purpose public agency. There are currently over 8,609 service connections, and the system delivered over 1.058 billion gallons of water in 2015.

A Drinking Water Source Assessment for the Putah South Canal was completed in 2001. The source water is considered most vulnerable to illegal activities such as unauthorized dumping, and herbicide application. No chemicals associated with these activities have been detected. You may request a summary of the assessment at 707-455-4021.

Public involvement in water quality decisions is welcomed. The public is encouraged to attend meetings. If you wish to do so, please call City Hall at 707-421-7300, and ask them to place your name on the mailing list for **Board meetings.**

Este informe contiene información muy importante sobre su agua potable. Tradúzcalo ó hable con alguien que lo entienda bien.

Suisun-Solano Water Authority 701 Civic Center Blvd. Suisun City, CA, 94585 (707) 421-7300





The water source for this system is surface water from Lake Berryessa. The Putah South Canal transports this water to the Cement Hill Water Treatment Plant where it is treated to drinking water standards before distribution

The water distribution system includes four above ground steel tanks. Collectively, these tanks can store up to 6.5 million gallons of water. The Cement Hill Water Treatment Plant is designed with emergency diesel powered back-up generators that provide electricity for the pumps in the event of a power outage.

Water Treatment

The Cement Hill Water Treatment Plant can process up to 10 million gallons of water per day. The facility includes three clarifiers, for coagulation, flocculation, and sedimentation processes, followed by ten dual-media pressure filters that clean the water to meet strict standards of clarity. Throughout the processes, chemical additions help with coagulation, sedimentation, and filtering of the water supply. Chlorine is added to your



water to meet surface water treatment and water quality regulations.

Urban Water Management Plan update

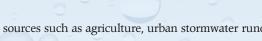
The Urban Water Management Plan (UWMP) and required 5 year updates are prepared to provide the Department of Water Resources (DWR) and the public with information on present and future water sources and demands and to provide an assessment of SSWA's water resource needs. Specifically, the UWMP must provide water supply planning for a 20-year planning period in 5-year increments. The last approved UWMP from June 14, 2011 has been updated to include current drought conditions, and is scheduled to be approved by the SSWA board in August 2016. Public meetings will be held this summer to encourage participation in the management of present and future water supplies. Water reliability, future demands, water conservation targets, and drought strategies will be discussed. Your

bottled water) may 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, 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.

Your Drinking Water Meets and Exceeds All EPA and California Health Standards

Suisun-Solano Water Authority

Drinking Water

Quality Report

2015

Only Tap Water Delivers Public Health Protection
 Fire Protection

Support for the Economy • Quality of Life •

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, 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, USEPA and the California Department of Public Health prescribe regulations that limit the amount of certain contaminants in water provided by public water systems. Regulations also establish limits for contaminants in bottled water that must 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.

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.

More information about contaminants and potential health effects can be

continues

If you have any questions about this report or the quality of the water delivered by Suisun-Solano Water Authority, please contact Sue Murphy, **Water Quality Specialist** at 707-455-4021

Suisun-Solano Water Authority 2015 Annual Water Quality Report

obtained by calling the **Environmental Protection Agency's Safe Drinking**

Water Hotline 1-800-426-4791. You may also want to access the EPA's drinking water web site

www.epa.gov/safewater.

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. SSWA 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.

*Upon notification of the present total coliform, absent e. coli results from the laboratory, an inspection of the sampling procedures and locations was performed. ALL locations were immediately resampled the same day, including additional samples upstream and downstream. ALL repeat samples were found to be absent of total coliforms, and absent of e. coli. ALL dedicated sampling stations were upgraded, and there have been no further present total coliform results.



Terms Used in This Report

AL-Action Level:

The concentration of a contaminant which, if exceeded, triggers treatment or other requirements which a water system must follow.

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 (USEPA).

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.

μS/cm: Microsiemens per Centimeter

NA: not applicable

ND: not detectable at testing limit

NL-Notification Level:

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.

NTU -Nephelometric Turbidity Units:

The standard unit for turbidity measurements.

pCi/L: picocuries per liter (a measure of radiation)

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 (ug/L)

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

TT-Treatment Technique:

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



Evaluating Your Drinking Water — The tables below list all of the drinking water constituents that were detected during the most recent sampling. The presence of these constituents in the water does not necessarily indicate that the water poses a health risk. The Health Department allows systems to monitor for certain constituents less than once per year because the concentrations of these constituents 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.) 5	1*	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	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)8/24/2014	31	ND	0	15	2	Corrosion of household water plumbing systems; erosion of natural deposits
Copper (ppm)8/24/2014	31	0.11	0	1.3	0.30	Corrosion of household water plumbing systems; erosion of natural deposits

TAble 3 - sampling results for sodium and hardness

mile 5 Juniping County for Southern with the Miles								
Constituent (reporting units)	Sample Date	AverageLevel Detected	Range of Detections	MCL	PHG(MCLG)	Typical Source of Constituent		
Sodium (ppm)	3/11/2015	12	12	none	none	Generally found in ground & surface water		
Hardness (ppm)	3/11/2015	170	170	none	none	Generally found in ground & surface 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	
Barium (ppm)	3/11/2016	0.052	0.052	1	2	Erosion of natural deposits	
Chromium (total) (ppb)	Quarterly 2015	0.30	0.22-0.36	50	(100)	Erosion of natural deposits	
Chromium-6 (ppb)	Quarterly 2015	0.19	ND-0.25	10	0.2	Erosion of natural deposits	
Copper (ppm)	3/11/2015	0.012	0.012	(AL=1.3)	0.3	Corrosion of household water plumbing systems; erosion of natural deposits	
Disinfection Byproducts, Disinfectant Residuals, and Disinfection Byproduct Precursors in Distribution System							
Total Trihalomethanes (ppb)	Quarterly 2015	80	38-92	801	NA	By-product of drinking water chlorination	
Haloacetic Acids (ppb)	Quarterly 2015	49.5	33-74	601	NA	By-product of drinking water chlorination	
Chlorine (ppm)	Weekly 2015	0.57	0.50-0.80	[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)	3/11/2015	11	11	500	NA	Runoff/leaching from natural deposits; seawater influence
Color (units)	3/11/2015	5.0	5.0	15	NA	Naturally-occurring organic materials
Copper (ppm)	3/11/2015	0.012	0.012	1.0	NA	Erosion of natural deposits
Odor (units)	3/11/2015	1.5	1.5	3	NA	Naturally-occurring organic matter
Sulfate (ppm)	3/11/2015	22	22	500	NA	Runoff/leaching from natural deposits; industrial wastes
Specific Conductance (µS/cm)	3/11/2015	360	360	1600	NA	Substances that form ions when in water; seawater influence
Total Dissolved Solids (ppm)	3/11/2015	200	200	1000	NA	Runoff/leaching from natural deposits

TABLE 6 – DETECTION OF UNREGULATED CONSITUENTS

Constituent (reporting units)	Sample Date	Average Level Detected	Range of Detections	Notification Level	Typical Source of Constituent
Chlorate (ppb)	Quarterly 2015	102	ND-260	800	By-product of water treatment
Strontium (ppb)	Quarterly 2015	174	160-190	4,000	Naturally-occuring metal
Vanadium (ppb)	Quarterly 2015	2.4	1.6-3.1	50	Naturally-occuring metal

TABLE 7 - SAMPLING RESULTS SHOWING TREATMENT OF SURFACE WATER SOURCES

Treatment Technique (a) (Type of approved filtration technology used)

Total Organic Carbon (ppm)

Monthly 2015

Turbidity Performance Standards (b) (must be met through the water treatment process)

Lowest monthly percentage of samples that met Turbidity Performance Standard No. 1.

Highest single turbidity measurement during the year

Number of violations of any surface water treatment requirements

Conventional Filtration

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 5.0 NTU at any time.

100 % 0.171 NTU 0

Various natural and

manmade sources

(1) Compliance is based on a running annual average (RAA) of distribution samples collected in 4 quarters.

(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. Turbidity results which meet performance standards are considered to be in compliance with filtration requirements.