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 8,436 service connections, and the system delivered over 1.21 billion gallons of water in 2014.

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.

Your Water Source and Supply Facilities

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 to our customers.

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

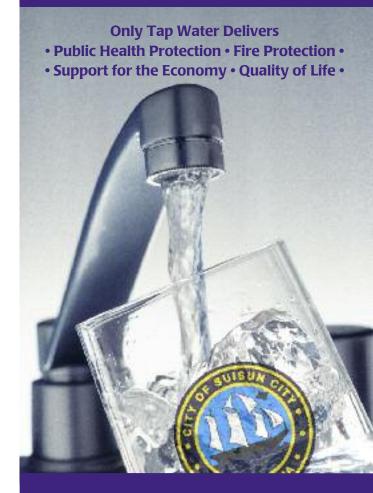
water to meet surface water treatment and water quality regulations.

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 Suisun-Solano Water Authority to reduce potable water consumption by 28%. Information about SSWA's water conservation efforts and mandates can be located at www.suisun.com/water-conservation or at Suisun City Hall.



Suisun-Solano Water Authority Drinking Water Quality Report 2014



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

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, 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. Department regulations also establish limits for contaminants in bottled water that must provide the same protection for public health. Drinking water, including bottled water, may

standards of clarity. Throughout the processes, chemical additions help with coagulation, sedimentation, and filtering of the water supply. Chlorine is added to your



A Message from the Environmental Protection Agency

The sources of all drinking water (both tap water and 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

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 Thomas S. Campbell, Water Treatment/Water Quality Supervisor at 707-455-4030

Suisun-Solano Water Authority 2014 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.



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.



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.) 1	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 E. coli					
TABLE 2 – CUSTOMER TAP SAMPLING RESULTS FOR LEAD AND COPPER						

Lead and Copper (reporting units)	No. of samples collected	90th percentile level detected	No. sites exceeding AL	AL	PHG	Typical Source of Constituent
Lead (ppb) 8/24/2014	31	ND	0	15	2	Internal corrosion of household water plumbing systems; discharges from industrial manufacturers; erosion of natural deposits
Copper (ppm) 8/24/2014	31	0.11	0	1.3	0.30	Internal corrosion of household water plumbing systems; ero- sion of natural deposits; leach- ing from wood preservatives

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)	3/13/14	11	11	none	none	Generally found in ground & surface water
Hardness (ppm)	3/13/14	170	170	none	none	Generally found in ground & surface water

TABLE 4 - DETECTION OF CONSTITUENTS WITH A PRIMARY DRINKING WATER STANDARD	
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Constituent (reporting units)	Sample Date	Average Level Detected	Range of Detections	MCL [MRDL]	PHG (MCLG) [MRDLG]	Typical Source of Constituent
Hexavalent Chromium (ppm)	9/9/2014 12/10/2014	0.07	ND-0.16	10	0.02	Erosion from natural deposits
Disinfection By	products, Disinfec	tant Residuals, and	d Disinfection By	product Precurs	ors In Distri	ibution System
Total Trihalomethanes (ppb)	Quarterly 2014	58.8	37-84	80 ¹	NA	Byproduct of drinking water chlorination
Haloacetic Acids (ppb)	Quarterly 2014	28.8	17-48	60 ¹	NA	Byproduct of drinking water chlorination
Chlorine (ppm)	Weekly 2014	0.92	ND-1.8	[4.0]	[4]	Drinking water disinfectant added for treatment
Total Organic Carbon (ppm)	Monthly 2014	2.2	1.6-3.8	тт	NA	Various natural and manmade sources

TABLE 5 - DETECTION OF CONSTITUENTS WITH A <u>SECONDARY</u> DRINKING WATER STANDARD

Constituent (reporting units)	Sample Date	Average Level Detected	Range of Detections	MCL [MRDL]	PHG (MCLG)	Typical Source of Constituent
Chloride (ppm)	3/13/2014	10	10	500	NA	Runoff/leaching from natural deposits; seawater influence
Odor (units)	3/13/2014	2.0	2.0	3	NA	Naturally-occuring organic matter
Sulfate (ppm)	3/13/2014	23	23	500	NA	Runoff/leaching from natural deposits; industrial wastes
Specific Conductance (µS/cm)	3/13/2014	350	350	1600	NA	Substances that form ions when in water; seawater influence
Total Dissolved Solids (ppm)	3/13/2014	210	210	1000	NA	Runoff/leaching from natural deposits
Turbidity (NTU)	3/13/2014	0.55	0.55	5	NA	Soil Runoff

TABLE 6 - DETECTION OF UNREGULATED CONSTITUENTS

Range of

Average Level

Typical Source of

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.

(reporting units)	Sample Date	Detected	Detections	Notification Level	Constituent
Chlorate (ppb)	9/9/2014 12/10/2014	45.5	ND-91	800	Oxidant used in pyrotechnics, and possible by-product of water treatment
Strontium (ppb)	9/9/2014 12/10/2014	177.5	170-180	4,000	Naturally-occuring metal
Vanadium (ppb)	9/9/2014 12/10/2014	1.8	1.5-2.0	50	Naturally-occuring metal

TABLE 7 - SAMPLING RESULTS SHOWING TREATMENT OF SURFACE WATER SOURCES

Treatment Technique (a) (Type of approved filtration technology used)	Conventional Filtration					
Turbidity Performance Standards (b) (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 5.0 NTU at any time.					
Lowest monthly percentage of samples that met Turbidity Performance Standard No. 1.	100 %					
Highest single turbidity measurement during the year	0.28 NTU					
Number of violations of any surface water treatment requirements	0					
(1) Compliance is based on a running annual average (RAA) of distribution samples collected in 4 quarters						

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.

Suisun-Solano Water Authority 2014 Annual Water Quality Report

Constituent