



Clean Water for Our Customers

This brochure provides a snapshot of last year's water quality data for San Jose Water (SJW). Included are details about where your water comes from and how your water quality compares to State standards. SJW is pleased to report that your tap water met all USEPA and State primary drinking water health standards in 2020. As a member of the Partnership for Safe Water, SJW remains focused on water quality and environmental stewardship to ensure continued delivery of safe and high quality water to our customers. Since joining the Partnership for Safe Water, SJW has increased distribution system residual disinfectant levels and outperformed industry benchmarks in reducing main breaks. These Partnership-related improvements have contributed to increased water service reliability and enhanced public health protection.







*Photo taken pre-COVID-19.

*Photo taken pre-COVID-19.

Planning for Water Quality Improvements

San Jose Water (SJW) proactively began monitoring all of our wells for Perfluoroalkylated Substances (PFAS) in 2019, in collaboration with the Division of Drinking Water. This monitoring of PFAS was, and continues to be performed, using a newly promulgated analytical method capable of detecting PFAS at the parts per trillion (ppt) level. To put things in perspective, one part per trillion is equivalent to one penny in ten billion dollars.

This monitoring program led to detection of perfluorooctane sulfonate (PFOS), a PFAS compound, in 10 SJW wells at concentrations near or above the California Notification Level of 6.5 ppt. We immediately removed these 10 wells from service and notified all impacted customers in writing. The health and safety of our customers is always our top priority.

In late 2020, we awarded a competitive contract to a consultant to study PFAS removal at Williams Groundwater Station. Williams Groundwater Station is a critical facility with several wells found to have PFOS concentrations above the Notification Level. In addition to investigating the best PFAS treatment options, the study will provide preliminary design layouts and cost estimates for a recommended treatment system. We are also evaluating combining PFAS treatment with hardness removal. We recognize that many of our customers are not satisfied with the current aesthetic quality of our groundwater.

The results of bench-scale tests from the PFAS treatment study have been very promising — showing excellent removal and indicating lower than expected costs to implement. We are investigating potential expense recovery options that would spare our customers from having to pay for PFAS removal.

In concert with the final stages of the Williams treatment study, we will be conducting customer surveys and virtual outreach sessions to better understand customer willingness to support possible rate increases that would be necessary to pay for reduced hardness in groundwater. We encourage customers to participate in these workshops and surveys to provide us with input on these potential investments in water quality. PFAS treatment and water softening, like other key investments in our system, are born out of a partnership with both our customers and public health officials, with the goal of providing exceptional quality water.



IMPORTANT DEFINITIONS

Detection Limit for Purposes of Reporting (DLR): The lowest level of a constituent that the Department of Public Health requires to be reported.

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.

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 Residual Disinfectant Level (MRDL): The level of a disinfectant added for water treatment that may not be exceeded at consumer's tap.

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.

Not Applicable (N/A): Not applicable.

Not Detected (ND): If a constituent is not measured at or above a DLR, it is reported as ND.

Not Sampled (NS): Source designated nonvulnerable or testing not required.

Notification Level (NL): A non-regulatory, healthbased advisory level for contaminants in drinking water that do not have established Maximum Contaminant Levels. Systems are required to report exceedances to their governing boards and Public Authorities

Primary Drinking Water Standard (PDWS): MCLs and MRDLs for contaminants that affect health along with their monitoring and reporting requirements, and water treatment requirements

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.

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

Response Level (RL): A non-regulatory, precautionary health-based level. Water systems are required to remove from service, provide for any water source exceeding this level.

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

Unregulated Contaminant Monitoring Rule 4 (UCMR4): Testing was conducted in 2019. The purpose of monitoring for these contaminants is to help FPA decide whether the contaminants should have a standard

UNITS

Nephelometric Turbidity Units (NTU): A measure

One part per million (ppm): One milligram per liter (mg/L). One ppm corresponds to a single penny in \$10,000 or one minute in two years

One part per billion (ppb): One microgram per liter (μg/L). One ppb corresponds to a single penny in \$10,000,000 or one minute in 1,900 years

One part per trillion (ppt): One nanogram per liter (ng/L). One ppt corresponds to a single penny in \$10,000,000,000 or one minute in 1.9 million years.

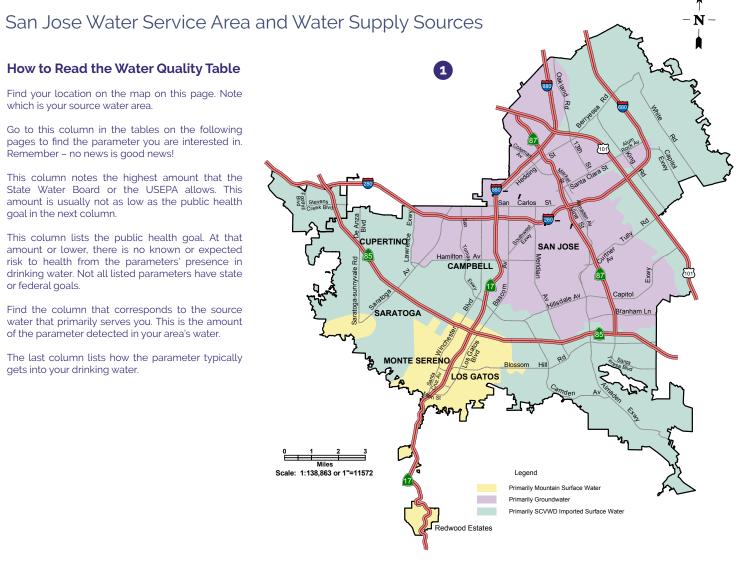
pCi/L: Picocuries per liter, a measure

TON: Threshold Odor Number, a measure

umho/cm: Micromho per centimeter, a measure of electrical conductivity.

How to Read the Water Quality Table

- Find your location on the map on this page. Note which is your source water area.
- Go to this column in the tables on the following pages to find the parameter you are interested in. Remember - no news is good news!
- This column notes the highest amount that the State Water Board or the USEPA allows. This amount is usually not as low as the public health goal in the next column.
- This column lists the public health goal. At that amount or lower, there is no known or expected risk to health from the parameters' presence in drinking water. Not all listed parameters have state or federal goals.
- Find the column that corresponds to the source water that primarily serves you. This is the amount of the parameter detected in your area's water.
- The last column lists how the parameter typically gets into your drinking water.



0 VIOLATIONS IN 2020

The State Division of Drinking Water specifies monitoring frequencies for some parameters less often than annually because the concentrations do not change frequently. Some of our data, though representative, are more than a year old.













2	3	4 5 —								6
PARAMETER UNITS		MCL	PHG	MOUNTAIN SURFACE WATER		GROUNDWATER		VW SURFACE WATER		TYPICAL
			OR (MCLG)	AVERAGE	RANGE	AVERAGE	RANGE	AVERA	GE RANGE	SOURCES
SURFACE WATER PRIOR	TO TREATMEN	NT								
Asbestos	MFL	7	7	ND	ND	ND	ND	1.6	1.6	1, 10
Cryptosporidium	oocysts/L	TT	(0)	ND	ND - 0.30	N/A	N/A	ND	ND - 0.1	8
Giardia	cysts/L	TT	(0)	ND	ND - 0.20	N/A	N/A	ND	ND - 0.1	8
SURFACE WATER TREA	TMENT									
				MAXIMUM		MAXIMUM			MAXIMUM	
	NTU	TT ≤ 1 NTU	N/A		0.17					
Turbidity¹	NTU	TT = 95% of samples ≤ 0.3 NTU	N/A	0.17		N/A N/A		0.26 100%		9
ENTRY POINT SAMPLE	s									
INORGANIC MATERIAL	.s			AVERAGE	RANGE	AVERAGE	RANGE	AVERA	GE RANGE	
Aluminum	ppm	1	0.6	ND	ND	ND	ND	ND	ND - 0.1	1, 3
Arsenic	ppb	10	0.004	ND	ND - 2.4	ND	ND - 4.2	ND	ND ND	1, 2, 4
Barium	ppm	1	2	ND	ND	0.18	ND - 0.34	ND	ND ND	1, 6
Chromium-62	ppb	N/A	0.02	ND	ND	2.6	ND - 4.5	ND	ND ND	1, 6
Fluoride	ppm	2	1	0.143	0.11 - 0.163	O.11 ³	ND - 0.14 ³	0.75	0.4 - 0.94	1, 6, 11
Nickel	ppb	100	12	ND	ND	ND	ND - 12	ND	ND ND	1, 6
Nitrate (as N)	ppm	10	10	ND	ND	2.9	0.56 - 6.2	ND	ND - 0.8	1, 2
RADIONUCLIDES										
Gross Alpha Activity	pCi/L	15	(0)	ND	ND	ND	ND - 5.6	ND) ND	1
Combined Radium	pCi/L	5	(0)	ND	ND	ND	ND - 2.6	ND	ND ND	1
Uranium	pCi/L	20	0.43	ND	ND	ND	ND - 1.3	1.0	1.0	1
VOLATILE ORGANIC CH	HEMICALS									
1,1,1-Trichloroethane	ppb	200	1000	ND	ND	ND	ND - 1.1	ND	ND ND	6
1,1-Dichloroethylene	ppb	6	10	ND	ND	ND	ND - 0.83	ND	ND ND	6
DISINFECTION BY PROD	UCTS									
Bromate	ppb	10	0.1	ND	ND	ND	ND	1.6	ND - 7.9	7
SJW DISTRIBUTION SYS	TEM SAMPLES	;								
DISINFECTION		MRDL	MRDLG		ı	RUNNING AN	INUAL AVERAGE			
Total Chlorine	ppm	4.0 as Cl ₂	4 as Cl2		1.63					12
DISINFECTION BY PROD	UCTS	MCL	PHG			Н	HIGHEST SITE AVERAGE		RANGE	
Total Trihalomethanes ppb		80	N/A	Samples Collected at Designat		gnated	ated 55		2.8 - 61	7
Haloacetic Acids	ppb	60	N/A	Sample Points:			45		ND - 48	7
MICROBIOLOGICAL CON	TAMINANTS	MCL	MCLG				AVERAGE %	Н	IIGHEST MONTHLY %	
Coliform Bacteria	º/o	> 5% of monthly samples positive	o	Samples Collected at Designated Sample Points:		gnated	0.063%		0.27%	8
LEAD AND COPPER		AL	PHG			90th PERCENTILE LEVEL		LEVEL	SITES ABOVE AL	
Lead ppb		15	0.2	Samp	les Collected at	< 5			2	1, 10
Copper	ppm	1.3	0.3	Custor	ners' Taps (2019	9	0.25		0	1, 10













Secondary standards relate to aesthetic qualities such as taste, odor, and color but do not pose any health risk.





PARAMETER	UNITS	SMCL	MOUNTAIN SU	JRFACE WATER	GROUNDWATER		VW SURFACE WATER		TYPICAL
			AVERAGE	RANGE	AVERAGE	RANGE	AVERAGE	RANGE	SOURCES+
Aluminum	ppb	200	ND	ND	ND	ND	ND	ND - 51	1, 3
Chloride	ppm	500	22	20 - 23	50	32 - 65	61	51 - 71	1, 5
Color	CU	15	5.5	<5 - 9	<5	<5 - 10	<5	<5	8
Hardness (as CaCO ₃)	ppm	N/A	190	180 - 200	350	190 - 530	100	84 - 120	1, 8
Hardness (as CaCO ₃)	grains/gal	N/A	11	11 - 12	20	11 - 29	6	5 - 7	1, 8
Iron	ppb	300	ND	ND	ND	ND - 150	ND	ND	1, 4
Manganese	ppb	50	ND	ND - 66 ⁵	ND	ND	ND	ND	1
Odor - Threshold @ 60°C	TON	3	1.3	ND - 7.1 ⁶	ND	ND	ND	ND	3, 8
Sodium	ppm	N/A	25	22 - 26	33	18 - 51	54	43 - 63	1, 5, 8
Specific Conductance	μmho/cm	1600	480	460 - 490	730	460 - 1100	490	390 - 530	1, 5, 8
Sulfate	ppm	500	45	43 - 46	58	32 - 90	58	31 - 73	1, 4
Total Dissolved Solids	ppm	1000	270	260 - 280	460	280 - 660	290	140 - 360	1, 5, 8
Turbidity	NTU	5	0.12	ND - 0.23	0.43	0.11 - 1.0	ND	ND - 0.26	9

NOTIFICATION LEVELS

Notification levels are health-based advisory levels that lack maximum contaminant levels (MCLs). $\label{eq:maximum} % \begin{center} \beg$





PARAMETER	UNITS	NL	RL	MOUNTAIN SURFACE WATER		GROUNDWATER		VW SURFACE WATER	
				AVERAGE	RANGE	AVERAGE	RANGE	AVERAGE	RANGE
Boron	ppb	1000	N/A	ND	ND	160	150 - 160	140	ND - 210
Chlorate	ppb	800	N/A	NS	NS	NS	NS	190	53 - 480
Perfluorohexanesulfonic acid (PFHxS)	ppt	N/A	N/A	ND	ND	ND	ND - 5.3	ND	ND
Perfluorooctyl Sulfonate (PFOS)	ppt	6.5	40	ND	ND	ND	ND - 8.0 ⁷	ND	ND
Vanadium	ppb	50	N/A	ND	ND	4.6	4.4 - 4.9	ND	ND - 4



Unregulated contaminants do not have a drinking water standard set by USEPA. The purpose of monitoring for these contaminants is to help EPA decide whether the contaminants should have a standard.





PARAMETER	UNITS	MOUNTAIN SU	RFACE WATER	GROUNDWATER		
		AVERAGE	RANGE	AVERAGE	RANGE	
Manganese (total)	ppb	6.8	0.84 - 22	<0.4	<0.4 - 5.6	
DISINFECTION BYPRODUCTS		MOUNTAIN SU	JRFACE WATER	DISTRIBUTION SYSTEM		
		AVERAGE	RANGE	AVERAGE	RANGE	
HAA6Br	ppb	3.7	3 - 4.8	10	1.4 - 32	
HAA9	ppb	15	13 - 18	20	1.4 - 43	
Haloacetic Acids	ppb	11	9.7 - 14	12	0.66 - 33	

- ¹ This parameter is only applicable to surface water treatment techniques.
- ² There is currently no MCL for chromium-6. The previous MCL of 10 ppb was withdrawn on September 11, 2017. There is also currently no detection limit for reporting. All results less than 1 ppb are considered ND. SJW is continuing to report the sample results for informational purposes.
- ³ Fluoride was not added to these sources.
- ⁴ State regulations recommend an optimal fluoride level of 0.7 ppm be maintained in fluoridated treated water. Concentrations listed here are provided by San Jose Water's wholesaler.
- ⁵ Compliance is determined by running average which remained below the SMCL level
- ⁶ The high end of the range is comprised of a single sample. SJW was unable to do a followup sample because the plant went offline shortly after it was taken. There were no related taste and odor complaints for customers served by that source.
- Wells above the notification level were removed from service and put into standby. SJW stopped serving water after those results were received. All customers who may have received water from these wells were notified directly by mail.



RANGE <0.4 - 6.7

VW SURFACE WATER

- Typical Sources of Chemical Constituents
 Erosion or leaching of natural deposits
- Runoff and leaching from agriculture
- Residue from some surface water treatment processes
- 4. Industrial waste
- 5. Seawater influence
- Discharge from factories and metal degreasing sites
- 7. By-product of drinking water disinfection
- 8. Naturally present in the environment
- 9. Soil erosion and stream sediments10. Internal corrosion of plumbing systems
- 11. Water additive for promotion of public
- 12. Disinfectant for water treatment

WATER QUALITY GUIDANCE







Source Water Assessment

An original assessment of the drinking water sources for SJW's water system was completed in December 2002 and is updated as new wells are brought online. SJW's wells are considered most vulnerable to one or more of the following activities, which have not been associated with any contaminants detected in the water supply: dry cleaners, automobile gas stations and repair shops, and underground storage tanks. Some of SJW's wells are also considered vulnerable to metal plating and finishing, photo processing/ printing, electrical/electronics manufacturing, chemical/ petroleum processing/storage, known contaminant plumes, and plastics/synthetics producers. SJW's surface supplies are considered most vulnerable to low density septic systems. Imported surface water purchased from Valley Water is considered most vulnerable to a variety of land use practices, such as agricultural and urban runoff, recreational activities, livestock grazing, as well as residential and industrial development. In addition, local sources are vulnerable to potential contamination from commercial stables and historic mining practices. Although these activities exist in areas near one or more of SJW's or Valley Water sources, physical barriers, treatment systems, and monitoring programs are in place to ensure that water supplied to our customers is not . Inorganic contaminants, such as salts and metals, that can adversely affected. Customers seeking additional information are encouraged to contact SJW Customer Service at 408.279.7900.

Special Populations

Some people may be more vulnerable to contaminants in drinking water than the general population. Immunocompromised 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).

Drinking Water Regulation

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. More information about contaminants and potential health effects can be obtained by calling the USEPA's Safe Drinking Water Hotline (1-800-426-4791). 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, which may come from sewage treatment plants, septic systems, agricultural livestock operations, and wildlife.
- 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
- · 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, that can be naturally-occurring or be the result of oil and gas production and mining activities.

Lead

In order to ensure that tap water is safe to drink, the U.S. Environmental Protection Agency (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 for contaminants in bottled water that provide the same protection for public health. 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. San Jose Water 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 30 seconds to 2 minutes before using water for drinking or cooking. If you do so, you may wish to collect the flushed water and reuse it for another beneficial purpose, such as watering plants. If you are concerned about lead in your water, you may 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://www.epa.gov/lead.

Lead sampling in the system

Data from the 2019 round of Lead and Copper Rule (LCR) sampling can be found in the Primary Standards table under Lead and Copper. To make LCR sampling as meaningful as possible, SJW worked with the state Division of Drinking Water and an outside consultant to identify the areas of highest risk for lead exposure from drinking water in our system. Compliance is determined by the 90th percentile of sample results. The 90th percentile for SJW's 2019 lead results was below the lead detection limit, and both lead and copper results met regulatory standards. If you have reason for concern about lead containing fixtures in your home, please feel free to contact us at (408) 279-7900 to request sampling.

Lead Sampling in Schools

In January 2018, Assembly Bill 746 went into effect requiring water utilities to collect lead samples in all daycare, preschool and kindergarten through 12th grade schools on public property to ensure students have access to safe drinking water. If a private school wished to have their water sampled, the head of the school could request lead testing from their water provider. The timeframe for sample collection ended in July of 2019. Over the span of the program, San Jose Water sampled 330 schools in our area, including all schools that requested sampling. Of the schools assessed, four initially had a result above the action level, but each was promptly resolved through corrective actions. For more information about sampling in your child's school, contact your school officials or check out the website at:

https://www.waterboards.ca.gov/drinking_water/certlic/ drinkingwater/leadsamplinginschools.html.

Fluoride

For information on fluoride in your water, please refer to our website at https://www.sjwater.com/customer-care/helpinformation/fluoride, or to see up-to-date concentrations local to vour neighborhood.

Nitrate as Nitrogen (Nitrate-N) in drinking water at levels above 10 mg/L is a health risk for infants of less than six months of age. Such Nitrate-N levels in drinking water can interfere with the capacity of the infant's blood to carry oxygen, resulting in a serious illness; symptoms include shortness of breath and blueness of the skin. Nitrate-N levels above 10 mg/L may also affect the ability of the blood to carry oxygen in other individuals, such as pregnant women and those with certain specific enzyme deficiencies. If you are caring for an infant, or you are pregnant, you should ask advice from your health care provider.

Turbidity

Turbidity is a measure of the cloudiness of the water. We monitor it because it is a good indicator of the effectiveness of our filtration systems.

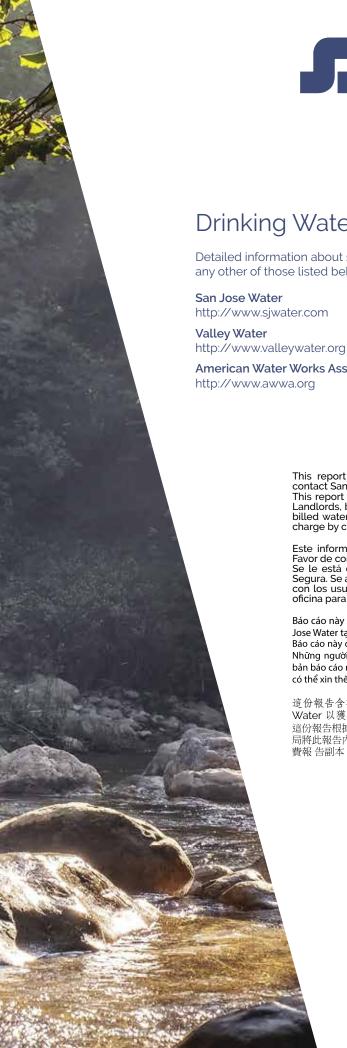
Reminder for Dialysis Patients and Aquarium Owners

Chloramine and chlorine may be present in the water provided by SJW. These chemicals are used to protect public health by destroying disease-causing organisms. Except for a slight chlorinous taste or odor, these disinfectants will not cause any problems for the general public. However, home dialysis patients and aquarium owners must take special precautions before the water can be used in kidney dialysis machines or aguariums. Please consult your doctor or dialysis technician to be sure your home equipment is adequate and proper tests are being performed every time it is used. Before filling an aquarium or fish pond, the disinfectant must be removed. Your local tropical fish store can help determine the best water treatment for your fish.

To Learn More about the Quality of Your Water

Your drinking water is continually tested to ensure compliance with state and federal standards for quality and safety. This annual report summarizes the results of more than 18,000 water quality tests conducted throughout the year. If you have any questions about your water quality, service, or the information contained in this report, please call us at 408.279.7900, Monday to Friday between 8:30AM and 5:30PM. You may also contact the US EPA Safe Drinking Water Hotline at 800.426.4791 for additional public information about the Safe Drinking Water Act or US EPA's drinking water regulatory programs.







San Jose Water Company 110 West Taylor St., San Jose, CA 95110 customer_service@sjwater.com (408) 279-7900 · www.sjwater.com Se Habla Español At your service since 1866

Drinking Water Information on the Internet

Detailed information about specific drinking water topics is available on the Internet Visit our web site or any other of those listed below to find out more about water treatment, quality, and current regulations.

American Water Works Association

SWRCB Division of Drinking Water

https://www.waterboards.ca.gov/drinking_water/programs/

United States Environmental Protection Agency

http://www.epa.gov/ground-water-and-drinking-water

This report contains important information about your drinking water. Please contact San Jose Water at 408.279.7900 for assistancé.

This report is being sent to you in compliance with the Safe Drinking Water Act. Landlords, businesses and schools are encouraged to share this report with non-billed water customers at their locations. Additional copies are available free of charge by calling our office.

Este informe contiene información muy importante sobre su agua para beber. Favor de comunicarse San Jose Water a 408.279.7900 para asistirlo en español. Se le está enviando este informe en conformidad con la Ley de Agua Potable Segura. Se alienta a los propietarios, negocios y escuelas a compartir este informe con los usuarios a los que no se cobra el agúa en sus centros. Llame a nuestra oficina para obtener más copias sin costo.

Báo cáo này chứa thông tin quan trọng về nước uống của bạn. Xin vui lòng liên hệ San Jose Water tai 408.279.7900 để được trợ giúp bằng tiếng Việt.

Báo cáo này được gửi đến quý vị chiếu theo quy định của Đạo Luật Nước Uống An Toàn. Những người cho thuê nhà, chủ doanh nghiệp và nhà trường được khuyến khích chia sẻ bản báo cáo này với những người sử dụng nước tại chỗ nhưng không nhận hóa đơn. Quý vị có thể xin thêm miễn phí bản sao của báo cáo này bằng cách gọi văn phòng chúng tôi.

這份報告含有關於您的飲用水的重要訊息。請用以下地址和電話聯繫 San Jose Water 以獲得中文的幫助: 408.279.7900.

這份報告根據《安全飲用水法案》的規定寄發給您。請房東、企業業主以及學校當 局將此報告內容與其所在地點不會收到水費帳單的自來水用戶分享。如需更多的免 費報告副本,請致電本辦公室。