



City of Millbrae

621 Magnolia Avenue, Millbrae, CA 94030

ANN SCHNEIDER
Mayor

MAURICE GOODMAN
Vice Mayor

ANDERS FUNG
Councilmember

ANGELINA CAHALAN
Councilmember

GINA PAPAN
Councilmember

June 7, 2023

State Water Resources Control Board
Drinking Water Field Operations Branch
850 Marina Bay Pkwy, Bldg. P, 2nd Floor
Richmond, CA 94804-6403

To Whom It May Concern:

Please find the enclosed City of Millbrae 2022 Consumer Confidence Report, a copy of the post card notification that was mailed to all residents and utility customers of the City of Millbrae regarding the availability of the CCR, and the City's corresponding "Consumer Confidence Report Certification Form".

Please let us know if there is anything else that the City needs to submit to meet the compliance requirements for the CCR.

Thank you,

A handwritten signature in blue ink, appearing to read "C. Centis".

Craig Centis
Deputy Public Works Director, Public Works
City of Millbrae
621 Magnolia Ave.
Millbrae, CA 94030
(650) 259-2376-office
(650) 697-8158-fax

APPENDIX B: eCCR Certification Form (Suggested Format)


Consumer Confidence Report Certification Form

(To be submitted with a copy of the CCR)

Water System Name:	City of Millbrae
Water System Number:	CA4110018

The water system named above hereby certifies that its Consumer Confidence Report was distributed on June 30, 2023 (date) to customers (and appropriate notices of availability have been given). Further, the system certifies that the information contained in the report is correct and consistent with the compliance monitoring data previously submitted to the State Water Resources Control Board, Division of Drinking Water (DDW).

Certified by:

Name: Craig Centis	Title: Deputy Public Works Director
Signature: 	Date: MAY 16, 2023
Phone number: 650-259-2374	

To summarize report delivery used and good-faith efforts taken, please complete this page by checking all items that apply and fill-in where appropriate:

- ☐ CCR was distributed by mail or other direct delivery methods (attach description of other direct delivery methods used).
- ☒ CCR was distributed using electronic delivery methods described in the Guidance for Electronic Delivery of the Consumer Confidence Report (water systems utilizing electronic delivery methods must complete the second page).
- ☒ "Good faith" efforts were used to reach non-bill paying consumers. Those efforts included the following methods:
 - ☒ Posting the CCR at the following URL: www.ci.millbrae.ca.us/ccr_____
 - ☐ Mailing the CCR to postal patrons within the service area (attach zip codes used)
 - ☐ Advertising the availability of the CCR in news media (attach copy of press release)
 - ☐ Publication of the CCR in a local newspaper of general circulation (attach a copy of the published notice, including name of newspaper and date published)
 - ☒ Posted the CCR in public places (attach a list of locations): [Millbrae City Hall](#)

- ☐ Delivery of multiple copies of CCR to single-billed addresses serving several persons, such as apartments, businesses, and schools
- ☐ Delivery to community organizations (attach a list of organizations)
- ☐ Publication of the CCR in the electronic city newsletter or electronic community newsletter or listserv (attach a copy of the article or notice)
- ☐ Electronic announcement of CCR availability via social media outlets (attach list of social media outlets utilized)
- ☒ Other (attach a list of other methods used) [Advertised on local cable channel MCTV and posted on water bills.](#)
- ☐ *For systems serving at least 100,000 persons:* Posted CCR on a publicly-accessible internet site at the following URL: www._____
- ☐ *For privately-owned utilities:* Delivered the CCR to the California Public Utilities Commission

Consumer Confidence Report Electronic Delivery Certification

Water systems utilizing electronic distribution methods for CCR delivery must complete this page by checking all items that apply and fill-in where appropriate.

- ☒ Water system mailed a notification that the CCR is available and provides a direct URL to the CCR on a publicly available website where it can be viewed (attach a copy of the mailed CCR notification). URL: www.ci.millbrae.ca.us/CCR_____
- ☐ Water system emailed a notification that the CCR is available and provides a direct URL to the CCR on a publicly available site on the Internet where it can be viewed (attach a copy of the emailed CCR notification). URL: www._____
- ☐ Water system emailed the CCR as an electronic file email attachment.
- ☐ Water system emailed the CCR text and tables inserted or embedded into the body of an email, not as an attachment (attach a copy of the emailed CCR).
- ☐ *Requires prior DDW review and approval.* Water system utilized other electronic delivery method that meets the direct delivery requirement.

Provide a brief description of the water system’s electronic delivery procedures and include how the water system ensures delivery to customers unable to receive electronic delivery.

The City of Millbrae mailed postcard notifications regarding the availability of the CCR to all residents, businesses, and all utility customers of the City of Millbrae. The notification gives the direct URL (www.ci.millbrae.ca.us/CCR) and also provides an option to call 650-259-2374 to request a copy of the report to be mailed directly to the requesting party.
The City has also made arrangements for notifications of the CCR availability to appear on all utility billing statements sent out by the City throughout July and August 2023 and to be advertised on the local cable channel (MCTV) from July 1, 2023-July 30, 2023.

This form is provided as a convenience and may be used to meet the certification requirement of section 64483(c) of the California Code of Regulations.

MILLBRAE CHANNEL 27

VIDEO TEXT REQUEST (For cablecasting printed information only)

Requested by: Craig Centis Date: 06/01/2023
Dept./Division: Public Works Phone: (650) 259-2376

Requested cablecast date(s) & times for message: 07/01/2023 - 07/31/2023

Approved by Director/Manager: _____



Send Completed Forms to: **City Clerk**
Public Information Officer
City Hall, 621 Magnolia Avenue, Millbrae, CA 94030

Every effort will be made to cablecast your message, subject to availability of staff and time limits. All requests shall be subject to review by the City Administrator or Public Information Officer, and must be consistent with the operating policy of the City's government access system (Administrative Standard Procedure 5-2).

Your message may be edited to provide clarity.

MESSAGE: (type below)

The annual City of Millbrae Consumer Confidence Report (CCR) regarding water quality for 2022 now available. The report can be viewed online at www.ci.millbrae.ca.us/CCR or a paper copy can be obtained by calling the Millbrae Public Works Department at (650) 259-2374. The report contains important information about the City's water resources, distribution system and water quality and we encourage you to take an active role in learning about your water sources and quality. Thank you.

Cable Communications Office use only: For Technical Questions:259-2343 or City Clerk:259-2334

Date(s): _____

Time(s): _____

Source/Dir/File: _____

Dear Millbrae Water Customer,

The City of Millbrae Annual Water Quality Report is now available online. Please go to www.ci.millbrae.ca.us/CCR to view your 2022 annual water quality report and learn more about your drinking water. This report contains important information about the source and quality of your drinking water. For a translation of the water quality report or to speak with someone about the report please call (650) 259-2374. If you would like a paper copy of the 2022 Annual Water Quality Report mailed to your home, please call (650) 259-2374.

密爾布瑞市年度水質報告現已在線提供。請遊覽 www.ci.millbrae.ca.us/CCR 查看您的2022年度水質報告，並了解有關自來水的更多信息。本報告包含有關自來水來源和質量的重要信息。如需要翻譯版本或與工作人員談論，請致電（650）259-2374。如果您希望將2022年度水質報告的紙質副本郵寄到您的家中，請致電（650）259-2374。

El Informe Anual de Calidad del Agua de la Ciudad de Millbrae ya está disponible en línea. Por favor, vaya a www.ci.millbrae.ca.us/CCR para ver su informe Anual de Calidad del Agua 2022 y obtenga más información sobre su agua potable. Este informe contiene información importante sobre la fuente y la calidad de su agua potable. Para una traducción del informe de calidad del agua o para hablar con alguien sobre el informe, por favor llame al (650) 259-2374. Si desea una copia en papel del Informe Anual de Calidad del Agua 2022 enviada por correo a su casa, por favor llame al (650) 259-2374.

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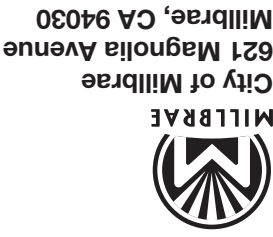
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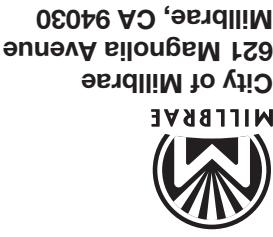
Postal Customer
Millbrae, CA 94030

Postal Customer
Millbrae, CA 94030

PRESORTED STD
U.S. POSTAGE PAID
MILLBRAE, CA
PERMIT NO. 54
ZIP CODE 94030
EGRWSS



PRESORTED STD
U.S. POSTAGE PAID
MILLBRAE, CA
PERMIT NO. 54
ZIP CODE 94030
EGRWSS



CITY OF MILLBRAE

2022 WATER QUALITY REPORT CONSUMER CONFIDENCE



The City of Millbrae Public Works Department is pleased to present to you the 2022 Water Quality Report. Pursuant to federal regulations mandated by the Safe Drinking Water Act, all water consumers are to be provided annual information about their water and its sources.

This report explains the origin of the drinking water supply and the specific treatment(s) it receives by the City of Millbrae, Public Works, Utilities & Operations staff, and the San Francisco Public Utilities Commission (SFPUC).

The City of Millbrae believes it is in everyone's interest to obtain a high quality and reliable water supply. It is integral to personal health, environmental integrity, and community prosperity.

FOR MORE INFORMATION:

City of Millbrae	Public Works Department	650-259-2374	www.ci.millbrae.ca.us
SF Public Utilities Commission (SFPUC)	Customer Service	415-551-3000	www.sftwater.org
SF Water Resources Control Board	Drinking Water	916-449-5577	www.swrcb.ca.gov
US Environmental Protection USEPA	Safe Drinking Water Hotline	800-426-4791	www.epa.gov
American Water Works Association	AWWA Contact Line	800-926-7337	www.aawa.org

PLEASE USE WATER WISELY

Please see the last page of this report for water use guidelines, and water-wise tips and resources.

WATER QUALITY AND YOU

Water quality is extremely important because we cannot survive without a clean and reliable source of it. The City of Millbrae, along with our water supplier, the San Francisco Public Utilities Commission (SFPUC), the California Department of Public Health (CDPH), and the United States Environmental Protection Agency (USEPA) are all working simultaneously to ensure that we provide the highest quality of water, educate water consumers, and encourage their involvement in relevant decisions. Consumers who familiarize themselves with the basic drinking water information contained in this report will be able to participate more effectively in this decision-making process. Together, we can be a great force to promote programs that will aid us in continuing to deliver water that meets the highest possible standards.

MILLBRAE WATER QUALITY ASSURANCE PROGRAM

The Millbrae Water Division conducts a comprehensive water quality assurance program. We collect and report over forty samples a month throughout our system to regularly monitor water quality. We send samples to a state certified laboratory for testing and are pleased to report that all samples have tested negative for coliforms and that the City had (0) zero violations related to any maximum contaminant level (MCL) in the calendar year of 2022.

Other water samples are collected periodically to check for levels of lead and copper, disinfection by-products trihalomethanes haloacetic acids (THMs and HAAs) and general physical components as required by state and federal regulations. The City of Millbrae received a waiver of asbestos sampling.

The City of Millbrae continually monitors all five (5) main entry points to our distribution system and other key points in the distribution system such as tank sites and pump locations. These sites are monitored by our computerized SCADA (Supervisory Control and Data Acquisition) system that provides our Water Division Managers and continuous automated water quality information.

In addition, the Millbrae Water Division along with the San Mateo County Environmental Health Department administers and manages cross-connection prevention program to eliminate possible contamination to our drinking water through backflow prevention devices. The program includes yearly testing all city-owned backflow devices and monitoring of compliance on privately owned backflow devices*

**A note to residents and business owners who have backflow prevention devices: State regulations require that all backflow prevention devices be tested annually by a certified inspector.*

WATERSHEDS PROTECTION



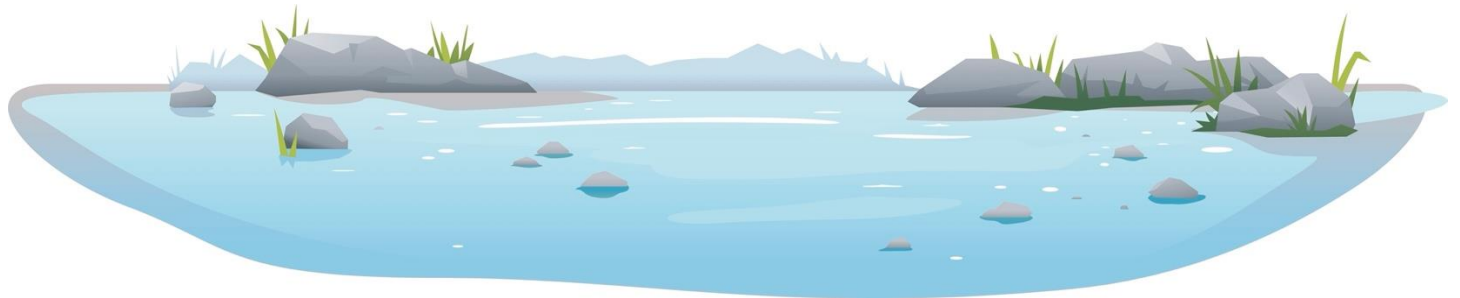
The SFRWS conducts watershed sanitary surveys for the Hetch Hetchy source annually and for non-Hetch Hetchy surface water sources every five years. The latest sanitary surveys for the non-Hetch Hetchy watersheds were completed in 2021 for the period of 2016-2020. All these surveys, together with SFRWS's stringent watershed protection management activities, were completed with support from partner agencies including National Park Service and US Forest Service. The purposes of the surveys are to evaluate the sanitary conditions and water quality of the watersheds and to review results of watershed management activities conducted in the preceding years. Wildfire, livestock, and human activities continue to be potential contamination sources. You may

contact the San Francisco District office of the State Water Resources Control Board's Division of Drinking Water (SWRCB) at 510-620-3474 for the review of these reports.

SPECIAL HEALTH NEEDS

Some people may be more vulnerable to contaminants in drinking water than the general population. Immuno-compromised persons, such as those with cancer undergoing chemotherapy, persons who have undergone organ transplants, people with HIV/AIDS or other immune system disorders, some elderly people and infants, can be particularly at risk from infections.

These people should seek advice about drinking water from their healthcare providers. USEPA/CDC guidelines on appropriate means to lessen the risk of infection by *Cryptosporidium* and other microbial contaminants are available from the USEPA's Safe Drinking Water Hotline 800-426-4791 or at www.epa.gov/safewater.

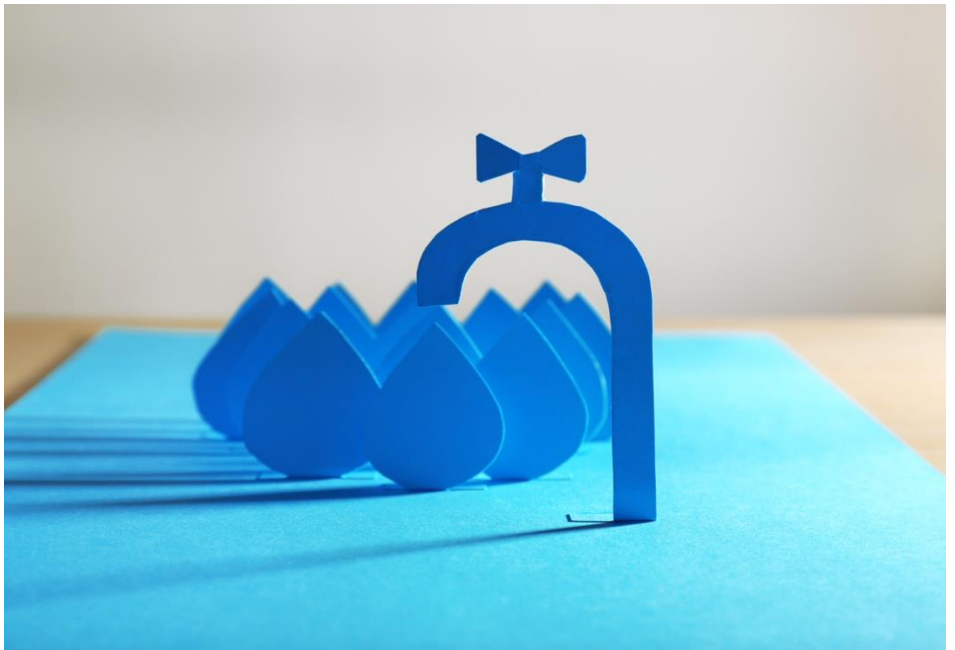


DRINKING WATER & LEAD

Exposure to lead, if present, can cause serious health effects in all age groups, especially for pregnant women and young children. Infants and children who drink water containing lead could have decreases in IQ and attention span and increases in learning and behavior problems. The children of women who are exposed to lead before or during pregnancy can have increased risk of these adverse health effects. Adults can have increased risks of heart disease, high blood pressure, kidney, or nervous system problems.

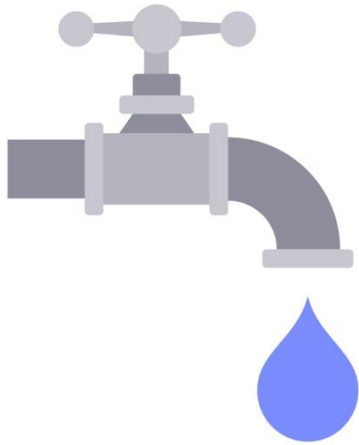
Lead in drinking water is primarily from materials and components associated with service lines and home plumbing. There are no known lead service lines in our water distribution system. We are responsible for providing high quality drinking water and removing lead pipes, but we cannot control the variety of materials used in plumbing components in your home. You share the responsibility for protecting yourself and your family from the lead in your home plumbing. You can take responsibility by identifying and removing lead materials within your home plumbing and taking steps to reduce your family's risk. Before drinking tap water, flush your pipes for several minutes by running your tap, taking a shower, doing laundry or a load of dishes. You can also use a filter certified by an American National Standards Institute accredited certifier to remove lead from drinking water. If you are concerned about lead in your water and may wish to have your water tested, call 650-259-2374. Information about lead in drinking water, testing methods, and steps you can take to minimize exposure is available at USEPA website

www.epa.gov/safewater/lead.



LEAD USER SERVICE LINE (LUSL)

As previously reported in 2018, we completed an inventory of lead user lines (LUSL) in our system and there are no known pipelines and connectors between water mains and meters made of lead. Our policy is to remove and replace any LUSL promptly if it is discovered during pipeline repair and/or maintenance.



LEAD AND COPPER TAP SAMPLING RESULTS

We conducted the triennial Lead and Copper Rule (LCR) monitoring in 2022, and these tap sampling results are accessible at our website link www.ci.millbrae.ca.us/ccr. The next round of LCR monitoring will be conducted after June 1, 2025.

LEAD TESTING OF DRINKING WATER IN SCHOOLS

Lead testing from Millbrae Schools can be found by going to: [Millbrae School District Lead Testing Results](#)



SAN FRANCISCO REGIONAL WATER SYSTEM DRINKING WATER SOURCES AND TREATMENT

Most of our drinking water supply comes from the San Francisco Regional Water System (SFRWS), which is a wholesaler owned and managed by the San Francisco Public Utilities Commission (SFPUC). The supply consists of surface water and groundwater that are well protected and carefully managed by the SFPUC. These sources are diverse in both the origin and the location with the surface water stored in reservoirs located in the Sierra Nevada, Alameda County and San Mateo County, and groundwater stored in a deep aquifer located in the northern part of San Mateo County. Maintaining this variety of sources is an important component of the SFPUC's near- and long-term water supply management strategy. A diverse mix of sources protects us from potential disruptions due to emergencies or natural disasters, provides resiliency during periods of drought, and helps us ensure a long-term, sustainable water supply as we address issues such as climate uncertainty, regulatory changes, and population growth.

To meet drinking water standards for consumption, all surface water supplies including the upcountry non-Hetch Hetchy sources (UNHHS) undergo treatment by the SFRWS before it is delivered. Water from Hetch Hetchy Reservoir is exempt from federal and State filtration requirements but receives the following treatment: disinfection using ultraviolet light and chlorine, pH adjustment for optimum corrosion control, fluoridation for dental health protection, and chloramination for maintaining disinfectant residual and minimizing the formation of regulated disinfection byproducts. Water from local Bay Area reservoirs in Alameda County and UNHHS is delivered to Sunol Valley Water Treatment Plant (SVWTP); whereas water from local reservoirs in San Mateo County is delivered to Harry Tracy Water Treatment Plant (HTWTP). Water treatment at these plants consists of filtration, disinfection, fluoridation, optimum corrosion control, and taste and odor removal.

In 2022, no UNHHS water was used. However, a small amount of groundwater from four wells was added to the SFRWS's surface water supply through blending in the transmission pipelines.



WATER QUALITY

Together with the SFRWS, we regularly collect and test water samples from reservoirs and designated sampling points throughout the system to ensure the water delivered to you meets or exceeds federal and State drinking water standards. In 2022, the SFRWS conducted more than 48,320 drinking water tests in the sources and the transmission system. This is in addition to the extensive treatment process control monitoring performed by SFRWS's certified operators and online instruments.

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. To ensure that tap water is safe to drink, the United States Environmental Protection Agency (USEPA) and the SWRCB prescribe regulations that limit the amount of certain contaminants in water provided by public water systems. The U.S. Food and Drug Administration regulations and California law also establish limits for contaminants in bottled water that provide the same protection for public health.

FLUORIDATION & DENTAL FLUOROSIS

Mandated by State law, water fluoridation is a widely accepted practice proven safe and effective for preventing and controlling tooth decay. Our fluoride target level in the water is 0.7 milligram per liter (mg/L, or part per million, ppm), consistent with the May 2015 State regulatory guidance on optimal fluoride level. Infants fed formula mixed with water containing fluoride at this level may still have a chance of developing tiny white lines or streaks in their teeth. These marks are referred to as mild to very mild fluorosis and are often only visible under a microscope. Even in cases where the marks are visible, they do not pose any health risk. The Centers of Disease Control (CDC) considers it safe to use optimally fluoridated water for preparing infant formula. To lessen this

chance of dental fluorosis, you may choose to use low-fluoride bottled water to prepare infant formula. Nevertheless, children may still develop dental fluorosis due to fluoride intake from other sources such as food, tooth paste and dental products.

Contact your healthcare provider or the SWRCB if you have concerns about dental fluorosis. For additional information about fluoridation or oral health, visit the SWRCB website www.waterboards.ca.gov/drinking_water/certlic/drinkingwater/Fluoridation.shtml, or the CDC website www.cdc.gov/fluoridation.

PER- and POLY-FLUOROALKYL SUBSTANCES (PFAS)

PFAS is a group of approximately 5,000 man-made, persistent chemicals used in a variety of industries and consumer products. In 2022, our wholesaler conducted a second round of voluntary monitoring using a newer analytical method adopted by the USEPA for some other PFAS contaminants. No PFAS were detected above the SWRCB's Consumer Confidence Report Detection Levels in surface water and groundwater sources. For additional information about PFAS, you may visit SWRCB website: <https://www.waterboards.ca.gov/>, SFPUC website: <https://sfpuc.org/>, and/or USEPA website: <https://www.epa.gov/>.

GROUNDWATER STORAGE AND RECOVERY (GSR) PROJECT

Groundwater is a renewable source of naturally-occurring fresh water that is found underground and is replenished primarily by rainfall. The use of groundwater helps diversify water sources and makes drinking water supply even more reliable. The SFRWS completed installation of eight deep-water wells in its GSR project Phase 1. In 2021, some of these wells intermittently delivered water during the startup test to blend with the surface water supply in the north San Mateo County. For the past decade, the SFRWS has collected water quality and quantity data from the Westside Basin aquifer, from which the groundwater is extracted. With extensive monitoring and testing, the SFRWS knows that after adding groundwater to its water supplies, it will continue providing us with high-quality drinking water that meets or exceeds the federal and State regulatory health-based and aesthetic standards.

CONTAMINANTS and REGULATIONS

Generally, the sources of drinking water (both tap water and bottled water) include rivers, lakes, oceans, 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. Such substances are called contaminants, and may be present in source water as:



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.

Organic Chemical Contaminants

Including synthetic and volatile organic chemicals, which are by-products of industrial processes and petroleum production, and can also come from gas stations, urban stormwater runoff agricultural application and septic system.

Radioactive Contaminants

Which can be naturally occurring or be the result of oil and gas production and mining activities

More information about contaminants and potential health effects can be obtained by calling the USEPA's Safe Drinking Water Hotline 800-426-4791 or at www.epa.gov/safewater



STATE REVISED TOTAL COLIFORM RULE

This report reflects changes in drinking water regulatory requirements during 2021, in which the SWRCB adopted California version of the federal Revised Total Coliform Rule. The revised rule, effective on July 1, 2021, maintains the purpose to protect public health by ensuring the integrity of the drinking water distribution system and monitoring for the presence of microbials (i.e., total coliform and *E. coli* bacteria). Greater public health protection is anticipated, as the revised rule requires water systems that are vulnerable to microbial contamination to identify and fix problems. Water systems that exceed a specified frequency of total coliform occurrences are required to conduct an assessment to determine if any sanitary defects exist. If found, these must be corrected by the water system.

KEY WATER QUALITY TERMS

The following are definitions of key terms referring to standards and goals of water quality noted on the data table.

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 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 USEPA.

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 (SMCLs) are set to protect the odor, taste and appearance of drinking water.

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.

Primary Drinking Water Standard (PDWS):

MCLs and MRDLs for contaminants that affect health along with their monitoring and reporting requirements, and water treatment requirements.

Regulatory Action Level:

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

Treatment Technique (TT):

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

Turbidity:

A water clarity indicator that measures cloudiness of the water and is also used to indicate the effectiveness of the filtration system. High turbidity can hinder the effectiveness of disinfectants.

Cryptosporidium is a parasitic microbe found in most surface water. The SFRWS regularly tests for this waterborne pathogen and found it at very low levels in source water and treated water in 2021. However, current test methods approved by the USEPA do not distinguish between dead organisms and those capable of causing disease. Ingestion of *Cryptosporidium* may produce symptoms of nausea, abdominal cramps, diarrhea, and associated headaches. *Cryptosporidium* must be ingested to cause disease, and it may be spread through means other than drinking water.



CITY OF MILLBRAE

WATER QUALITY DATA FOR 2022

This report is a snapshot of last year's water quality. The tables below list detected contaminants in our drinking water in 2022 and the information about their typical sources. Contaminants below detection limits for reporting are not shown, in accord with regulatory guidance. The wholesaler holds a SWRCB monitoring waiver for some contaminants in the surface water supply and therefore their monitoring frequencies are less than annual.

City of Millbrae – SFPUC's Groundwater Quality Data for Year 2022 ⁽¹⁾

CONSTITUENTS WITH SECONDARY STANDARDS	UNIT	SMCL	PHG OR (MCLG)	RANGE OR LEVEL FOUND	AVERAGE	TYPICAL SOURCES IN DRINKING WATER
Treated Water						
Chloride	ppm	500	N/A	4 – 15	9.4	Runoff / leaching from natural deposits
Color	Unit	15	N/A	<5 – 5	<5	Naturally-occurring organic materials
Iron	ppb	300	N/A	<6 – 28	14	Leaching from natural deposits
Manganese	ppb	50	N/A	<2 – 2.7	<2	Leaching from natural deposits
Specific Conductance	μS/cm	1600	N/A	49 – 171	110	Substances that from ions when in water
Sulfate	ppm	500	N/A	1.2 – 15	8	Runoff / leaching from natural deposits
Total Dissolved Solids	ppm	100	N/A	24 – 78	51	Runoff / leaching from natural deposits
Turbidity	NTU	5	N/A	0.1 – 0.2	0.1	Soil runoff

DETECTED CONTAMINANTS	UNIT	MCL	PHG or (MCLG)	RANGE	AVERAGE	TYPICAL SOURCES IN DRINKING WATER
Raw Water (GSR Groundwater Wells)						
INORGANICS						
Chromium (VI)	ppb	N/A	0.02	6.4 – 36	21	Leaching from natural deposits; waste discharges from electroplating
Chromium (Total)	ppb	50	(100)	ND – 31	18	Erosion of natural deposits; discharge from electroplating
Fluoride	ppm	2.0	1	ND – 0.1	ND	Erosion of natural deposits
Manganese	ppb	N/A	N/A	<2 – 21	5.5	Leaching from natural deposits
Nickel	ppb	100	12	ND – 11	ND	Erosion of natural deposits; discharge from metal factories

Nitrate (as Nitrogen)	ppm	10	10	3.1 – 29	12	Landscape fertilizers and leaked wastewater
Perchlorate	ppb	6	1	ND – 3.2	ND	Environmental contamination from use/disposal of fireworks, explosives, and a variety of industries
RADIONUCLIDES						
URANIUM	pCi/L	20	0.43	ND – 1.1	ND	Erosion of natural deposits
OTHER WATER QUALITY PARAMETERS	UNIT	ORL	RANGE	AVERAGE	KEY	
Alkalinity (as CaCO ₃)	ppm	N/A	187	187	GSR = Regional Groundwater Storage and Recovery Project, which is designed to supply groundwater to the system in the northern San Mateo County during dry years.	
Calcium (as Ca)	ppm	N/A	41 – 42	42		
Hardness (as CaCO ₃)	ppm	N/A	296	296		
pH	--	N/A	7 – 8.2	7.8		
Strontium	ppb	N/A	140 – 319	250		

FOOTNOTES ON SAN FRANCISCO REGIONAL WATER SYSTEM – GROUNDWATER WATER QUALITY DATA:

(1) In 2022, none of the GSR wells were used for drinking water production to the system. The water quality data shown in the above tables are for information only.

City of Millbrae – Water Quality Data for Year 2022

DETECTED CONTAMINANTS	UNIT	MCL/TT	PHG OR (MCLG)	RANGE OR LEVEL FOUND	AVERAGE OR [MAX]	TYPICAL SOURCES IN DRINKING WATER
TURBIDITY						
Unfiltered Hetch Hetchy Water	NTU	5	N/A	0.2-0.4 ⁽¹⁾	[3.4]	Soil runoff
Filtered Water form Sunol Valley Water Treatment Plant (SVWTP)	NTU	1 ⁽²⁾ Min 95% of samples ≤0.3 NTU ⁽²⁾	N/A	-	[2.2]	Soil runoff
Filtered Water form Harry Tracy Water Treatment Plant (HTWTP)	NTU	1 ⁽²⁾ Min 95% of samples ≤0.3 NTU ⁽³⁾	N/A	-	[0.1]	Soil runoff
DISINFECTION BYPRODUCTS AND PRECURSOR						
Total Trihalomethanes	ppb	80	N/A	10 – 50	[38] ⁽³⁾	By-product of drinking water disinfection
Five Haloacetic Acids	ppb	60	N/A	3 – 30	[23] ⁽³⁾	By-product of drinking water disinfection
Bromate	ppb	10	0.1	ND – 1.7	[1.3] ⁽⁴⁾	By-product of drinking water disinfection
Total Organic Carbon ⁽⁵⁾	ppm	TT	N/A	1.3 – 3.9	2.3	Various natural and man-made sources
MICROBIOLOGICAL						

Fecal coliform and <i>E. coli</i> ⁽⁶⁾	-	0 Positive Sample	(0)	-	0	Human or animal fecal waste
<i>Giardia lamblia</i>	cyst/L	TT	(0)	0 – 0.04	0.01	Naturally present in the environment
INORGANICS						
Fluoride (source water) ⁽⁷⁾	ppm	2.0	1	ND – 0.8	0.3 ⁽⁸⁾	Erosion of natural deposits; water additive to promote strong teeth
Chlorine (including free chlorine and chloramine)	ppm	MRDL = 4.0	MRDLG = 4	0.8 – 3.6	[3.0] ⁽⁴⁾	Drinking water disinfectant added for treatment

CONSTITUENTS WITH SECONDARY STANDARDS	Unit	SMCL	PHG	Range	Average	Typical sources in Drinking Water
Chloride	ppm	500	N/A	<3 – 11	6.7	Runoff / leaching from natural deposits
Color	Unit	15	N/A	<5 – 5	<5	Naturally-occurring organic materials
Iron	ppb	300	N/A	<6 – 24	11	Leaching from natural deposits
Manganese	ppb	50	N/A	<2 – 2.4	<2	Leaching from natural deposits
Specific Conductance	μS/cm	1600	N/A	37 – 210	140	Substances that form ions when in water
Sulfate	ppm	500	N/A	1.1 – 29	15	Runoff / leaching from natural deposits
Total Dissolved Solids	ppm	1000	N/A	<20 – 104	61	Runoff / leaching from natural deposits
Turbidity	NTU	5	N/A	0.1 – 0.2	0.1	Soil runoff

LEAD AND COPPER ⁽⁹⁾	UNIT	AL	PHG	RANGE	90 TH PERCENTILE	TYPICAL SOURCES IN DRINKING WATER
Copper	ppb	1300	300	ND – 192	145	Internal corrosion of household water plumbing systems
Lead	ppb	15	0.2	ND – 13	11	Internal corrosion of household water plumbing systems

NON-REGULATED WATER QUALITY PARAMETERS	UNIT	ORL	RANGE	AVERAGE
Alkalinity (as CaCO ₃)	ppm	N/A	7.1 – 166	41
Boron	ppb	1000(NL)	28 – 105	56
Calcium (as Ca)	ppm	N/A	3.2 – 15	9.3
Chlorate ⁽¹³⁾	ppb	800 (NL)	45 – 650	147
Hardness (as CaCO ₃)	ppm	N/A	0.22 – 0.27	0.25
Magnesium	ppm	N/A	9.1 – 49	32
pH	-	N/A	0.2 – 4.2	2.9
Phosphate (ortho)	ppm	N/A	8.2 – 9.6	9.2
Potassium	ppm	N/A	0.3 – 1	0.7
Silica	ppm	N/A	5 – 5.9	5.5
Sodium	ppm	N/A	3.5 – 21	14
Strontium	ppb	N/A	16 – 159	79

KEY	
< / ≤	= less than / less than or equal to
AL	= Action Level
Max	= Maximum
Min	= Minimum
N/A	= Not Available
ND	= Non-detect
NL	= Notification Level
NoP	= Number of Coliform-Positive Sample
NTU	= Nephelometric Turbidity Unit
ORL	= Other Regulatory Level
pCi/L	= picocurie per liter
ppb	= part per billion
Ppm	= part per million
μS/cm	= microSiemens / centimeter

FOOTNOTES:

- 1) All results met State and Federal drinking water health standards.
- 2) These are monthly average turbidity values measured every 4 hours daily.
- 3) This is a TT requirement for filtration systems.
- 4) This is the highest locational running annual average value.
- 5) This is the highest running annual average value.
- 6) Total organic carbon is a precursor for disinfection byproduct formation. The TT requirement applies to the filtered water from the SVWTP only.
- 7) System collecting <40 coliform samples monthly report the highest number (not the percentage) of the total coliform positive samples collected in any one month. This MCL was no longer in effect on July 1, 2021.
- 8) The MCL was changed to E. coli based starting on July 1, 2021, when the State Revised Total Coliform Rule became effective.
- 9) The SWRCB recommended an optimal fluoride level of 0.7 ppm be maintained in the treated water. In 2022, the range and average of the fluoride levels were 0.5 ppm – 0.9 ppm and 0.7 ppm, respectively.
- 10) Natural fluoride in the Hetch Hetchy source was ND. Elevated fluoride levels in raw water at the SVWTP and HTWTP were attributed to the transfer of fluoride Hetch Hetchy water into the local reservoirs.
- 11) The most recent Lead and Copper Rule monitoring was in 2022. None of the 30 site samples collected at consumer taps had copper concentrations above the ALs.
- 12) The most recent Lead and Copper Rule monitoring was in 2022. None of the 30 site samples collected at consumer taps had lead concentration above the ALs.
- 13) The detected chlorate in the treated water is a degradation product of sodium hypochlorite used by the SFRWS for water disinfection.

Favor Comuníquese con el departamento de las Obras Públicas al 650-259-2374 para ayuda en español.

本報告包含有關我們自來水的重要信息。請致電 650-259-2374 聯系公共工程部尋求幫助。

WATER CONSERVATION

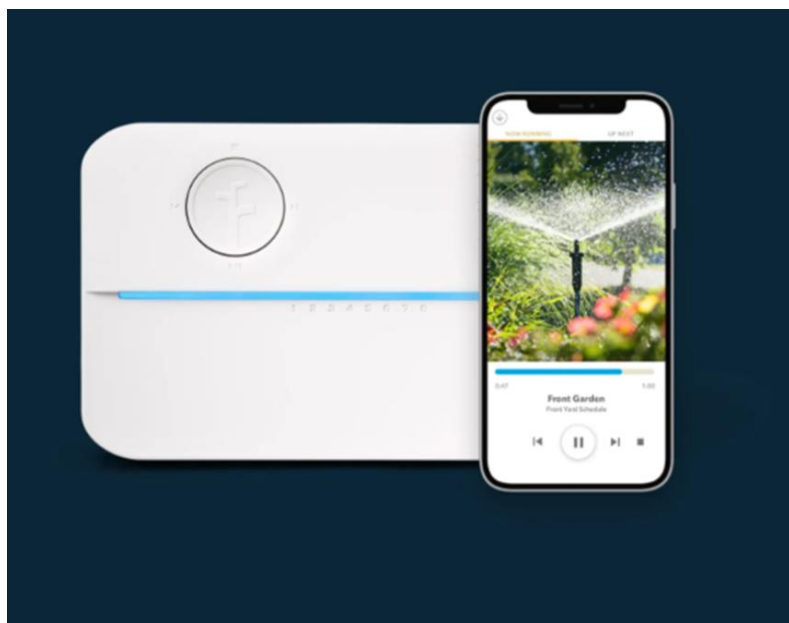
Rain or shine, the City of Millbrae continues to implement a robust water conservation program for our residents and businesses. Water customers are asked to remain vigilant, particularly regarding outdoor water use and manage water use wisely. Millbrae residents and property owners are eligible for the following water conservation rebates.

Water Conservation Rebates

[Rain barrels and cisterns](#): Capture rainwater to use later for watering your plants and other outdoor use. Save up to \$200 off a qualifying barrel.



[Smart irrigation controllers](#): Received a discount on the 4 zone Rachio 3 controller and other controllers. These sprinklers help you monitor and manage watering your lawn from anywhere using a smartphone app. You can create custom schedules, make automatic weather adjustments, and maintain a water efficient yard.



[Lawn Be Gone!](#) Convert your lawn into water-wise landscaping by planting native and drought tolerant plants! The benefits of replacing lawns include reducing outdoor water use and beautifying your landscape. Rebates are offered at \$1.00 per square foot of lawn replaced with native and water-wise plants for a maximum total of 1,000 square feet while available.



Free Water Saving Devices

Available to residents and business owners: 7-pattern deluxe hose nozzle, frog moisture meters, ladybug moisture meters, shower timers, low-flow shower heads, faucet aerators and toilet leak detection dye tablets. Devices can be picked up at City Hall 9:00 am – 4:00 pm.

Please continue to conserve water by following the guidelines and the water saving tips below. California is prone to droughts, and we all need to do our part to conserve water.

Water Saving Tips & Resources

- Install a low flow showerhead and take a 5 minute or less shower. Free showerheads and timers are available.
- Catch water in a watering can or bucket while waiting for water to get hot.
- Replace your toilet with a high-efficiency model (1.28 gallons per flush) or place a water displacement bag in each toilet tank.
- Fix all leaky toilets, faucets, and pipes. Install low flow faucet aerators in the kitchen and bathroom. Free low flow aerators are available.
- Scrape plates and run the garbage disposal less frequently. Compost food scraps.
- Turn off water while brushing your teeth and shaving.

- Run only full loads in dishwashers and clothes washers. Replace appliances with water efficient machines.
- Water lawn and landscaping between 6:00 pm through 10:00 am. Do not over water landscape. Check and adjust sprinkler heads seasonally. Plant drought-tolerant and native plants. Discounts are available for smart irrigation controllers (while supplies last).
<https://bawsca.rachio.com>
- Convert lawns into water-wise landscaping by planting native and drought tolerant plants! The benefits of replacing lawns include reducing outdoor water use and beautifying your landscape. Rebates are available for Lawn Be Gone!
<https://www.ci.millbrae.ca.us/departments-services/public-works/water-conservation>
- Use a carwash facility or use a bucket of water and one short rinse to wash your car: wash on a permeable surface such as gravel.
- Sweep (not hose) driveways patios and sidewalks.
- For more water saving tips, see: <http://saveourwater.com>

For more information, please see www.ci.millbrae.ca.us/waterconservation or call 650-259-2444.