



MID-PENINSULA  
WATER DISTRICT

# 2020

CONSUMER CONFIDENCE REPORT

# CALIFORNIA

## WAY OF LIFE

CONSERVE WATER

# SAVE 10%

MidPeninsulaWater.org

## ABOUT MPWD

### MID-PENINSULA WATER DISTRICT

3 Dairy Lane  
Belmont, CA 94002  
650-591-8941  
[www.MidPeninsulaWater.org](http://www.MidPeninsulaWater.org)

### BOARD OF DIRECTORS

The Board of Directors meets every fourth Thursday of the month at 6:30 p.m. at 3 Dairy Lane, Belmont.

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California Special  
Districts Association  
*Disserve. Strengthen. Together.*

## A California Way of Life

Since 2015, the MPWD has taken important steps to manage water loss through program management, water audits-data sources, validation, and report preparation. This is in addition to consistent water conservation messaging and resources that have helped MPWD customers meet past conservation goals.



After two, consecutive dry winters, the MPWD is encouraging customers to continue their part in voluntary water conservation by reducing outdoor water usage by 10% or more and make it a "California Way of Life!" Please visit [MidPeninsulaWater.org/save10](http://MidPeninsulaWater.org/save10) and learn about all the water conservation resources available to you through the MPWD, including:

- Home Water Use Report: Monitor your water usage online and set up alerts.
- Valuable rebate programs, including the Irrigation Hardware Rebate Program.
- Water saving tips and resources.
- Leak Detection Tool: Step-by-step, online tool to help detect possible water leaks in your home.
- Free online landscape workshops compliments of BAWSCA.
- Free water conservation kits.

## WATER QUALITY

The San Francisco Regional Water System (SFRWS) regularly collects and tests water samples from reservoirs and designated sampling points throughout the sources and the transmission system to ensure the water delivered to you meets or exceeds federal and State drinking water standards. In 2020, SFRWS conducted more than 47,200 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. In order to ensure that tap water is safe to drink, the United States Environmental Protection Agency (USEPA) and the SWRCB-DDW 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. ■



This report contains important information about our drinking water. Translate it, or speak with someone who understands it.  
Este informe contiene información importante sobre nuestra agua potable. Tradúzcalo, o hable con alguien que lo entienda.  
此份水質報告，內有重要資訊。請找他人為你翻譯和解說清楚。

## Drinking Water and 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 you may wish to have your water tested, call Mid-Peninsula Water District at (650) 591-8941 for lead test. Information about lead in drinking water, testing methods, and steps you can take to minimize exposure is available at [www.epa.gov/safewater/lead](http://www.epa.gov/safewater/lead)

As previously reported in 2018, we completed an inventory of lead user service 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 2018, and these tap sampling results are accessible in previous Water Quality Reports available on the MPWD website [MidPeninsulaWater.org](http://MidPeninsulaWater.org). The next round of LCR monitoring will be conducted in 2021. ■

## Protecting Our Watersheds

The San Francisco Regional Water System (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 our 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. Wildlife, stock, and human activities continue to be the potential contamination sources. You may contact the San Francisco District office of the State Water Resources Control Board's Division of Drinking Water (SWRCB-DDW) at 510-620-3474 for the review of these reports. ■

## Fluoridation and Dental Fluorosis

Mandated by State law, water fluoridation is a widely accepted practice proven to be safe and effective for preventing and controlling tooth decay. The 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, toothpaste and dental products.

Contact your healthcare provider or SWRCB-DDW if you have concerns about dental fluorosis. For additional information about fluoridation or oral health, visit the SWRCB-DDW website [waterboards.ca.gov/drinking\\_water/certlic/drinkingwater/Fluoridation.html](http://waterboards.ca.gov/drinking_water/certlic/drinkingwater/Fluoridation.html) or the CDC website [cdc.gov/fluoridation](http://cdc.gov/fluoridation) ■

## Monitoring of Per- and Polyfluoroalkyl Substances (PFAS)

PFAS is a group of approximately 5,000 man-made chemicals used in a variety of industries and consumer products. These chemicals are very persistent in the environment and human body. SFRWS conducted a special round of PFAS monitoring of its surface water sources and transmission system in 2019 and five groundwater wells in 2020 in September 2020. The monitoring effort was entirely proactive and voluntary with the objective to identify if SFRWS's water supplies are impacted by PFAS. Using the State's stringent sampling procedures and based on the approved/certified method of analysis for 18 PFAS contaminants, SFRWS confirmed no PFAS was detected in its water sources and transmission system. Considering USEPA's recent development of a newer method of analysis for additional PFAS contaminants, SFRWS intends to conduct another round of monitoring when the new analytical method is available at its contract laboratory. For additional information about PFAS, visit SWRCB-DDW website [waterboards.ca.gov/pfas](http://waterboards.ca.gov/pfas) and/or USEPA website [epa.gov/pfas](http://epa.gov/pfas) ■

## 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 [epa.gov/safewater](http://epa.gov/safewater) ■

### Questions About Your Water Quality?



Opening a faucet or two in your home or business, or an outside spigot, to let the water run for a couple of minutes should resolve it. Remember to capture the water in a bucket to use for watering indoor plants or outdoor landscaping!

You can now use MPWD's new **Water Quality Self-Diagnostic Tool** to determine possible causes and solutions of typical water quality issues experienced in a home. [MidPeninsulaWater.org/qualitytool](http://MidPeninsulaWater.org/qualitytool)

## 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 or 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. SFRWS regularly tests for this waterborne pathogen and found it at very low levels in source water and treated water in 2020. 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.

## 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 systems,

**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](http://www.epa.gov/safewater)



### MPWD's Mission Statement

The mission of the MPWD is to deliver a safe, high-quality, reliable supply of water for current and future generations in a cost-effective, environmentally-sensitive, and efficient manner.

# MPWD's Water Quality Data for Calendar Year 2020

The table below lists all 2020 detected drinking water contaminants and the information about their typical sources. Contaminants below detection limits for reporting are not shown, in accord with regulatory guidance. SFRWS holds a SWRCB-DDW monitoring waiver for some contaminants in its surface water supply and therefore the associated monitoring frequencies are less than annual.

## DETECTED CONTAMINANTS<sup>1</sup>

TURBIDITY	Unit	MCL	PHG or (MCLG)	Range or Level Found	Average or [Max]	Major Sources in Drinking Water
Unfiltered Hetch Hetchy Water	NTU	5	N/A	0.2 - 0.5 <sup>(2)</sup>	[1.3]	Soil runoff
Filtered Water from Sunol Valley Water Treatment Plant (SVWTP)	NTU	1 <sup>(3)</sup>	N/A	-	[0.4]	Soil runoff
	-	Min 95% of samples $\leq$ 0.3 NTU <sup>(3)</sup>	N/A	99.8% - 100%	-	Soil runoff
Filtered Water from Harry Tracy Water Treatment Plant (HTWTP)	NTU	1 <sup>(3)</sup>	N/A	-	[0.1]	Soil runoff
	-	Min 95% of samples $\leq$ 0.3 NTU <sup>(3)</sup>	N/A	100%	-	Soil runoff
<b>DISINFECTION BYPRODUCTS AND PRECURSOR</b>						
Total Trihalomethanes	ppb	80	N/A	23.1 - 44.1	31.8 <sup>(4)</sup>	Byproduct of drinking water disinfection
Haloacetic Acids	ppb	60	N/A	18 - 30	23 <sup>(4)</sup>	Byproduct of drinking water disinfection
Total Organic Carbon <sup>(5)</sup>	ppm	TT	N/A	1.7 - 3.4	2.9	Various natural and man-made sources
<b>MICROBIOLOGICAL</b>						
Total Coliform <sup>(6)</sup>	-	NoP $\leq$ 5.0% of monthly samples	(0)	-	-	Naturally present in the environment
<i>Giardia lamblia</i>	cyst/L	TT	(0)	0 - 0.05	0.01	Naturally present in the environment
<b>INORGANICS</b>						
Fluoride (source water) <sup>(7)</sup>	ppm	2.0	1	ND - 0.7	0.3 <sup>(8)</sup>	Erosion of natural deposits; water additive to promote strong teeth
Chloramine (as chlorine)	ppm	MRDL = 4.0	MRDLG = 4	0.66 - 3.18	2.41 <sup>(9)</sup>	Drinking water disinfectant added for treatment

### KEY

< /  $\leq$  = 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

$\mu$ S/cm = microSiemens / centimeter

## DETECTED CONTAMINANTS<sup>1</sup>

### CONSTITUENTS WITH SECONDARY STANDARDS

	Unit	SMCL	PHG	Range	Average	Major Sources of Contaminant
Chloride	ppm	500	N/A	<3 - 15	8.7	Runoff / leaching from natural deposits
Specific Conductance	µS/cm	1600	N/A	30 - 260	160	Substances that form ions when in water
Sulfate	ppm	500	N/A	1 - 34	17	Runoff / leaching from natural deposits
Total Dissolved Solids	ppm	1000	N/A	<20 - 137	72	Runoff / leaching from natural deposits
Turbidity	NTU	5	N/A	ND - 0.2	ND	Soil runoff

### LEAD AND COPPER

	Unit	AL	PHG	Range	90th Percentile	Major Sources In Drinking Water
Copper	ppb	1300	300	8.8 - 39.4 <sup>(10)</sup>	67.6	Internal corrosion of household water plumbing systems
Lead	ppb	15	0.2	<1-18 <sup>(11)</sup>	2.7	Internal corrosion of household water plumbing systems

### OTHER WATER QUALITY PARAMETERS

	Unit	ORL	Range	Average
Alkalinity (as CaCO <sub>3</sub> )	ppm	N/A	6.7 - 138	55
Calcium (as Ca)	ppm	N/A	2.9 - 22	12
Chlorate <sup>(12)</sup>	ppb	(800) NL	67 - 1200	262
Hardness (as CaCO <sub>3</sub> )	ppm	N/A	8.0 - 79	45
Magnesium	ppm	N/A	0.2 - 6.8	4.0
pH	-	N/A	8.6 - 9.8	9.3
Potassium	ppm	N/A	0.3 - 1.3	0.8
Silica	ppm	N/A	2.8 - 7	4.8
Sodium	ppm	N/A	2.4 - 22	14
Strontium	ppb	N/A	14 - 242	110



### FOOTNOTES

- (1) All results met State and Federal drinking water health standards and were confirmed by the MPWD.
- (2) These are monthly average turbidity values measured every 4 hours daily.
- (3) There is no turbidity MCL for filtered water. The limits are based on the TT requirements for filtration systems.
- (4) This is the highest locational running annual average value.
- (5) Total organic carbon is a precursor for disinfection byproduct formation. The TT requirement applies to the filtered water from the SWWTP only.
- (6) The Mid-Peninsula Water District had four Total Coliform positives, and zero *E. Coli* (*Escherichia Coliform*) positives in 2020.
- (7) The SWRCB recommended an optimal fluoride level of 0.7 ppm be maintained in the treated water. In 2020, the range and average of the fluoride levels were 0.6 ppm - 0.9 ppm and 0.7 ppm, respectively.
- (8) Natural fluoride in the Hetch Hetchy source was ND. Elevated fluoride levels in raw water for the SWWTP and HTWTP were attributed to the transfer of fluoridated Hetch Hetchy water into the local reservoirs.
- (9) This is the highest running annual average value.
- (10) The most recent Lead and Copper Rule monitoring was in 2018. 0 of 32 site samples collected at consumer taps had copper concentrations above the AL.
- (11) The most recent Lead and Copper Rule monitoring was in 2018. 1 of 32 site samples collected at consumer taps had lead concentrations above the AL. Sample taken from abandoned building.
- (12) The detected chlorate in the treated water is a degradation product of sodium hypochlorite used by the SFRWS for water disinfection.

Additional water quality data may be obtained by calling the Mid-Peninsula Water District at (650) 591-8941 or SFPUC Water Quality Division at (877) 737-8297.



MID-PENINSULA  
WATER DISTRICT

3 Dairy Ln., Belmont, CA 94002



Produced with eco-friendly printing and paper.

# MPWD 2020 CONSUMER CONFIDENCE REPORT

## Our Drinking Water Sources and Treatment

The San Francisco Regional Water System's (SFRWS) major drinking water supply consists of surface water and groundwater that are well protected and carefully managed by the San Francisco Public Utilities Commission (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.

To meet drinking water standards for consumption, all surface water supplies from SFRWS undergo treatment before it is delivered to our customers. Water from the Hetch Hetchy Reservoir is exempt from state and federal filtration requirements but receives

the following treatment: ultraviolet light and chlorine disinfection, 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 San Mateo County is delivered to Sunol Valley Water Treatment Plant (SVWTP) and Harry Tracy Water Treatment Plant (HTWTP), respectively, and is treated by filtration, disinfection, fluoridation, optimum corrosion control and taste and odor removal processes. In 2020, a small amount of groundwater from five of the eight recently completed wells was intermittently added to the SFRWS's surface water supply. ■

