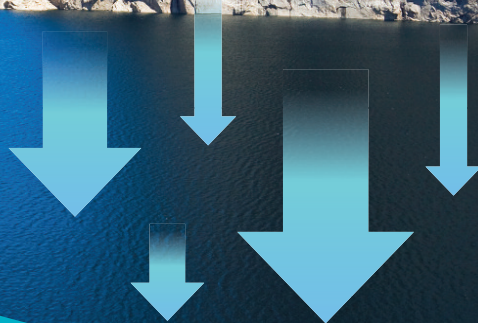


From Source to You!



MidPeninsulaWater.org



ABOUT MPWD

MID-PENINSULA WATER DISTRICT

3 Dairy Lane
Belmont, CA 94002
650-591-8941
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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Our Service Mission: High Quality Water

We here at the Mid-Peninsula Water District (MPWD) sincerely appreciate the opportunity to serve you. The responsibility to serve you high quality water is mission critical here at the MPWD. That involves so much more than just the routine water quality testing and operational standards adhered to here at the MPWD. It includes capital investment and infrastructure rehabilitation and replacement, which has been thoughtfully planned, organized, and implemented.

The MPWD Fiscal Year 2017/2018 Capital Improvement Program (CIP) is coming to a close this month, which included much needed water main and related infrastructure replacements along South Road, Folger Drive, Mezes Avenue, Arthur Avenue, and Karen Road/Dairy Lane. In coordination with the City of Belmont and its Sewer Replacement Program, the MPWD is replacing its water mains and related system infrastructure on Francis Avenue/Court, Belburn/Academy Avenue, and currently working on Davey Glen Road/North Road Cross Country.

Finally, the Fiscal Year 2018/2019 CIP will begin within the next few months, including water system improvements: Tahoe Drive, Notre Dame Loop Closure, Cliffside Court, Desvio Way, Solano Drive, and Altura Way.



All of these capital improvements not only enhance water quality and system sustainability, but also improve fire flows in these areas. Aged cast iron pipes will be replaced with more durable ductile iron pipe, including seismic constraints, and “dead-end” and “cross country” water mains will be abandoned and replaced with water mains that “loop” the system.

So, **thank you** for your contribution as a ratepayer to these system and water quality improvements!

For more information on the MPWD’s CIP and project updates, please visit www.MidPeninsulaWater.org/cip. ■



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.

This report contains important information about our drinking water. Translate it, or speak with someone who understands it.
Este informe contiene información muy importante sobre su agua potable. Tradúzcalo o hable con alguien que lo entienda bien.

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。

Protecting Our Watersheds

The SFPUC conducts watershed sanitary surveys for the Hetch Hetchy source annually and local water sources every five years. The latest local sanitary survey was completed in 2016 for the period of 2011-2015. The SFPUC conducted a watershed sanitary survey for UNHHS in 2015 as part of its drought response plan efforts. These surveys evaluate the sanitary conditions, water quality, potential contamination sources and the results of watershed management activities, and were completed with support from partner agencies including National Park Service and US Forest Service.


These surveys identified wildlife, stock, and human activities as potential contamination sources. You may contact the San Francisco District office of SWRCB-DDW 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 health care 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. ■



Pay Bills Online

With Civic Pay, you can pay your water bill online, set up auto-pay, and choose paperless bill options safely and securely. MidPeninsulaWater.org/billpay

Drinking Water and Lead

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 the SFRWS. We are responsible for providing high quality drinking water, but cannot control the variety of materials used in plumbing components. It is possible that lead levels at your home may be higher than at others in the community as a result of materials used in your home's plumbing.

If present, elevated levels of lead can cause serious health problems, especially for pregnant women and young children. Infants and young children are typically more vulnerable to lead in drinking water than the general population. You can minimize the potential for lead exposure, when your water has been sitting for several hours, by flushing your tap for 30 seconds to 2 minutes (or until the water temperature has changed) before using water for drinking or cooking. If you are concerned about lead levels in your water, you may wish to have your water tested. Additional information on lead in drinking water, testing methods, and steps you can take to minimize exposure is available from the **USEPA's Safe Drinking Water Hotline 800.426.4791**, or at www.epa.gov/lead. ■

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 SFPUC's 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 for Disease Control (CDC) considers it safe to use optimally fluoridated water for preparing infant formula. To lessen the 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 health provider or SWRCB-DDW if you have concerns about dental fluorosis. For additional information about fluoridation or oral health, visit the CDC website www.cdc.gov/fluoridation or SWRCB-DDW website www.waterboards.ca.gov/drinking_water/certlic/drinkingwater/Fluoridation.shtml. ■



WATER QUALITY

The SFPUC's Water Quality Division (WQD) regularly collects and tests 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 2017, WQD staff conducted more than 55,273 drinking water tests in the transmission and distribution systems. This is in addition to the extensive treatment process control monitoring performed by the SFPUC'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 USEPA and 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.



Boron Detection Above Notification Level in Source Water

In 2017, boron was detected at a level of 1.74 ppm in the raw water stored in one of our approved sources, Pond F3 East, in Alameda Watershed. Although the detected value is above the California Notification Level of 1 ppm for source water, the corresponding treated water boron level from the SVWTP was only 0.2 ppm.

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. The SFPUC regularly tests for this waterborne pathogen, and found it at very low levels in source water and treated water in 2016. 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.

MPWD's Water Quality Data for Year 2017

The table below lists all detected drinking water contaminants and the information about their typical sources for 2017. Contaminants below detection limits for reporting are not shown, in accord with regulatory guidance. The SFPUC holds a SWRCB-DDW monitoring waiver for some contaminants and therefore their monitoring frequencies are less than annual.

DETECTED CONTAMINANTS¹

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	0.3 - 1.1 ⁽²⁾	[2.7]	Soil runoff
Filtered Water from Sunol Valley Water	NTU	1 ⁽³⁾	N/A	-	[1]	Soil runoff
Treatment Plant (SVWTP)	-	Min 95% of samples ≤ 0.3 NTU ⁽³⁾	N/A	99 - 100%	-	Soil runoff
Filtered Water from Harry Tracy Water	NTU	1 ⁽³⁾	N/A	-	[0.1]	Soil runoff
Treatment Plant (HTWTP)	-	Min 95% of samples ≤ 0.3 NTU ⁽³⁾	N/A	100%	-	Soil runoff
DISINFECTION BYPRODUCTS AND PRECURSOR						
Total Trihalomethanes	ppb	80	N/A	15.5 - 57.4	41.4 ⁽⁴⁾	Byproduct of drinking water disinfection
Haloacetic Acids	ppb	60	N/A	8.1 - 37.7	26.8 ⁽⁴⁾	Byproduct of drinking water disinfection
Total Organic Carbon ⁽⁵⁾	ppm	TT	N/A	1.0 - 3.7	2.4	Various natural and man-made sources
MICROBIOLOGICAL						
Total Coliform ⁽⁶⁾	-	NoP ≤ 5.0% of monthly samples	(0)	-	0	Naturally present in the environment
<i>Giardia lamblia</i>	cyst/L	TT	(0)	0 - 0.22	0.05	Naturally present in the environment
INORGANICS						
Fluoride (source water) ⁽⁷⁾	ppm	2.0	1	ND - 0.6	0.2 ⁽⁸⁾	Erosion of natural deposits; water additive to promote strong teeth
Chloramine (as chlorine)	ppm	MRDL = 4.0	MRDLG = 4	0.53 - 3.18	2.24 ⁽⁹⁾	Drinking water disinfectant added for treatment

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

ppb = part per billion

ppm = part per million

µS/cm = microSiemens / centimeter

DETECTED CONTAMINANTS¹

CONSTITUENTS WITH SECONDARY STANDARDS

	Unit	SMCL	PHG	Range	Average	Major Sources of Contaminant
Aluminum ⁽¹⁰⁾	ppb	200	600	ND - 99	ND	Erosion of natural deposits; some surface water treatment residue
Chloride	ppm	500	N/A	<3 - 17	9.0	Runoff / leaching from natural deposits
Color	unit	15	N/A	<5 - 13	<5	Naturally-occurring organic materials
Specific Conductance	µS/cm	1600	N/A	29 - 256	168	Substances that form ions when in water
Sulfate	ppm	500	N/A	0.9 - 34	17	Runoff / leaching from natural deposits
Total Dissolved Solids	ppm	1000	N/A	<20 - 122	76	Runoff / leaching from natural deposits
Turbidity	NTU	5	N/A	0.1 - 1	0.4	Soil runoff

LEAD AND COPPER

	Unit	AL	PHG	Range	90th Percentile	Major Sources in Drinking Water
Copper	ppb	1300	300	<1.7 - 40 ⁽¹¹⁾	32.3	Internal corrosion of household water plumbing systems
Lead	ppb	15	0.2	<1.0 - 2.9 ⁽¹²⁾	1.5	Internal corrosion of household water plumbing systems

OTHER WATER QUALITY PARAMETERS

	Unit	ORL	Range	Average
Alkalinity (as CaCO ₃)	ppm	N/A	6 - 131	52
Boron	ppb	1000 (NL)	ND - 203	ND
Bromide	ppb	N/A	<5 - 30	13
Calcium (as Ca)	ppm	N/A	2 - 31	16
Chlorate ⁽¹³⁾	ppb	(800) NL	51 - 180	86
Hardness (as CaCO ₃)	ppm	N/A	7 - 82	51
Magnesium	ppm	N/A	0.2 - 11	6.2
pH	-	N/A	7.4 - 9.8	9.2
Potassium	ppm	N/A	0.2 - 2	1.0
Silica	ppm	N/A	4.6 - 12	7.6
Sodium	ppm	N/A	2.3 - 31	18
Strontium	ppb	N/A	12 - 234	111



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 SVWTP only.
- (6) The Mid-Peninsula Water District had zero positives for Total Coliform in 2017.
- (7) In May 2015, the SWRCB recommended an optimal fluoride level of 0.7 ppm be maintained in the treated water. In 2017, the range and average of the fluoride levels were 0.5 ppm - 0.9 ppm and 0.7 ppm, respectively..
- (8) (8) The natural fluoride level in the Hetch Hetchy supply was ND. Elevated fluoride levels in

the SVWTP and HTWTP raw water are attributed to the transfer of fluoridated Hetch Hetchy water into the local reservoirs.

- (9) This is the highest running annual average value.
- (10) Aluminum also has a primary MCL of 1,000 ppb.
- (11) The most recent Lead and Copper Rule monitoring was in 2015. 0 of 32 site samples collected at consumer taps had copper concentrations above the AL.
- (12) The most recent Lead and Copper Rule monitoring was in 2015. 0 of 32 site samples collected at consumer taps had lead concentrations above the AL.
- (13) The detected chlorate in the treated water is a degradation product of sodium hypochlorite used by the SFPUC for water disinfection.

NOTE: Additional water quality data may be obtained by calling the Mid-Peninsula Water District phone number at 650-591-8941.

MPWD 2017 CONSUMER CONFIDENCE REPORT

MPWD: Serving You Since 1929



For nearly 90 years, the Mid-Peninsula Water District (MPWD) has provided its customers with safe, quality water. Along with this unwavering commitment, we also offer friendly, professional service.

Please visit MidPeninsulaWater.org for more information about MPWD and the many services we provide our customers:

- Water conservation tips
- Rebate programs
- Capital Improvement Program info
- News and notices
- School education programs
- Online bill pay
- Customer Connect
- Community outreach
- Free hands-on workshops

GET CONNECTED WITH CUSTOMER CONNECT!

The Mid-Peninsula Water District is dedicated to tailoring communications to customer needs. You can now subscribe to **MPWD's Customer Connect** and get connected to a virtual pipeline of District and community news wherever you are.



Stay in the know with the electronic version of the *The Waterline* and receive general information of interest to MPWD customers and the community.



Get News Flashes by text message and/or email that only communicate urgent service alerts and emergency information.

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