

CONSUMER CONFIDENCE REPORT

Bringing Quality Water to Your Door since 1929



ABOUTMPWD

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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Tammy Rudock General Manager

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District Engineer

Jeff Ira District Treasurer 0



There's More to Go!

MPWD customers exceeded the LOCAL call to save water last year, but... the State Water Resources Control Board (SWRCB) issued 2015 regulations to address the statewide drought emergency and has called on Mid-Peninsula Water District customers to save 20%*.

www.MidPeninsulaWater.org/tips

T TO SAVE

Water... have you been thinking about it lately? We turn on our water faucets and clean water flows out. We take our showers or baths, wash our dishes and clothes and water the plants. Much of our lives at home a

wash our dishes and clothes, and water the plants. Much of our lives at home and work depend on what comes out of our faucets, on demand.

For more than 85 years, Mid-Peninsula Water District (MPWD) has been dedicated to providing safe, high quality, and reliable water every time you turn on your faucets. We are pleased to report in this 2014 Consumer Confidence Report that we once again met and surpassed all federal and state water quality regulations.

MPWD is also dedicated to providing high quality water for current and future generations. This is a great challenge during the extended statewide drought. That is why we are asking you to think more about water the next time you turn on your faucets. And that is also why we are committed to helping our customers save every drop of water we can with water-saving tips, valuable rebate programs (MidPeninsulaWater.org/rebates),

and even free water conservation kits. The California

drought is hard, but water conservation is easy. Together, we can do it. Call us today at **650.591.8941**, visit us online, or drop by our office for more information.

If Everyone Saves a Little, We Can All Save a Lot!

This report contains important information about your 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。



Drinking Water Sources and Treatment

The sources of drinking water (both tap water and bottled water) include rivers, lakes, oceans, streams, ponds, reservoirs, springs, and wells.

Supplied by the San Francisco Regional Water System (SFRWS), our major water source originates from spring snowmelt flowing down the Tuolumne River to



storage in Hetch Hetchy Reservoir. The pristine, well protected Sierra water source is exempt from filtration requirements by the United States Environmental Protection Agency (USEPA) and State Water Resources Control Board's Division of Drinking Water (SWRCB). Water treatments provided by the SFRWS, including disinfection by ultra-

violet light and chlorine, corrosion control by adjustment of the water pH value, fluoridation for dental health protection, and chloramination for maintaining disinfectant residual and minimizing disinfection byproduct formation, are in place to meet the drinking water regulatory requirements.

The Hetch Hetchy water is supplemented with surface water from two local watersheds. Rainfall and runoff from the 35,000-acre Alameda Watershed in Alameda and Santa Clara counties are collected in the Calaveras and San Antonio reservoirs for filtration and disinfection at the Sunol Valley Water Treatment Plant. Rainfall and runoff from the 23,000-acre Peninsula Watershed in San Mateo County are stored in the Crystal Springs, San Andreas, and Pilarcitos reservoirs, and are filtered and disinfected at the Harry Tracy Water Treatment Plant.

As in the past, the Hetch Hetchy Watershed provided the majority of our total water supply, with the remainder contributed by the two local watersheds in 2014.

Protecting Our Watersheds

The SFPUC's annual Hetch Hetchy Watershed Sanitary Survey evaluates the sanitary conditions, water quality, potential contamination sources, and the results of watershed management activities with partner agencies including the National Park Service and US Forest Service.

The SFPUC also conducts sanitary surveys every five years to detect and track sanitary concerns for the local watersheds and the approved standby water sources in Early Intake Watershed, which includes Cherry Lake and Lake Eleanor. The latest 5-year surveys were completed in 2011 for the period of 2006-2010. These surveys identified wildlife, stock, and human activities as potential contamination sources. The reports are available for review at the San Francisco District office of SWRCB (510) 620-3474.

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 2014, WQD staff conducted more than 52,000 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.

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.

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 prescribe regulations that limit the amount of certain contaminants in water provided by public water systems. SWRCB regulations also establish limits for contaminants in bottled water that provide the same protection for public health.

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 water is fluoridated at 0.9 milligram per liter. Infants fed formula mixed with water containing fluoride at this level may have an increased 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. 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 health provider or SWRCB if you have concerns about dental fluorosis. For additional information visit the SWRCB website www.swrcb.ca.gov and search for fluoride, or the CDC website www.cdc.gov/fluoridation.

Special Health Needs

Some people may be more vulnerable to contaminants in drinking water than the general population. Immunocompromised 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/Centers for Disease

Control 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.

Treatment Plant Improvements

The Harry Tracy Water Treatment Plant Long-Term Improvements Project is now complete. The \$280 million project includes significant upgrades to the ozonation system (an effective oxygen-based method for destroying bacteria, viruses, and odors), construction of five new filters and a new 11-million-gallon treated water reservoir. The overall improvements in performance will increase the plant's capacity and reliability for treating drinking water for San Francisco and San Mateo County. It also ensures that the plant can reliably produce 140 MGD of water within 24 hours of a major earthquake.

REDUCING LEAD FROM PLUMBING FIXTURES

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 because of plumbing materials used in your property.

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. 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 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/safewater/lead.



CONTAMINANTS THAT MAY BE PRESENT IN SOURCE WATER INCLUDE:

Microbial contaminants, such as viruses and bacteria, that may come from sewage treatment plants, septic systems, agricultural livestock operations, and wildlife.

Inorganic contaminants, such as salts and metals, that can be naturally occurring or result from urban stormwater runoff, industrial or domestic wastewater discharges, oil and gas production, mining, or farming.

Pesticides and herbicides that may come from a variety of 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.

GOWILD! Plant native, water-efficient plants to save water and \$\$\$.

Did you know that up to 50% of your household water usage can be for landscaping? Learn more about water conservation in your landscaping by visiting

MidPeninsulaWater.org/landscape

KEY WATER QUALITY TERMS

Following are definitions of key terms referring to standards and goals of water quality noted on the adjacent 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 2014. 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.

2014 Consumer Confidence Report

The table below lists all 2014 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. The SFRWS received from the SWRCB a monitoring waiver for some contaminants such that 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	0.2 - 0.6 (2)	[2.8]	Soil runoff				
Filtered Water from Sunol Valley Water	NTU	1 (3)	N/A	-	[0.98]	Soil runoff				
Treatment Plant (SVWTP)	-	Min 95% of samples \leq 0.3 NTU $^{\scriptscriptstyle (3)}$	N/A	97-100%	-	Soil runoff				
Filtered Water from Harry Tracy Water	NTU	1 (3)	N/A	-	[0.07]	Soil runoff				
Treatment Plant (HTWTP)	-	Min 95% of samples \leq 0.3 NTU $^{\scriptscriptstyle (3)}$	N/A	100%	-	Soil runoff				
DISINFECTION BYPRODUCTS AND PRECURSOR										
Total Trihalomethanes	ppb	80	N/A	25.9 - 45.6	36.5 (4)	Byproduct of drinking water disinfection				
Haloacetic Acids	ppb	60	N/A	16.7 - 44.7	29.8 (4)	Byproduct of drinking water disinfection				
Total Organic Carbon (5)	ppm	TT	N/A	1.3 - 2.8	1.9	Various natural and man-made sources				
MICROBIOLOGICAL										
Total Coliform ⁽⁶⁾	-	NoP \leq 5.0% of monthly samples	(0)	0	0	Naturally present in the environment				
Giardia lamblia	cyst/L	Π	(0)	<0.01 - 0.04	< 0.01	Naturally present in the environment				
INORGANICS										
Fluoride (source water) $^{\scriptscriptstyle (7)}$	ppm	2.0	1	ND - 0.8	0.4 (8)	Erosion of natural deposits; water additive to promote strong teeth				
Chloramine (as chlorine)	ppm	MRDL = 4.0	MRDLG = 4	0.6 - 2.9	1.98 ⁽⁹⁾	Drinking water disinfectant added for treatment				
KEY $< / \leq =$ less than / less than or AL = Action Level	equal to	N/A = ND = NL =	Not Available Non-detect Notification Level		ORL pCi/L ppb	 Other Regulatory Level picocurie per liter part per billion 				

- Max = Maximum
- Min = Minimum

- NL = NULIIUALIUII LEVEI NoD - Number of Coliform Dec
- NoP = Number of Coliform-Positive Sample
- NTU = Nephelometric Turbidity Unit
- ppm = part per million
- μ S/cm = microSiemens / centimeter



DETECTED CONTAMINANTS¹

CONSTITUENTS WITH								
SECONDARY STANDARDS	Unit	SMCL	PHG	Range	Average	Typical Sources of Contaminant		
Chloride	ppm	500	N/A	<3 - 15	9	Runoff / leaching from natural deposits		
Odor Threshold	TON	3	N/A	ND - 1	ND	Naturally occurring organic materials		
Specific Conductance	µS/cm	1600	N/A	32 - 222	151	Substances that form ions when in water		
Sulfate	ppm	500	N/A	0.9 - 32	17	Runoff / leaching from natural deposits		
Total Dissolved Solids	ppm	1000	N/A	31 - 120	81	Runoff / leaching from natural deposits		
Turbidity	NTU	5	N/A	0.1 - 0.2	0.1	Soil runoff		
LEAD AND COPPER	Unit	AL	PHG	Range	90th Percentile	Typical Sources in Drinking Water		
Copper	ppb	1300	300	<1.0 - 82.2 (10)	60.1	Internal corrosion of household water plumbing systems		
Lead	ppb	15	0.2	<1.0 - 8.1 (11)	3.4	Internal corrosion of household water plumbing systems		
OTHER WATER QUALITY PARAMETERS	Unit	ORL	Range	Average				
Alkalinity (as CaCO ₃)	ppm	N/A	8 - 94	37				
Bromide ⁽¹²⁾	ppb	N/A	ND - 27	5				
Calcium (as Ca)	ppm	N/A	3 - 20	11				
Chlorate ⁽¹³⁾	ppb	(800) NL	34 - 740	314				
Hardness (as CaCO ₃)	ppm	N/A	7 - 77	46				
Magnesium	ppm	N/A	< 0.2 - 6.4	3.9				
рН	-	N/A	6.9 - 10.2	9.3				
Potassium	ppm	N/A	0.2 - 1	0.6				
Silica	ppm	N/A	2 - 5	4		MPWD Water Quality		

FOOTNOTES:

- (1) All results met Federal and State drinking water 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. (if your system has 4 quarters of locational DBP data obtained under Stage 2 DBPR monitoring)
- (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 2014
- (7) The SWRCB specifies the fluoride level in the treated water be maintained within a range of 0.8 ppm 1.5 ppm. In 2014, the range and average of the fluoride levels were 0.6 ppm 1.2 ppm and 0.9 ppm, respectively.
- (8) The natural fluoride level in the Hetch Hetch y supply was ND. Elevated fluoride levels in the SVWTP and HTWTP raw water are attributed to the transfer of fluoridated Hetch Hetch water

into the reservoirs.

- (9) This is the highest running annual average value.
- (10) The most recent Lead and Copper Rule monitoring was in 2012. O of 33 site samples collected at consumer taps had copper concentrations above the AL. (Use only if necessary)
- (11) The most recent Lead and Copper Rule monitoring was in 2012. O of 33 site samples collected at consumer taps had lead concentrations above the AL. (Use only if necessary)
- (12) Bromide was detected in HTWTP effluent only. If you do not receive HTWTP water in 2014, you may exclude this contaminant from this table.
- (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.



3 Dairy Lane Belmont, CA 94002

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