

2022 Consumer Confidence Report



mounthermon

Mount Hermon Association, Inc.

Contact: Dale Pollock, 831-430-1204

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Este informe contiene información muy importante sobre su agua beber. Favor de comunicarse a Mount Hermon Association, Inc.

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para asistirlo en español

What is this report?

This is an annual water quality report prepared by the Association to inform the Mount Hermon community about the quality of their drinking water. This report provides a summary of last year's water quality monitoring. Included are details about where your water comes from, what it contains, and how it measures up to state and federal drinking water standards.

Where does your water come from?

Three deep ground water wells (two active and one on standby), reaching into the Lompico Aquifer, work together to provide Mount Hermon with the water it needs. The Stand by well was not used during this period.

How does drinking water get contaminated?

- Sources of drinking water (both tap water and bottled water) include rivers, lakes, streams, ponds, reservoirs, springs, and wells. As water travels over the surface of the land or through the ground, it dissolves naturally-occurring minerals and, in some cases, radioactive

material, and can pick up *Inorganic contaminants*, such as salts and metals, that can be naturally-occurring or result from urban storm water runoff, industrial or domestic wastewater discharges, oil and gas production, mining, or farming.

- *Pesticides and herbicides*, which may come from a variety of sources such as agriculture, urban storm water runoff, and residential uses.
- *Organic chemical contaminants*, including synthetic and volatile organic chemicals, which are byproducts of industrial processes and petroleum production, and can also come from gas stations, urban storm water 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.

In order to ensure that tap water is safe to drink, USEPA and the state Water Resources Control Board, prescribe regulations that limit the amount of certain contaminants in water provided by public water systems. Department regulations also establish limits for contaminants in bottled water that must provide the same protection for public health.

Are the Mount Hermon wells vulnerable to contamination?

Water suppliers are required to conduct vulnerability assessments of their water sources. The assessment is designed to identify nearby activities which could potentially release contaminants that may reach our water supply sources. Most recent assessment was in March 2007. A copy can be made available by calling 831-430-1204. Examples of potential contaminant sources are: automobile service stations, construction activities, confined animal facilities, commercial and industrial operations, and septic systems, just to name a few.

The only potential source of contaminant for the Mount Hermon water system was identified as the septic system located at the County of Santa Cruz Juvenile Probation Center, and was ranked very low.

TERMS USED IN THIS REPORT

Maximum Contaminant Level (MCL): The highest level of a contaminant that is allowed in drinking water. Primary MCLs are set as close to the PHGs (or MCLGs) as is economically and technologically feasible. Secondary MCLs are set to protect the odor, taste, and appearance of drinking water.

Maximum Contaminant Level Goal (MCLG): The level of a contaminant in drinking water below which there is no known or expected risk to health. MCLGs are set by the U.S. Environmental Protection Agency (U.S. EPA).

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 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 Standards (PDWS): MCLs and MRDLs for contaminants that affect health along with their monitoring and reporting requirements, and water treatment requirements.

Secondary Drinking Water Standards (SDWS): MCLs for contaminants that affect taste, odor, or appearance of the drinking water. Contaminants with SDWSs do not affect the health at the MCL levels.

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

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

Variations and Exemptions: State Board permission to exceed an MCL or not comply with a treatment technique under certain conditions.

Level 1 Assessment: A Level 1 assessment is a study of the water system to identify potential problems and determine (if possible) why total coliform bacteria have been found in our water system.

Level 2 Assessment: A Level 2 assessment is a very detailed study of the water system to identify potential problems and determine (if possible) why an *E. coli* MCL violation has occurred and/or why total coliform bacteria have been found in our water system on multiple occasions.

ND: not detectable at testing limit

ppm: parts per million or milligrams per liter (mg/L)

ppb: parts per billion or micrograms per liter ($\mu\text{g/L}$)

ppt: parts per trillion or nanograms per liter (ng/L)

ppq: parts per quadrillion or picogram per liter (pg/L)

pCi/L: picocuries per liter (a measure of radiation)

SMCL: secondary MCL

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, that are byproducts of industrial processes and petroleum production, and can also come from gas stations, urban stormwater runoff, agricultural application, and septic systems.
- *Radioactive contaminants*, that can be naturally-occurring or be the result of oil and gas production and mining activities.

In order to ensure that tap water is safe to drink, the U.S. EPA and the State Water Resources Control Board (State Board) prescribe regulations that limit the amount of certain contaminants in water provided by public water systems. State Board regulations also establish limits for contaminants in bottled water that provide the same protection for public health.

Tables 1, 2, 3, 4, 5, and 6 list all of the drinking water contaminants that were detected during the most recent sampling for the constituent. The presence of these contaminants in the water does not necessarily indicate that the water poses a health risk. The State Board allows us to monitor for certain contaminants less than once per year because the concentrations of these contaminants do not change frequently. Some of the data, though representative of the water quality, are more than one year old. Any violation of an AL, MCL, MRDL, or TT is asterisked. Additional information regarding the violation is provided later in this report.

TABLE 1 – SAMPLING RESULTS SHOWING THE DETECTION OF COLIFORM BACTERIA

Microbiological Contaminants (complete if bacteria detected)	Highest No. of Detections	No. of Months in Violation	MCL	MCLG	Typical Source of Bacteria
Total Coliform Bacteria *	(In a mo.) 0	0	More than 1 sample in a month with a detection	0	Naturally present in the environment
Fecal Coliform or <i>E. coli</i> *	(In the year) 0	0	A routine sample and a repeat sample detect total coliform and either sample also detects fecal coliform or <i>E. coli</i>	0	Human and animal fecal waste
<i>E. coli</i> (federal Revised Total Coliform Rule)	(In the year) 0	0	(a)	0	Human and animal fecal waste

(a) Routine and repeat samples are total coliform-positive and either is *E. coli*-positive or system fails to take repeat samples following *E. coli*-positive routine sample or system fails to analyze total coliform-positive repeat sample for *E. coli*.

TABLE 2 – SAMPLING RESULTS SHOWING THE DETECTION OF LEAD AND COPPER

Lead and Copper (complete if lead or copper detected in the last sample set)	Sample Date	No. of Samples Collected	90 th Percentile Level Detected	No. Sites Exceeding AL	AL	PHG	No. of Schools Requesting Lead Sampling	Typical Source of Contaminant
Lead (ppb)	10/28/20	10	ND	0	15	0.2		Internal corrosion of household water plumbing systems; discharges from industrial manufacturers; erosion of natural deposits
Copper (ppm)	9/23/20	10	0.075	0	1.3	0.3	Not applicable	Internal corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives

TABLE 3 – SAMPLING RESULTS FOR SODIUM AND HARDNESS

Chemical or Constituent (and reporting units)	Sample Date	Level Detected	Range of Detections	MCL	PHG (MCLG)	Typical Source of Contaminant
Hardness (ppm)	3/8/22	35	31-39	none	none	Sum of polyvalent cations present in the water, generally magnesium and calcium, and are usually naturally occurring
Sodium (ppm)	3/8/22	53	12-94	none	none	Salt present in the water and is generally naturally occurring

TABLE 4 – DETECTION OF CONTAMINANTS WITH A PRIMARY DRINKING WATER STANDARD

	Sample Date	Level Detected	Range of Detections	MCL [MRDL]	PHG (MCLG) [MRDLG]	Typical Source of Contaminant
Bromodichloromethane	8/10/22	1.95	1.5-2.4			
Bromoform (ppb)	8/10/22	3.45	2.1-4.8			

Chloroform (ppb)	8/10/22	0.97	0-0.97			
Dibromoacetic Acid (DBAA) (ppb)	8/10/22	1.7	0-1.7			
Dibromochloromethane (ppb)	8/10/22	3.6	2.5-4.7			
Fluoride (ppm)	3/8/22	0.23	0.11-0.36	2	1	Erosion of natural deposits; water additive which promotes strong teeth; discharge from fertilizer and aluminum factories
Combined Radium 226-228 (pCi/L)	7/5/19	0.725	0.725	5	N/A	Erosion of natural deposits
Total Trihalomethanes TTHMs (ppb)	8/10/22	10	7-13	80	N/A	By-product of drinking water disinfection
Uranium (pCi/L)	1/6/22	0.67	0-0.67	20	0.43	Erosion of natural deposits

TABLE 5 – DETECTION OF CONTAMINANTS WITH A SECONDARY DRINKING WATER STANDARD

Chemical or Constituent (and reporting units)	Sample Date	Level Detected	Range of Detections	SMCL	PHG (MCLG)	Typical Source of Contaminant
Chloride (ppm)	3/8/22	16.9	8.8-25	500		Produced water from gas and oil wells, wastewater from water softening, industries and municipalities
Color (pH units)	3/8/22	7.3	6.8-7.9	15		Naturally-occurring organic materials
Copper, Free (ppb)	3/8/22	27	0-27	1000		
Iron (ppb)	3/8/22	155	37-380	300		Leaching from natural deposits; industrial wastes
Maganese (ppb)	3/8/22	23	0-23	50		
Threshold Odor (ton)	1/27/22	1.0	1.0	3		
Specific Conductance (uS/cm)	3/8/22	330	140-520	1600		Substances that form ions when in water; seawater influence
Sulfate (ppm)	3/8/22	31.1	8.2-54	500		Runoff/leaching from natural deposits; seawater influence
Total Dissolved solids (TDS) (ppm)	3/8/2022	210	110-310	1000		Runoff/leaching from natural deposits
Turbidity (ntu)	3/8/22	0.59	0.29-0.89	5		Soil runoff

TABLE 6 – DETECTION OF UNREGULATED CONTAMINANTS

Chemical or Constituent (and reporting units)	Sample Date	Level Detected	Range of Detections	Notification Level	Health Effects Language
Alkalinity as Ca CO3 (ppm)	3/8/22	97	44-150		
Bicarbonate as HCO3 (ppm)	3/8/22	82	44-120		
Boron (ppm)	2/10/21	0.670	0.670	1	Boron exposures resulted in decreased fetal weight (developmental effects) in newborn rats.
Carbonate Alkalinity (ppm)	3/8/22	26	26		
Calcium (ppm)	3/8/22	11.5	10-13		
Magnesium (ppm)	3/8/22	1.3	1.1-1.5		
pH (pH units)	3/8/22	7.7			low pH: bitter metallic taste; corrosion

					high pH: slippery feel; soda taste; deposits
Aggressive Index (aggr)	3/8/22	11	10-12		
Langelier Index (lang)	3/8/22	-0.78	-1.9-0.34		

Additional General Information on Drinking Water

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 the water poses a health risk. More information about contaminants and potential health effects can be obtained by calling the U.S. EPA's Safe Drinking Water Hotline (1-800-426-4791).

Some people may be more vulnerable to contaminants in drinking water than the general population. Immuno-compromised persons such as persons with cancer undergoing chemotherapy, persons who have undergone organ transplants, people with HIV/AIDS or other immune system disorders, some elderly, and infants can be particularly at risk from infections. These people should seek advice about drinking water from their health care providers. U.S. EPA/Centers for Disease Control (CDC) guidelines on appropriate means to lessen the risk of infection by *Cryptosporidium* and other microbial contaminants are available from the Safe Drinking Water Hotline (1-800-426-4791).

Lead-Specific Language: If present, elevated levels of lead can cause serious health problems, especially for pregnant women and young children. Lead in drinking water is primarily from materials and components associated with service lines and home plumbing. [**Mount Hermon Water System**] is responsible for providing high quality drinking water, but cannot control the variety of materials used in plumbing components. When your water has been sitting for several hours, you can minimize the potential for lead exposure by flushing your tap for 30 seconds to 2 minutes before using water for drinking or cooking. If you do so, you may wish to collect the flushed water and reuse it for another beneficial purpose, such as watering plants.] If you are concerned about lead in your water, you may wish to have your water tested. Information on lead in drinking water, testing methods, and steps you can take to minimize exposure is available from the Safe Drinking Water Hotline (1-800-426-4791) or at <http://www.epa.gov/lead>.
