

2014 Consumer Confidence Report

Montara Water and Sanitary District

June 2015

About Your Water

The Montara Water and Sanitary District is served by groundwater sources from San Mateo Coastal Basin Aquifers and surface water from the Montara Creek. Drinking water treatment technologies used in the water system include conventional coagulation, filtration, ion exchange and disinfection. The Drinking Water Source Assessment for all sources was completed in January 2003 and is on file with the California State Water Resources Control Board (SWRCB) Division of Drinking Water.

We test the drinking water quality for many constituents as required by State and Federal regulations. This report shows the results of our monitoring for the period of January 1 through December 31, 2014 and may include earlier monitoring data.

The 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 substances resulting from the presence of animals or from human activity.

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 and mining activities.

To ensure that tap water is safe to drink, the U.S. Environmental Protection Agency (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 must provide the same protection for public health.

Message from the Board President

Dear Customer,

We are pleased to report continued compliance of your local water with all federal and state drinking water regulations, as demonstrated by the Consumer Confidence Report for 2014. This Report summarizes the results of approximately 1,200 analyses conducted on your drinking water in the past year. Since the community acquired the water system in 2003, we have made significant improvements to the water system that have resulted in water quality improvements in turbidity, iron, nitrates, and color.

2014 has been a historic year for California's water supply as the state continues to suffer from extreme drought conditions. With your support, MWSD continues its extensive conservation program and has reduced water consumption by at least 27% since 2003. For more information on how to save water and reduce your water bills, please visit saveourh2o.org.

The District has also continued its infrastructure improvement efforts throughout 2014, commencing the construction of the Alta Vista Tank and rehabilitating several drinking water wells to improve water quality.

MWSD looks forward to continued water conservation efforts and further development of important infrastructure projects, and would like to thank you for your support in helping us to maintain a reliable and environmentally conscious water system.

For more information on the MWSD system and the quality of your drinking water, you can visit the District's office, the web site at mwsd.montara.org, or by attending one of our Board meetings. District Staff and Board Members are always available to discuss issues with customers and constituents.

Sincerely,

Scott Boyd
MWSD Board President

Our Mission Statement

To sensitively manage the natural resources entrusted to our care, to provide the people of Montara and Moss Beach with reliable, high-quality water, wastewater, and trash disposal services at an equitable price, and to ensure the fiscal and environmental vitality of the district for future generations.

Este informe contiene información muy importante sobre su agua potable. Tradúzcalo ó hable con alguien que lo entienda bien.

Important Information about Your Drinking Water

Copper was found at levels that exceeded the Regulatory Action Level (AL) of 1.3 ppm in the 2005 residential tap sampling. No exceedance was found in the distribution system. The typical source for copper contamination is internal corrosion of household plumbing systems, erosion of natural deposits or leaching from wood preservatives.

Manganese was found at levels that exceeded the secondary MCL of 50 ppb. Secondary MCLs were set to protect you against unpleasant aesthetic effects such as color, taste, odor, and the staining of plumbing fixtures (e.g., tubs and sinks), and clothing while washing. Exceeding the secondary MCLs poses no health risks. The high manganese levels are most likely due to leaching of natural deposits in the soil where groundwater is in contact with naturally occurring sediments.

Nitrate was detected at one District well at levels **below** the MCL or 45 mg/L but above 23 mg/L. High nitrate levels in drinking water can interfere with the capacity of the infant's blood to carry oxygen, resulting in serious illness; symptoms include shortness of breath and blueness of the skin. Nitrate levels above 45 mg/L may also affect the ability of the blood to carry oxygen in other individuals, such as pregnant women and those with specific enzyme deficiencies. If you are caring for an infant, or you are pregnant, you should ask advice from your health care provider.

Arsenic was detected at one District well at levels **below** the MCL but above 5 ppb. While your drinking water meets the federal and state standard for arsenic, it does contain low levels of arsenic. The arsenic standard balances the current understanding of arsenic's possible health effects against the cost of removing arsenic from drinking water. The USEPA continues to research the health effects of low levels of arsenic, which is a mineral known to cause cancer in humans at high concentrations and is linked to other health effects such as skin damage and circulatory problems.

A Message from the USEPA and the SWRCB Division of 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 USEPA'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. USEPA/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 for Community Water Systems: 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. Montara Water and Sanitary District 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 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 or at <http://www.epa.gov/safewater/lead>.

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.

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.

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.

Secondary Maximum Contaminant Level (SMCL): Secondary MCLs are set to protect the odor, taste, and appearance of drinking water. Exceeding the SMCLs poses no health risks.

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: SWRCB Division of Drinking Water permission to exceed an MCL or not comply with a treatment technique under certain conditions.

ND: not detectable at testing limit

NTU: nephelometric turbidity unit

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

ppb: parts per billion or micrograms per liter (µg/L)

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

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

T.O.N.: threshold odor unit

Tables 1, 2, 3, 4, 5, 7, and 8 list all of the drinking water contaminants that were detected during the most recent sampling events 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.

TABLE 1 – SAMPLING RESULTS SHOWING THE DETECTION OF COLIFORM BACTERIA

Microbiological Contaminants	Highest No. of detections	No. of months in violation	MCL	MCLG	Typical Source of Bacteria
Total Coliform Bacteria	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>	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

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

Lead and Copper	No. of samples collected	90th percentile level detected	No. sites exceeding AL	AL	PHG	Typical Source of Contaminant
Lead (ppb)	26 2005 Tap Sampling	6	0	15	0.2	Internal corrosion of household water plumbing systems; discharges from industrial manufacturers; erosion of natural deposits
*Copper (ppm)	26 2005 Tap Sampling	1.3	3	1.3	0.3	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
Sodium (ppm)	Annually (3/18/14)	41	41	-	41	none	none	Salt present in water and generally found naturally occurring in ground & surface water
Hardness (ppm)	Annually (3/18/14)	100	100	-	100	none	none	Sum of polyvalent cations present in water, generally magnesium and calcium, and are naturally occurring ground & surface water

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

Chemical or Constituent (and reporting units)	Sample Date	Level Detected	Range of Detections			MCL	PHG (MCLG) [MRDLG]	Typical Source of Contaminant
Turbidity (NTU)	Annually (3/18/14)	0.38	0.38	-	0.38	TT	none	Soil runoff
Arsenic (ppb)	Quarterly	2	ND	-	6.9	10	0.004	Erosion of natural deposits; runoff from orchards; glass and electronics production wastes

*Any exceedance or violation of an MCL, PHG or AL is asterisked. Additional information is provided in this report.

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

Chemical or Constituent (and reporting units)	Sample Date	Level Detected	Range of Detections			MCL	PHG (MCLG) [MRDLG]	Typical Source of Contaminant
Fluoride (ppm)	Annually (3/18/14)	0.75	0.72	-	0.78	2	1	Erosion of natural deposits; water additive which promotes strong teeth; discharge from fertilizer and aluminum factories
Nitrate (ppm)	As needed	8.5	ND	-	29	45	45	Runoff and leaching from fertilizer use; leaching from septic tanks and sewage; erosion of natural deposits
Toluene (ppb)	Annually (varies by location)	0.09	ND	-	0.54	150	150	Discharge from petroleum and chemical factories; underground gas tank leaks
Total Trihalomethanes [TTHMs] (ppb)	Annually (8/27/14)	8.5	5.8	-	10	80	none	Byproduct of drinking water disinfection
Haloacetic Acids [HAA5] (ppb)	Annually (3/18/14)	2.1	ND	-	2.9	60	none	Byproduct of drinking water disinfection
Control of DBP precursors [TOC] (ppm)	Quarterly	0.44	0.37	-	0.49	TT	none	Various natural and man-made sources

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
Odor (T.O.N.)	Annually (3/18/14)	1.2	1.2	-	1.2	3	none	Naturally-occurring organic materials
Iron (ppb)	Quarterly	23	ND	-	45	300	none	Leaching from natural deposits; industrial wastes
**Manganese (ppb)	Varies	11	ND	-	66	50	none	Leaching from natural deposits
Total Dissolved Solids [TDS] (ppm)	Annually (3/18/14)	240	240	-	240	1,000	none	Runoff/leaching from natural deposits
Specific Conductance (µS/cm)	Quarterly	535	400	-	695	1,600	none	Substances that form ions when in water; seawater influence
Chloride (ppm)	Annually (3/18/14)	65	65	-	65	500	none	Runoff/leaching from natural deposits; seawater influence
Sulfate (ppm)	3/18/14, 9/3/14	49	14	-	84	500	none	Runoff/leaching from natural deposits; industrial wastes

****Any exceedance of an SMCL is asterisked. Exceeding the secondary MCLs poses no health risks. There are no PHGs, MCLGs, or mandatory standard health effects language for these constituents because secondary MCLs are set based on aesthetics.**

TABLE 7 – SAMPLING RESULTS SHOWING FECAL INDICATOR-POSITIVE GROUND WATER SOURCE SAMPLES					
Microbiological Contaminants	Total No. of Detections	Sample Dates	MCL [MRDL]	PHG (MCLG) [MRDLG]	Typical Source of Contaminant
<i>E. coli</i>	0	N/A	0	(0)	Human and animal fecal waste
Enterococci	0	N/A	TT	n/a	Human and animal fecal waste
Coliphage	0	N/A	TT	n/a	Human and animal fecal waste

TABLE 8 – SAMPLING RESULTS SHOWING TREATMENT OF SURFACE WATER SOURCES	
Treatment Technique ^(a) (Type of approval filtration technology used)	Dual-media pressure filters, coagulation and contact clarifiers
Turbidity Performance Standards ^(b) (that must be met through the water treatment process)	Turbidity of the filtered water must: 1 – Be less than or equal to <u>0.3</u> NTU in 95% of measurements in a month. 2 – Not exceed <u>0.3</u> NTU for more than either consecutive hours. 3 – Not exceed <u>1</u> NTU at any time.
Lowest monthly percentage of samples that met Turbidity Performance Standard No. 1.	100%
Highest single turbidity measurement during the year	0.25
Number of violations of any surface water treatment requirements.	0

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

(b) Turbidity is a measurement of the cloudiness of water and is a good indicator of water quality and filtration performance. Turbidity results which meet performance standards are considered to be in compliance with filtration requirements.

MWSD Board of Directors

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Montara Water and Sanitary District

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Continuing Our Commitment

The District Board Meetings for public participation are held on the first and third Thursday of each month at 7:30 p.m. at the District Office at 8888 Cabrillo Highway, Montara, CA 94037. For more information about this report and with any questions related to your public water system, please contact the District at (650) 728-3545. You may also fax to us at (650) 728-8556, or email to mwsd@coastside.net, or visit us online at mwsd.montara.org