



# DRINKING WATER QUALITY REPORT 2008

July 1, 2009

The City of Monrovia tests the drinking water quality for many constituents as required by State and Federal Regulations.

## 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.

**Primary Drinking Water Standards (PDWS):** MCLs 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.

**ND:** not detectable at testing limit

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

**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 U.S. Environmental Protection Agency (USEPA).

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

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

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

**pCi/L:** Picoe Curies per liter (a measure of radiation)

This report shows the results of our monitoring for the period  
**January 1 - December 31, 2008.**

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

Type of water source (s) in use: **Groundwater**

Name & location of source (s):

**Monrovia Wells 2-6  
2655 S. Myrtle Avenue, Monrovia, CA 91016**

Web site address for Consumer Confidence Report:

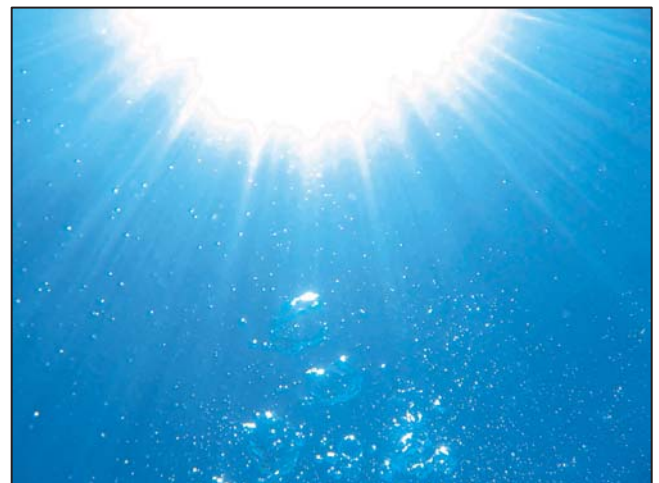
<http://ci.monrovia.ca.us>

Time and place of regularly scheduled board meetings for public participation:

**Every 1st and 3rd Tuesday of the month at 7:30 p.m.  
City Hall 415 S. Ivy Avenue, Monrovia, CA 91016**

For more information, contact  
**Shawn Igoe at (626) 256-8292**

**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. Our tap water here at the City of Monrovia is all ground water from wells in the Main San Gabriel Basin.



**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 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 that are byproducts of industrial processes and petroleum production, and can also come from gas stations, urban storm water runoff, 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 Department of Health Services (Department) 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.

Tables 1 and 2 list all of the drinking water contaminants that were detected during the most recent round of sampling. The presence of these contaminants in the water does not necessarily indicate that the water poses a health risk. The Department allows us to monitor for certain contaminants less than once per year because the concentrations of these contaminants are not expected to vary significantly from year to year. Some of the data, though representative of the water quality, are more than one year old.

**TABLE 1. DISTRIBUTION SYSTEM MONITORING**

MICROBIOLOGICAL CONTAMINANTS						
Microbiological Contaminants (reporting units)	Highest % Positive in any one month	No. Of months in violation	MCL	PHG (MCLG)	Typical Source of Bacteria	
Total Coliform Bacteria (% positive in a month)	0	0	5%	(0)	Naturally present in the environment	
Fecal Coliform or <i>E. coli</i> (% positive in a month)	0	0	0%	(0)	Human and animal fecal waste	
INORGANIC CONTAMINANTS						
Lead and Copper (reporting units)	No. of samples collected	90 <sup>th</sup> percentile level detected	No. Sites exceeding AL	AL	PHG (MCLG)	Typical Source of Contaminant
Lead (ppb)	31	3.8	0	15	2	Internal corrosion of household water plumbing systems; discharges from industrial manufacturers; erosion of natural deposits.
Copper (ppm)	31	0.48	0	1.3	0.17	Internal corrosion of household water plumbing systems; erosion of natural deposits; leaching from wood preservatives.
DISINFECTION BY PRODUCTS						
Disinfection By-Product (Reporting Units)	Sample Date	Average	Range of detection	MCL	PHG (MCLG)	Typical Source of Contaminant
Total Trihalomethanes (ppb)	Quarterly	6.7	N/D - 9.3	80	N/A	Typical by-product from chlorination of drinking water

\*Any violation of an MCL or AL is asterisked. Additional information regarding the violation is provided on the next page.

**TABLE 2. SOURCE WATER MONITORING**

<b>REGULATED CONTAMINANTS WITH PRIMARY MCLS</b>						
Chemical or Constituent (reporting units)	Sample Date	Average	Range of Detections	MCL (AL)	PHG (MCLG)	Typical Source of Contaminant
<b>Radiologicals</b>						
Alpha Particle Activity (pCi/ L)	8/2007	N/D	N/D	15	0	Erosion of natural deposits.
<b>Volatile Organic Compound</b>						
Trichloroethylene (TCE) (ppb)	Weekly	3.85	N/D - 15	5	.8	A typical source of TCE in ground water would be dry cleaning solvents and engine cleaning solvents.
Tetrachloroethylene (PCE) (ppb)	Weekly	.41	N/D - 1.3	5	0.06	A typical source of PCE in ground water would be dry cleaning solvents and engine cleaning solvents.
1,1-Dichloroethylene (ppb)	Quarterly	0.15	N/D - 0.7	6	10	Discharge from industrial chemical factories.
<b>Inorganic Chemicals</b>						
Nitrate as NO <sub>3</sub> (ppm)	Weekly	19.78	7.8 - 41	45	45	Run off and leaching fertilizer use; leaching from leaching from septic tanks and sewage; erosion of natural deposits.
Fluoride (ppm)	7/2008	0.41	0.30 - 0.46	2	1	Erosion of natural deposits; discharge from fertilizer and aluminum factories
<b>REGULATED CONTAMINANTS WITH SECONDARY MCLS</b>						
Chemical or Constituent (reporting units)	Sample Date	Average	Range of Detections	MCL (AL)	PHG (MCLG)	Typical Source of Contaminant
Chloride (ppm)	7/2008	24.8	19 - 35	250	None	Runoff/leaching from natural deposits; sea water influence.
Odor Threshold (units)	7/2008	1.2	1.0 - 2.0	3	0	Naturally occurring organic materials.
Perchlorate (ppm)	Quarterly	.40	N/D - 4	(4)	N/A	Runoff/leaching from natural deposits; industrial wastes.
Specific Conductance	7/2008	541.2	411 - 707	1,600	None	Substance that form ions when in water; seawater influence.
Sulfate (ppm)	7/2008	33.2	23 - 47	250	None	Runoff/leaching from natural deposits; industrial wastes.
Total Dissolved Solids (ppm)	7/2008	328.4	258 - 440	500	None	Runoff/leaching from natural deposits
<b>UNREGULATED CHEMICALS REQUIRING MONITORING</b>						
Vanadium (ppb)	10/2006	4.58	4.1 - 5.4	(50)	N/A	The primary is steel manufacturing. Also used in the manufacturing of phthalic anhydride, sulfuric acid, pesticides, dyes, and inks.

\*Any violation of an MCL or AL is asterisked. Additional information regarding the violation is provided below.

OTHER PARAMETERS						
Chemical or Constituent (reporting units)	Sample Date	Average	Range of Detections	MCL (AL)	PHG (MCLG)	Typical Source of Contaminant
Sodium (ppm)	7/2008	16	13 -20	None	None	Generally found in ground and surface water
Hardness (ppm)	7/2008	241.8	179 - 321	None	None	Generally found in ground and surface water
PH (units)	7/2008	7.28	7.1 - 7.5	None	None	Erosion of natural deposits; discharge from fertilizer and aluminum deposits
Calcium (ppm)	7/2008	68.2	52 - 89	None	None	Erosion of natural deposits
Magnesium (ppm)	7/2008	17.4	12 - 24	None	None	Erosion of natural deposits
Turbidity (ppm)	7/2008	.17	.10 - .20	5	None	Soil run off
Potassium (ppm)	7/2008	1.88	1.6 - 2.1	None	None	Erosion of natural deposits
Total Alkalinity (asCaCO <sub>3</sub> ) (ppm)	7/2008	183	149 - 220	None	None	Erosion of natural deposits

### Additional General Information on Drinking Water

All 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 US 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. Immune-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. US 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). The Department of Health Services implemented The **Drinking Water Source Assessment and Protection Program. (DWSAP).** The DWSAP Program includes a delineation of zones around a drinking water source; an inventory of Possible Contaminating Activities (PCA) within the delineated zones; and a determination of the PCAs to which the drinking water source is vulnerable. An assessment of the drinking water sources for the City of Monrovia was completed in September 2002. The Monrovia wells are considered most vulnerable to these contaminants detected in the water supply: (TCE, PCE & NITRATE). In addition, the Monrovia wells are considered most vulnerable to these activities: (dry cleaners, junk/scrap/salvage yards, metal plating/ finishing/ fabricating and historic landfills). A copy of the completed assessment is available for viewing at the City of Monrovia Water Department office at 600 S. Mountain Ave. You may request a summary of the assessment be sent to you by contacting Shawn Igoe at (626) 256-8292.