

## A Message to Our Customers

OPWS is pleased to provide this year's Annual Water Quality Report. This report is designed to inform you about the quality of water delivered to you each day. OPWS obtains our water directly from the Calleguas Municipal Water District (CMWD).

## Water System Information

If you have any questions about this report, or your service, please contact OPWS (c/o Triunfo Sanitation District (TSD)) at (805) 658-4658. For additional information on the quality of water delivered by CMWD, contact Tony Goff at (805) 579-7138 or visit the website, [www.calleguas.com](http://www.calleguas.com). State water supply information can be obtained from MWD at [www.mwdh2o.com](http://www.mwdh2o.com). Our customers are welcome to learn more about OPWS by attending any of the regularly scheduled TSD board meetings. They are held on the fourth Monday of each month at 5:15 p.m. For information on the location of the meetings, please call (805) 658-4642.

## Special Water Needs

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 microbiological contaminants are available from the EPA Safe Drinking Water Hotline (1-800-426-4791; [www.epa.gov/safewater/](http://www.epa.gov/safewater/)).

## Our Water Source

OPWS is a purveyor of CMWD water. CMWD supplies water from MWD (97%) and its Lake Bard Water Filtration Plant (3%). MWD's drinking water supply is conveyed from the Department of Water Resources State Water Project. In December 2002, MWD completed a source water assessment of its State Water Project Supply. A copy of the assessment can be obtained by contacting MWD at (213) 217-6850. The sources of supply are considered to be most vulnerable to urban/storm water runoff, wildlife, agriculture, recreation and wastewater. The State Water Project supply is filtered and disinfected at MWD's Jensen Filtration Facility, Granada Hills. Following treatment, water is conveyed by pipeline through the San Fernando Valley to CMWD's mile-long tunnel in the Santa Susana Mountains. The water is then distributed by CMWD to purveyors and Ventura County residents. Surplus supplies of this imported water are stored in Lake Bard – CMWD's reservoir in Thousand Oaks.

During 2009, multiple tests were performed by CMWD for over 150 drinking water contaminants of mineral, physical, bacteriological, inorganic, organic and radioactive constituents. CMWD proudly reports their system matched or surpassed all water quality standards.

## The quality of OPWS drinking water met all Federal and State requirements for safe drinking water in 2009

OPWS conducted over 260 tests for disinfectant residuals and more than 1000 samples for microbiological and disinfection byproducts. Those results are summarized in this water quality report.

## General Source Information

The sources of drinking water (both tap 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, which 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**, which 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 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.

In order to ensure that tap water is safe to drink, USEPA and the State Department of Public Health 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.

Este informe contiene información muy importante sobre su agua potable. Hable con alguien que lo entienda bien o que pueda traducirlo.

As you can see from the results, the quality of our water consistently meets all state standards, which are equal to or more stringent than federal EPA water quality standards. Therefore, federal Maximum Contaminant Levels (MCLs) are not listed.

OPWS routinely monitors for contaminants in your drinking water according to federal and state laws. This table shows the results of our monitoring for the period of January 1 to December 31, 2009, along with testing performed by Calleguas MWD (CMWD) and the Metropolitan Water District of Southern California (MWD). All drinking water, including bottled drinking water, may be reasonably expected to contain small amounts of some contaminants.

## Water Quality Data

Our mission is to provide high-quality water that meets or exceeds the water quality standards established by the U.S. Environmental Protection Agency (EPA) and the State of California Department of Public Health (CDPH).

Oak Park Water Service (OPWS) distributes about 80 million gallons of water each month to an estimated population of 14,800.

## Our Mission



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**Annual Water  
Quality Report  
2009 Reporting Year**



Primary Drinking Water Standards—Mandatory Health-Related Standards						
Parameter (Units)	MCL [MRDL]	PHG (MCLG) [MRDLG]	Oak Park Distribution / Reservoirs Average (Range)	Imported Surface Water [MWD Treated] Average (Range)	Locally Stored Imported Water [CMWD Treated] Average (Range)	Major Sources in Drinking Water
Nitrate as Nitrogen (ppm)	10	10	----	0.8 (0.6–0.9)	ND	Runoff and leaching from fertilizer use; leaching from septic tanks and seepage; erosion of natural deposits
Nitrite as Nitrogen (ppm)	1	1	(ND–0.20)	ND	ND	Discharge from refineries; erosion of natural deposits
Selenium (ppb)	50	(50)	----	ND	ND–5	Discharge from refineries; erosion of natural deposits

RADIONUCLIDES						
Parameter (Units)	MCL [MRDL]	PHG (MCLG) [MRDLG]	Oak Park Distribution / Reservoirs Average (Range)	Imported Surface Water [MWD Treated] Average (Range)	Locally Stored Imported Water [CMWD Treated] Average (Range)	Major Sources in Drinking Water
Gross Alpha particle activity (pCi/L)	15	(0)	----	3.4 (ND–7.3)	ND	Erosion of natural deposits
Gross Beta particle activity (pCi/L)	50	(0)	----	ND–5.2	ND	Decay of natural and manmade deposits
Uranium (pCi/L)	20	0.43	----	1.8 (1.6–2.0)	ND (ND–1.9)	Erosion of natural deposits

Secondary Drinking Water Standards—Aesthetic Standards						
Parameter (Units)	MCL [MRDL]	PHG (MCLG) [MRDLG]	Oak Park Distribution / Reservoirs Average (Range)	Imported Surface Water [MWD Treated] Average (Range)	Locally Stored Imported Water [CMWD Treated] Average (Range)	Major Sources in Drinking Water
Chloride (ppm)	500	----	----	77 (ND–100)	ND	Runoff/leaching from natural deposits; seawater influence
Color (color units)	15	----	----	1 (1–2)	3 (ND–5)	Naturally occurring organic materials
Corrosivity [f]	NS	----	----	12.0 (12.0–12.1)	12.0 (11.8–12.1)	Balance of hydrogen, carbon and oxygen in the water; affected by temperature and other factors
Odor Threshold (odor units)	3	----	----	2	ND	Naturally occurring organic materials
Specific Conductance (uS/cm)	1600	----	----	589 (570–610)	624 (609–639)	Substances that form ions when in water; seawater influence
Sulfate (ppm)	500	----	----	65 (56–70)	73 (71–74)	Runoff/leaching from natural deposits; industrial wastes
Total Dissolved Solids (ppm)	1000	----	----	330 (310–340)	325 (310–340)	Runoff/leaching from natural deposits
Turbidity (NTU) [monthly]	5	----	----	0.04 (0.04–0.05)	0.06 (0.03–0.09)	Soil runoff

**Additional Parameters (Unregulated)** - Unregulated contaminant monitoring helps EPA and the California Department of Public Health to determine where certain contaminants occur and whether the contaminants need to be regulated.

### Summary Information for Contaminants Exceeding an MCL or a Violation of any Treatment or Monitoring and Reporting

Parameter (Units)	MCL [MRDL]	PHG (MCLG) [MRDLG]	Oak Park Distribution / Reservoirs Average (Range)	Imported Surface Water [MWD Treated] Average (Range)	Locally Stored Imported Water [CMWD Treated] Average (Range)	Potential Major Sources if Detected in Drinking Water
Alkalinity (ppm)	NS	----	----	89 (84–93)	100 (90–110)	
Boron (ppb)	NS	NL = 1000	----	200 (190–220)	200	
Calcium (ppm)	NS	----	----	30 (27–33)	30 (29–31)	
Hardness, Total (ppm)	NS	----	----	124 (120–130)	135 (130–139)	Leaching from natural deposits
Magnesium (ppm)	NS	----	----	12 (11–12)	15 (14–15)	
N-Nitrosodimethylamine [NDMA] (ppt)	NS	3	----	(2.4–5.6)	ND	
pH (pH units)	NS	----	----	8.2 (8.1–8.3)	8.2 (8.0–8.3)	
Potassium (ppm)	NS	----	----	3	4 (3–4)	
Sodium (ppm)	NS	----	----	68 (66–74)	72 (65–79)	
Total Organic Carbon (ppm)	NS	----	----	1.7 (1.2–1.7)	2.4 (2.2–2.6)	
Vanadium (ppb)	NS	NL = 50	----	6 (6–7)	ND	

There were no MCL violations for supply and distribution system water during the 2009 calendar year.

### Notations

- [a] The turbidity level of the filtered water shall be less than or equal to 0.3 NTU in 95% of the measurements taken each month and shall not exceed 1.0 NTU at any time. Turbidity is a measurement of the cloudiness of the water. It is monitored because it is a good indicator of the effectiveness of the source water filtration system.
- [b] Total Coliform MCLs: No more than 5.0% of the monthly samples may be total coliform positive (or 2 samples if a system collects fewer than 40 samples per month).
- [c] Compliance is based on a running annual average of quarterly distribution system samples. Values indicated include the full range of values observed during the routine Stage 1 Disinfection Byproducts Rule monitoring program and the EPA Initial Distribution System Evaluation monitoring determination for the implementation of Stage 2 DBPR monitoring in April 2012.
- [d] Aluminum has a secondary MCL of 0.2 ppm.
- [e] Values reflect supplemented, delivered system levels. Background levels in the Oak Park distribution system were 0.13 ppm prior to WWD fluoride additions from Nov. 26, 2007.
- [f] Corrosivity, expressed as the Aggressiveness Index (AI) is a result of several tests. AI > 12 indicates non-aggressive; AI < 10 indicates highly aggressive. AI values within 10–12 are moderately aggressive.
- [g] Measured by flavor profile analysis.

\*\* For comparison purposes, the field-reported Oak Park total chlorine distribution system values are shown. Total chlorine field residuals are provided as comparative to the total combined chloramines disinfectant in the distribution system.

Primary Drinking Water Standards—Mandatory Health-Related Standards						
Parameter (Units)	MCL [MRDL]	PHG (MCLG) [MRDLG]	Oak Park Distribution / Reservoirs Average (Range)	Imported Surface Water [MWD Treated] Average (Range)	Locally Stored Imported Water [CMWD Treated] Average (Range)	Major Sources in Drinking Water
<b>CLARITY</b> Combined Filter Effluent Turbidity (NTU) [a]			Highest single value	0.06 Samples less than 0.3 = 100%	0.12 Samples less than 0.3 = 100%	Soil runoff

MICROBIOLOGICAL (Total Coliform Rule)						
Parameter (Units)	MCL [MRDL]	PHG (MCLG) [MRDLG]	Oak Park Distribution / Reservoirs Average (Range)	Imported Surface Water [MWD Treated] Average (Range)	Locally Stored Imported Water [CMWD Treated] Average (Range)	Major Sources in Drinking Water
Total Coliform Bacteria (fb)	2 or 5%	(0)	1 / 0 (Absent)	0 (Absent)	----	Naturally present in the environment Human & animal fecal waste
Fecal Coliform and <i>E. coli</i>	2 or 5%	(0)	0 (Absent)	----	----	

DISINFECTANT BYPRODUCTS AND DISINFECTANT RESIDUALS						
Parameter (Units)	MCL [MRDL]	PHG (MCLG) [MRDLG]	Oak Park Distribution / Reservoirs Average (Range)	Imported Surface Water [MWD Treated] Average (Range)	Locally Stored Imported Water [CMWD Treated] Average (Range)	Major Sources in Drinking Water
Bromate (ppb)	10	0.1	----	6.9 (4.2–12.0)	ND–6.2	Byproduct of drinking water disinfection
Chlorine Residual, Total (ppm)	[4]	[4]	1.9** (1.5–2.2)	2.0 (1.6–1.9)	2.0 (1.6–1.9)	Drinking water disinfectant added for treatment
Halooacetic Acids (HAAs) (ppb) [c]	60	n/a	6.4 (3.2–8.5)	4 (ND–9)	4 (ND–9)	Byproduct of drinking water disinfection
Total Trihalomethanes (ppb) [c]	80	n/a	28 (17–28)	23 (7–30)	23 (7–30)	Byproduct of drinking water chlorination

INORGANICS						
Parameter (Units)	MCL [MRDL]	PHG (MCLG) [MRDLG]	Oak Park Distribution / Reservoirs Average (Range)	Imported Surface Water [MWD Treated] Average (Range)	Locally Stored Imported Water [CMWD Treated] Average (Range)	Major Sources in Drinking Water
Aluminum (ppb) [d]	1000	600	----	77 (ND–100)	ND (ND–3.0)	Erosion of natural deposits; residue from some surface water treatment processes
Arsenic (ppb)	10	0.004	----	3.1 (2.5–3.9)	ND (ND–3.0)	Erosion of natural deposits; runoff from orchards; glass and electronics production wastes
Copper (ppm)	1.3	0.3	----	ND	ND	Internal corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives
Copper - at the customer tap (ppm)	1.3	0.3	90 <sup>th</sup> percentile of 30 samples = 0.150. Result range: 0.004–0.380	0.8 (0.7–0.8)	0.8 (0.7–0.8)	Water additive which promotes strong teeth; erosion of natural deposits
Fluoride (ppm) [e]	2	1	----	0.8 (0.7–0.8)	0.8 (0.7–0.8)	Internal corrosion of household plumbing systems; discharges from industrial manufacturers; erosion of natural deposits
Lead -at the customer tap (ppb)	15	2	90 <sup>th</sup> percentile of 30 samples = 3. Result range: ND–14	9/12/07		

### Abbreviations and Definitions

- NA: Not Analyzed
- ND: Not Detected
- NL: Notification Level
- NS: No Standard
- DLR: Detection Limits for Purposes of Reporting
- ppm: parts per million or milligrams per liter (mg/l) - one part per million corresponds to one minute in two years or a single penny in \$10,000.
- ppb: parts per billion or micrograms per liter - one part per billion corresponds to one minute in 2,000 years, or a single penny in \$10,000,000.
- ppt: parts per trillion or nanograms per liter.
- pCi/L: Pico-Curies per Liter - a measure of the radioactivity in water.
- uS/cm: MicroSiemen per centimeter
- NTU: Nephelometric Turbidity Unit - is a measure of the clarity of water. Turbidity in excess of 5 NTU is just noticeable to the average person.

**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.

**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.

**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.

**Primary Drinking Water Standard (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.

### ADDITIONAL 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 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).*

#### Drinking Water Fluoridation

*The Metropolitan Water District treats their water by adding fluoride to the naturally occurring level in order to help prevent dental caries in consumers. The fluoride levels in the treated water are maintained within a range of 0.7 – 1.3 ppm, as required by California Department of Public Health regulations.*

*For more information about the benefits of drinking water fluoridation, please visit the following web sites:*

**The American Dental Association** <http://www.ada.org/public/topics/fluoride/index.asp>

**The American Water Works Association** <http://www.awwa.org/Advocacy/pressroom/fluoride.cfm>

**U.S. Center for Disease Control and Prevention** <http://www.cdc.gov/OralHealth/index.htm>