

2007



LOS ANGELES COUNTY WATERWORKS DISTRICTS

LOS ANGELES COUNTY WATERWORKS DISTRICT NO. 37, ACTON

ANNUAL WATER QUALITY REPORT

Dear Customer:

The Los Angeles County Waterworks Districts are pleased to provide you with our 2007 Annual Water Quality Report. We are committed to serving you a reliable supply of high quality water that meets State and Federal standards. Our ongoing efforts include increasing the capacity and reliability of the water system and ensuring the quality of our water supply through rigorous water quality testing.

There are two drinking water quality standards, Primary and Secondary Drinking Water Standards. Primary Drinking Water Standards are set for substances that are thought to pose a health risk at certain levels and are enforceable by law. Secondary Drinking Water Standards are set for substances that do not pose a health risk and are intended to control the aesthetic qualities related to the public acceptance of drinking water. Secondary Standards are not enforceable by law. We are pleased to inform you that during all of 2007, your drinking water met all Primary and Secondary Drinking Water Standards.

This report is intended to provide you with a better understanding of your drinking water. It contains information about where your water comes from, how your water is treated and monitored, and what contaminants may be present in your water. Moreover, we have included source water assessments, results from our water quality testing, and general information about your drinking water.

Este informe contiene informacion muy importante sobre su agua potable. Traduzcalo o hable con alguien que lo entienda bien.

Water Quality Monitoring

To ensure that water is safe to drink, the United States Environmental Protection Agency (USEPA) and the California Department of Public Health (CDPH) prescribe regulations that limit the amount of certain contaminants in water provided by public water systems.



To meet these regulations, the District has contracted with a State-certified laboratory to conduct all water quality analyses. Analyses are performed on samples from the source wells and the distribution system. The wells are tested for chemical, physical, radiological, and bacteriological parameters as required by Federal and State regulations. We also test for additional organic and inorganic chemicals that are not yet regulated.

Key locations within the distribution system have been selected to monitor water quality. Every week, the distribution system is tested for bacteria and disinfectant levels to ensure that you receive safe and high quality drinking water. The distribution system is also tested for color, odor, temperature, and turbidity monthly, and disinfection byproducts quarterly. All tests are conducted in a State-certified laboratory using Federally approved testing methods. Our contracted laboratory is equipped with state-of-the-art instruments capable of detecting contaminants at very minute quantities.

Public Participation and Contact Information

The regular meetings of the Los Angeles County Board of Supervisors are held every Tuesday at 9:30 a.m. in the Board's Hearing Room located at 500 West Temple Street, Room 381B, Kenneth Hahn Hall of Administration in Los Angeles. The regular meeting of the Board held on the fourth Tuesday of each month is primarily for the purpose of conducting legally required public hearings on zoning matters, fee increases, special district proceedings, property transactions, etc. On Tuesdays following a Monday holiday, the meetings begin at 1:00 p.m.

The Los Angeles County Waterworks Districts welcome your comments on our Annual Water Quality Report. For questions or comments regarding water quality or this report, please contact Mr. Ron DeVera at (661) 942-1157 Ext. 245 or Mr. Clark Ajwani at (626) 300-4687. To view this report on the internet, please visit our website at <http://ladpw.org/wwd/web/waterquality/>.

The Source of Your Water and Its Treatment

During 2007, approximately 29 percent of the water served in the Los Angeles County Waterworks District No. 37, Acton, was treated surface water and the remaining 71 percent was groundwater. The District purchases its treated surface water from the Antelope Valley-East Kern Water Agency (AVEK). AVEK gets its water from the Sacramento River/San Joaquin Delta via the State Water Project. The District extracts groundwater from the Santa Clara River Valley Groundwater Basin utilizing three wells in the Acton area.

The surface water from AVEK is treated at their treatment plant using conventional treatment methods, which include coagulation, flocculation, sedimentation and filtration. The water is then disinfected to kill any remaining microorganisms, such as bacteria, and reduce the potential for their regrowth in the distribution pipes. The groundwater the District serves is also disinfected with chlorine for the same reasons.

Upcoming Changes to Your Water Treatment

The District's water currently is disinfected with chlorine. Next year, the District will begin disinfecting with chloramines. This will provide customers with superior finished water, containing fewer disinfection by-products such as trihalomethanes. However, persons who use kidney dialysis machines or who own aquariums will need to take special precautions when using water with chloramines. In the next few months, the District will be providing their customers more information on how to be prepared for chloramines, including specific measures that will need to be taken by customers with special needs.

For additional information, contact Melinda Barrett at (626) 300-3362.

Capital Improvements for 2007

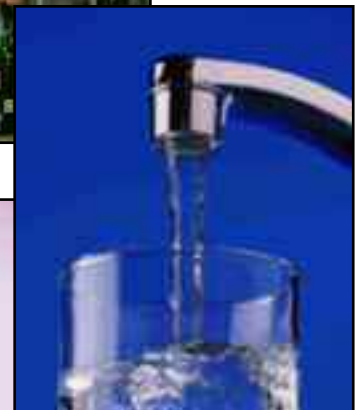
- The District is finishing up construction on a project to convert a waterworks groundwater disinfection facility in Acton from chlorine to chloramine disinfection. The conversion is needed to match the disinfection method that will be used by the Antelope Valley-East Kern Water Agency (AVEK) in 2009.

Source Water Assessment

A source water assessment was conducted for Wells 37-1, 37-3, and 37-4 in the Los Angeles County Waterworks District No. 37, Acton water system in December 2001. These wells are considered most vulnerable to the following activities, although no associated contaminants have been detected in the water produced by these wells.

A copy of the complete assessment may be viewed at: CDPH Los Angeles District Office, 1449 West Temple Street Room 202, Los Angeles CA, 90026, or by contacting Mr. Stefan Cajina at (213) 580-5723.

VULNERABLE WELLS	POSSIBLE CONTAMINATING ACTIVITIES
37-1	HISTORIC GAS STATIONS
37-3	WASTEWATER TREATMENT PLANTS
37-4	WATER SUPPLY WELLS STORM DRAIN DISCHARGE POINTS



Water Quality Data

The table below lists all drinking water contaminants that were detected during the 2007 calendar year. The presence of these contaminants in the water does not necessarily indicate that the water poses a health risk. The District tests weekly for bacteria in the distribution system and none was detected during 2007. Trihalomethanes, haloacetic acids, and chlorine are also tested for regularly in the distribution system and are reported below. The State requires us to monitor certain contaminants less frequently than once per year because the concentrations of these contaminants do not change frequently. Some of the data, though representative of the water quality, may be more than one year old, which is indicated under parameter.

PARAMETER	PHG or MCLG	MCL	TREATED SURFACE WATER		CHLORINATED GROUNDWATER		TYPICAL SOURCE OF CONSTITUENT
			RANGE OF DETECTION	AVERAGE LEVEL	RANGE OF DETECTION	AVERAGE LEVEL	
PRIMARY DRINKING WATER STANDARDS							
INORGANIC CONTAMINANTS							
ALUMINUM (ppm)	0.6	1	ND-0.140	ND	ND	ND	Erosion of natural deposits; residue from some surface water treatment processes
ARSENIC (ppb)	0.004	10	ND	ND	ND-2.46	1.23	Erosion of natural deposits; runoff from orchards; glass and electronics production wastes
FLUORIDE (ppm)	1	2	ND	ND	0.24-0.33	0.28	Erosion of natural deposits; water additive that promotes strong teeth; discharge from fertilizer and aluminum factories
NITRATE (AS NO ₃) (ppm)	45	45	3.3	3.3	9.7-35.8	18.6	Runoff and leaching from fertilizer use; leaching from septic tanks and sewage; erosion of natural deposits
DISINFECTION BYPRODUCT PRECURSORS							
TOTAL ORGANIC CARBON (ppm)	NS	TT	1.0-2.9	1.9	-	-	Various natural and manmade sources
RADIOLOGICAL CONTAMINANTS							
GROSS ALPHA PARTICLE ACTIVITY (pCi/L) 2005	0	15	ND	ND	2.82-4.16	3.48	Erosion of natural deposits
COMBINED RADIUM (226 & 228) (pCi/L) 2005	0	5	ND	ND	ND-2.48	0.53	Erosion of natural deposits
URANIUM (pCi/L) 2005	0.43	20	ND	ND	ND-2.69	0.95	Erosion of natural deposits
SECONDARY DRINKING WATER STANDARDS							
ALUMINUM (ppb)	600	200	ND-140	ND	ND	ND	Erosion of natural deposits; residue from some surface water treatment processes
ZINC (ppm)	NS	5	0.43	0.43	ND	ND	Runoff / leaching from natural deposits; industrial wastes
TOTAL DISSOLVED SOLIDS (ppm)	NS	1000	180	180	272-464	368	Runoff / leaching from natural deposits
SPECIFIC CONDUCTANCE (uS/cm)	NS	1600	350	350	462-820	641	Substances that form ions when in water; seawater influence
CHLORIDE (ppm)	NS	500	51	51	27.0-86.7	56.9	Runoff / leaching from natural deposits; seawater influence
SULFATE (ppm)	NS	500	45	45	37.8-76.2	57.0	Runoff / leaching from natural deposits; industrial wastes
GENERAL PHYSICAL PARAMETERS							
COLOR (units)	NS	15	<5	<5	0	0	Naturally-occurring organic materials
ODOR THRESHOLD (units)	NS	3	<1-2	<1	0	0	Naturally-occurring organic materials
TURBIDITY (units)*	NS	5	0.01-0.17	0.03	0.21-0.56	0.39	soil runoff

* For treated surface water turbidity, the highest single measurement was 0.17 NTU and the lowest monthly percentage of samples meeting the 0.3 NTU EPA limit was 100%

PARAMETER	PHG or MCLG	MCL	TREATED SURFACE WATER		CHLORINATED GROUNDWATER		HEALTH EFFECTS
			RANGE OF DETECTION	AVERAGE LEVEL	RANGE OF DETECTION	AVERAGE LEVEL	
UNREGULATED CONTAMINANTS							
BORON (ppb) 2003	NS	1000 (Notification Level)	–	–	74-137	106	The babies of some pregnant women who drink water containing boron in excess of the notification level may have an increased risk of developmental effects, based on studies in laboratory animals
VANADIUM (ppb) 2003	NS	50 (Notification Level)	–	–	6.94-8.18	7.56	The babies of some pregnant women who drink water containing vanadium in excess of the notification level may have an increased risk of developmental effects, based on studies in laboratory animals
GENERAL MINERAL CONSTITUENTS							
HYDROXIDE ALKALINITY (ppm)	NS	NS	<1	<1	ND	ND	Leaching from natural deposits
CARBONATE ALKALINITY (ppm)	NS	NS	<1	<1	ND	ND	Leaching from natural deposits
BICARBONATE ALKALINITY (ppm)	NS	NS	50	50	166-204	184	Leaching from natural deposits
TOTAL ALKALINITY (as CaCO ₃) (ppm)	NS	NS	50	50	–	–	Leaching from natural deposits
CALCIUM (ppm)	NS	NS	17	17	48.0-76.2	56.6	Leaching from natural deposits
TOTAL HARDNESS (ppm)	NS	NS	81	81	170-300	240	Leaching from natural deposits
MAGNESIUM (ppm)	NS	NS	9.4	9.4	12.1-26.7	19.4	Leaching from natural deposits
pH (pH units)	NS	NS	6.7-7.6	7.12	7.20-7.67	7.41	Natural acidity/alkalinity of water
POTASSIUM (ppm)	NS	NS	2.9	2.9	–	–	Leaching from natural deposits
SODIUM (ppm)	NS	NS	37	37	24-39	31	Leaching from natural deposits

DISTRIBUTION SYSTEM WATER QUALITY					
DISINFECTANTS & DISINFECTION BYPRODUCTS	MCLG OR [MRDLG]	MCL OR [MRDL]	RANGE OF DETECTION	HIGHEST 4-QUARTERLY AVERAGE	TYPICAL SOURCE OF CONSTITUENT
TOTAL CHLORINE (ppm)	[4] as Cl ₂	[4] as Cl ₂	0.66-0.81	0.72	Drinking water disinfectant added for treatment
TOTAL TRIHALOMETHANES (ppb)	NS	80	1.6-106.0	29.4	Byproduct of drinking water chlorination
HALOACETIC ACIDS (ppb)	NS	60	0.0-59.0	14.8	Byproduct of drinking water chlorination

RESIDENTIAL TAP WATER QUALITY							
LEAD AND COPPER	PHG	ACTION LEVEL	RANGE OF DETECTION	90TH % LEVEL	NUMBERS OF SITES SAMPLED	NUMBER OF SITES ABOVE ACTION LEVEL	TYPICAL SOURCE OF CONSTITUENT
COPPER (ppm) 2005	0.17	1.3	ND-0.88	0.38	25	0	Internal corrosion of household plumbing system; erosion of natural deposits; leaching from wood preservatives
LEAD (ppb) 2005	2	15	ND	ND	25	0	Internal corrosion of household plumbing system; discharge from industrial manufacturers; erosion of natural deposits

TERMS AND ABBREVIATIONS USED IN THE WATER QUALITY DATA TABLE							
<p>Maximum Contaminant Level (MCL) is the highest level of a contaminant that is allowed in drinking water. MCLs are set as close to the PHGs and MCLGs as is economically or technologically feasible.</p> <p>Maximum Contaminant Level Goal (MCLG) is 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.</p> <p>Public Health Goal (PHG) is 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.</p> <p>Maximum Residual Disinfectant Level (MRDL) is the level of a disinfectant added for water treatment that may not be exceeded at the consumer's tap.</p>				<p>Maximum Residual Disinfectant Level Goal (MRDLG) is the level of a disinfectant added for water treatment below which there is no known or expected risk to health. MRDLs are set by the USEPA.</p> <p>Primary Drinking Water Standards (PDWS) are MCLs and MRDLs for contaminants that affect health along with their monitoring and reporting requirements, and water treatment requirements.</p> <p>Regulatory Action Level (AL) is the concentration of a contaminant which, if exceeded, triggers treatment or other requirements which a water system must follow.</p> <p>Treatment Technique (TT) is a required process intended to reduce the level of a contaminant in drinking water.</p>			
ppm = parts per million (milligrams per liter)	pCi/L = picoCuries per liter	ND = None Detected	uS/cm = microSiemens per centimeter	– No Sample Taken			
ppb = parts per billion (micrograms per liter)	NA = Not Applicable	NS = No Standard	NTU = Nephelometric Turbidity Unit				

CONTAMINANTS THAT MAY BE PRESENT IN WATER

The sources of drinking water include rivers, lakes, streams, ponds, reservoirs, springs, and wells. As water travels over land surface 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 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 use.

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 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 tap water is safe to drink, the USEPA and CDPH prescribe regulations that limit the amount of certain contaminants in water provided by public water systems. CDPH regulations also establish limits for contaminants in bottled water that provide the same protection for public health.

Drinking water, including bottled water, may reasonably be expected to contain at least small amounts of 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).

THE QUALITY OF YOUR WATER

Lead and Copper: During 2005, we conducted lead and copper sampling from several high-risk homes in the District as required by CDPH. The 90th percentile result for copper was 0.38 milligrams per liter and below detectable levels for lead. These results are well below the regulatory Action Levels for lead and copper in drinking water. The next round of lead and copper monitoring is scheduled for 2008.

Nitrate: Nitrate in drinking water at levels above 45 mg/L is a health risk for infants of less than six months of age. Such nitrate levels in drinking water can interfere with the capacity of the infant's blood to carry oxygen, resulting in a 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 certain specific enzyme deficiencies. If you are caring for an infant, or you are pregnant, you should seek advice from your health care provider.

Cryptosporidium: Cryptosporidium is a microscopic organism that causes a gastro-intestinal disease called cryptosporidiosis which may cause diarrhea, headache, abdominal cramps, nausea, vomiting, and low grade fever. The infectious microorganism can be transmitted through ingestion of con-

taminated food, drinking water, or by direct contact with the fecal matter of infected persons or animals.

The chance of its presence in the water supply is extremely small because it is being monitored on a regular basis and very low levels, hundreds of times lower than those reported in other parts of the Country, have been detected in untreated water. Multiple barrier treatment which includes coagulation, flocculation, filtration, and disinfection at AVEK treatment plants further minimize the chance of its presence in treated water.

While the general public is at a very low risk of contracting Cryptosporidium, 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 risks of infection by Cryptosporidium and other microbial contaminants are available from the Safe Drinking Water Hotline (1-800-426-4791).

Bottled Water, Home Treatment Devices, and Softeners

Bottled water need not be purchased for health reasons, since tap water meets the Federal and State drinking water standards. If taste is an issue, bottled water might be the answer, but keep in mind that it is over 1,000 times more expensive than tap water.

Installation of a home treatment unit is a personal matter. These devices are not required to make the water meet the Federal and State drinking water standards. In fact, if not properly maintained, these devices may actually cause water quality problems. However, some people are concerned about the taste of their drinking water. If taste is an issue, then a home treatment unit might be appropriate. All units require maintenance and should be bought from a reputable dealer. They should also be tested and validated against accepted performance standards like those used by the National Sanitary Foundation (NSF).

Hardness in drinking water is caused by two non-toxic minerals: calcium and magnesium. Hard water reduces the amount of lather or suds produced by soap. Hard water also tends to leave deposits such as rings in the bathtub, scales on cooking pots and irons, and spots on glassware. At a hardness level above 120 milligrams per liter, a water softener might be considered to reduce deposits in the hot water system and to make washing easier. Distilled water may be used in place of drinking water in irons to prevent deposits.

Water softeners generally replace the non-toxic hardness minerals in the water with sodium. Although the amount of sodium produced is relatively insignificant in comparison to the sodium found in food, people with sodium restricted diets should consult their doctor or install a softener for their hot water supply only.



Water Conservation Information

Water is an essential resource, not a commodity. The arid climate in Southern California limits our fresh water supply. Conserving water, or being “water wise,” protects our natural water supplies, reduces the risk of water shortages during spring and summer months, and reduces your water bill. Water conservation is not as complicated or demanding as you might think.

In addition to protecting the quality of water delivered to you, we also promote and implement water conservation programs in your area. You can conserve water at home and save money by observing the following practical guidelines:

- Install a low flow toilet or use a water displacement device in your toilet and save 2 to 6 gallons of water for every flush. Check the flapper in your toilet to make sure water is not constantly leaking into the toilet bowl.
- Run your dishwasher or washing machine with only full loads and save 300 to 800 gallons every month.
- Install a low flow showerhead and save a gallon of water during each minute of your shower.
- Up to 70% of residential water use occurs outdoors. When designing the landscaping around your home, ask your local gardening store for advice on plants and turf that, once established, will require minimal, if any, watering. Group plants with similar water needs together. Consider minimizing the amount of turf areas in your landscaping because grass usually requires the most water.
- Sweep your sidewalks and driveways instead of hosing them and save up to 4 gallons of water per minute that you would have spent using the hose.
- Check your pipes and faucets regularly for leaks and repair them promptly. Call our office at (800) 675-HELP to report leaks in our system.
- Attend a Smart Gardening Workshop for tips on landscaping techniques to irrigate efficiently and protect the environment. For more information visit www.888CLEANLA.com
- Visit www.bewaterwise.org or www.lacwaterworks.org for practical “how-to” information on water conservation.
- Call (888) 987-9473 or email conserve@waterwise-consulting.com to request a conservation specialist to visit your home at no cost to you, and receive personalized recommendations for water conserving measures to reduce your water usage without affecting your quality of life.

If you have any questions or comments regarding water conservation, visit www.888cleanLA.com. You may also call 1-888-CLEANLA or contact Ms. Melinda Barrett at (626) 300-3362.