

LAKESIDE WATER DISTRICT CONSUMER CONFIDENCE REPORT

Test results from Calendar Year 2004

(Este informe contiene informacion muy importante sobre su agua potable. Traduzca a hable con alguien que lo entienda bien.)

Parameter	Units	State or Federal MCL [MRDL]	PHG (MCLG) [MRDLG]	State DLR	Range Average	Lakeside Wells	Helix Plant	Combined Skinner Plants	Major Sources in Drinking Water
Percent State Project Water	%	NA	NA	NA	Range Average	NA 37	18-45 37	18-45	
PRIMARY STANDARDS—Mandatory Health-Related Standards									
CLARITY									
Combined Filter	NTU	0.3			Highest	0.29	0.10	0.09	
Effluent Turbidity	%	95 (a)	NA	NA	% < 0.3	100	100	100	Soil runoff
MICROBIOLOGICAL									
Total Coliform					Range	0	0%	0%	Naturally present in the environment
Bactera	%	5.0 (b)	(0)	NA	Average	0	0%	0%	
Fecal Coliform and E. coli	(c)	(c)	(0)	NA	Range	0	0	0	Human and animal fecal waste
					Average	0	0	0	
INORGANIC CHEMICALS									
Aluminum (f)	ppb	1000	600	50	Range	ND	160-161	ND	Residue from water treatment process; natural deposits; erosion
					Average	ND	160	ND	
					Range	ND	ND-2.2	ND	Natural deposits erosion, glass and electronics production wastes
Arsenic	ppb	50	0.004	2	Average	ND	ND	ND	
Barium	ppb	1000	2000	100	Range	165-314	ND-110	ND	Oil and metal refineries discharges; natural deposits erosion
					Average	239	ND	ND	
					Range	1.1-1.7	NA	NA	Internal corrosion of galvanized pipes; erosion of natural deposits; discharge from electroplating & industrial chemicals
Cadmium	ppb	5	.07	1	Average	1.4	NA	NA	
Fluoride	ppm	2	1	0.1	Range	0.25-0.3	0.21-0.27	0.21-0.30	Erosion of natural deposits; water additive for tooth health
					Average	0.32	0.23	0.24	
					Range	4.78-9.9	ND	ND-0.54	Runoff and leaching from fertilizer use; sewage, natural erosion
Nitrate (as N) (h)	ppm	10	10	0.4	Average	7.34	ND	ND	
Nitrate and Nitrite (as N)	ppm	10	10	0.4	Range	0.01-0.05	ND	ND-0.54	Runoff and leaching from fertilizer use; sewage; natural erosion
					Average	0.03	ND	ND	
RADIOLOGICALS (i)									
Gross Alpha Particle Activity	pCi/L	15	NA	3	Range	0.6-5.7	ND-11.3	ND-4.0	Erosion of natural deposits
					Average	3.15	3.8	3.4	
Gross Beta Particle Activity	pCi/L	50	NA	4	Range	NA	ND-5.5	ND-4.1	Decay of natural and man-made deposits
					Average	NA	ND	ND	
Uranium	pCi/L	20	0.5	2	Range	NA	ND-2.7	ND-2.4	Erosion of natural deposits
					Average	2.2	2.2	ND	
DISINFECTION BY-PRODUCTS, DISINFECTANT RESIDUALS, & DISINFECTION BY-PRODUCTS PRECURSORS (FEDERAL RULE) DISTRIBUTION SYSTEM									
Total Trihalomethanes (TTHM) (k)	ppb	80	NA	0.5	RAA Range	35-50.8	NA	NA	By-product of drinking water chlorination
					RAA Avg	38.8	NA	NA	
Haloacetic Acids (five) (HAA5) (k,l)	ppb	60	NA	1 (l)	Range	11.9-24	NA	NA	By-product of drinking water chlorination
					Average	16.17	NA	NA	
Total Chlorine Residual	ppm	[4.0]	[4.0]	NA	Range	1.19-1.6	NA	NA	Drinking water disinfectant added for treatment
					Highest RA	1.50	NA	NA	
					RAA Range	NA	ND	NA	By-product of drinking water ozonation
					Highest RAA	NA	ND	NA	
Bromate (m)	ppb	10	(0)	5					
SECONDARY STANDARDS—Aesthetic Standards									
Aluminum (f)	ppb	200	600	50	Range	ND	160-161	ND	Residue from water treatment process; natural deposits erosion
					Average	ND	160	ND	
					Range	185-321	79-90	80-92	Runoff/leaching from natural deposits; seawater influence
Chloride	ppm	500	NA	NA	Average	253	84	85	
					Range	0	1-3	1-3	Naturally occurring organic materials
Color	Units	15	NA	NA	Average	0	1	2	
					Range	Non-	Non-	0.18-0.32	Elemental balance in water; affected by temperature, other factors
Corrosivity	SI	non-corrosive	NA	NA	Average	Corrosive	Corrosive	0.26	Naturally occurring organic materials
					Range	0-2.5	1-4	1	
Odor Threshold (n)	Units	3	NA	NA	Average	1.25	1	1	
					Range	1320-194	869	786-947	Substances that form ions in water; seawater influence
Specific Conductance	µS/cm	1600	NA	NA	Average	1630	869	827	Runoff/leaching from natural deposits; industrial wastes
					Range	217-259	170-210	153-212	
Sulfate	ppm	500	NA	0.5	Average	238	183	169	Runoff/leaching from natural deposits; seawater influence
Total Dissolved Solids (TDS)	ppm	1000	NA	NA	Range	876-1280	530	466-574	
					Average	1078	530	492	
					Range	.33-1.19	0.04-0.0	0.05-0.07	
Turbidity (a)	NTU	5	NA	NA	Average	.76	0.05	0.06	Soil runoff
UNREGULATED CHEMICALS REQUIRING MONITORING									
Boron	ppb	NA	AL = 1,000	100	Range	126-160	120-140	130-140	Runoff/leaching from natural deposits; industrial wastes
					Average	143	125	140	
					Range	6.4-12.9	3.7-5.2	ND	Naturally-occurring; industrial
Vanadium	ppb	NA	AL=50	3	Average	9.65	4.5	ND	Waste discharge
ADDITIONAL PARAMETERS; MICROBIAL CONTAMINANTS									
HPC (d)	CFU/mL	TT	NA	NA	Range	ND	NA	<1-4	Naturally present in the environment
					Average		NA	<1	
OTHER PARAMETERS									
Alkalinity	ppm	NA	NA	-	Range	218-332	95-128	103-124	
					Average	275	109	110	
					Range	112-155	54-63	51-64	
Calcium	ppm	NA	NA	-	Average	133	58	54	

					Range	478-673	225-264	218-289
Hardness	ppm	NA	NA	-	Average	575	246	230
					Range	48.4-60.6	22-26	22-26.5
Magnesium	ppm	NA	NA	-	Average	59	24	23
					Range	7.09-7.4	7.5-8.1	8.0-8.1
pH	Units	NA	NA	-	Average	7.25	7.9	8.1
					Range		3.9-5.0	3.8-4.3
Potassium	ppm	NA	NA	-	Average		4.5	4.0
					Range	122-201	76-87	74-90
Sodium	ppm	NA	NA	-	Average	161.5	81	78
					Range	NA	1.9-3.7	2.1-3.0
TOC (p)	ppm	TT	NA	0.30	Average		3.0	2.5
								Various natural and man-made sources

Abbreviations

AL	CA Action Level; as of 1/05. AL is notification level (NL)	MPN	Most Probable Number	ppm	parts per million or milligrams per liter (mg/L)
CFU/mL	Colony-Forming Units per milliliter	MRDL	Max. Residual Disinfectant Level	ppq	parts per quadrillion or picograms per liter (pg/L)
DCPA	Dimethyl Tetrachloroterephthalate	MRDLG	Max. Residual Disinfectant Level Goal	ppt	parts per trillion or nanograms per liter (ng/L)
DBP	Disinfection By-Products	N	Nitrogen	RAA	Running Annual Average
DLR	Detection Limits for Reporting	NA	Not Applicable	SI	Saturation Index (Langelier)
HAA5	Haloacetic Acids (five)	ND	None Detected	TOC	Total Organic Carbon
MBAS	Methylene Blue Active Substances	NTU	Nephelometric Turbidity Units	TTHM	Total Trihalomethanes
MCL	Maximum Contaminant Level	pCi/L	picoCuries per liter	TT	Treatment Technique
MCLG	Maximum Contaminant Level Goal	PHG	Public Health Goal	µS/cm	microSiemen per centimeter; also equivalent to
MFL	Million Fibers per Liter	ppb	parts per billion or micrograms per liter (µg/L)	µmho/cm	(micromho per centimeter)

Footnotes

- (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 NTU at anytime. Turbidity is a measure of the cloudiness of the water and is an indicator of treatment performance. The monthly averages and ranges of turbidity shown in the Secondary Standards section were based on the plant effluents.
- (b) Total coliform MCLs: No more than 5.0% of the monthly samples may be total coliform-positive. Compliance is based on the combined distribution system sampling from all the filtration plants. In 2004, 11,592 samples were analyzed. The MCL was not violated.
- (c) Fecal coliform/E.coli MCLs: The occurrence of 2 consecutive total coliform-positive samples, one of which contains fecal coliform/E. coli, constitutes an acute MCL violation. The MCL was not violated in 2004.
- (d) HPC values were based on the monthly averages of the plant effluent samples. In 2004, all distribution samples collected had detectable total chlorine residuals and no HPC was required.
- (e) In 2004, the plant effluents had no detectable Cryptosporidium, Giardia, or Total Culturable Viruses.
- (f) Aluminum has both primary and secondary standards.
- (g) Original footnote from MWD and not applicable to this summary
- (h) State MCL is 45 mg/L as nitrate, which equals 10 mg/L as N.
- (i) Helix results from 2001 & Skinner results from 2002/03 4-quarter radiological monitoring program.
- (j) Standard is for Radium-226 and -228 combined.
- (k) Lakeside Water District distribution system-wide average THMs and HAA5 samples were collected quarterly. In 2004, Lakeside Water District was in compliance By-Products (D/DBP) Rule.
- (l) DLR = 1.0 ppb for each HAA5 analyte (dichloroacetic acid, trichloroacetic acid, monobromoacetic acid, and dibromoacetic acid except for monochloroacetic acid monobromoacetic acid, and dibromoacetic acid) except for monochloroacetic which has a DLR = 2.0 ppb.
- (m) Running annual average was calculated from monthly samples.
- (n) Metropolitan has developed a flavor-profile analysis method that can more accurately detect odor occurrences. For more info. contact MWD @ (213) 217-6850.
- (p) TOCs at the filtration plants were taken at the filter effluents.
- (q) MWD range for the filtration plant influents and effluents were taken from quarterly samples. No NDMA was detected at the plant influents. Distribution system-wide range were taken from nine (9) samples collected quarterly.

CONSUMER CONFIDENCE REPORT: Educational Information

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.

Lakeside Water District's groundwater source is the Santee-El Monte Basin, a groundwater source for many in our community. The basin provides good water quality that has small amounts of iron and manganese, which we remove with a specially designed treatment plant located at our Administration and Operations facility at 10375 Vine Street, Lakeside. A source water assessment detailing potential sources of contamination completed in January 2005 is available for review upon request at the District office.

Contaminates 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, 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 byproducts of industrial processes and petroleum production, and can also come from gas stations, urban stormwater runoff, and septic systems.

Radioactive contaminants, which can occur naturally or as a result of oil and gas production and mining.

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

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. 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. More information about contaminants and potential health effects, as well as the 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 EPA's Safe Drinking Water Hotline (1-800-426-4791).

If you have any questions about the CCR or water quality in general, please call Lakeside Water District at 443-3805.

**LAKESIDE WATER DISTRICT
BOARD OF DIRECTORS
(619) 443-3805**

Our Water Board meets at the
District Office on the first Tuesday
of each month at 5:30 p.m.

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