

# LAKESIDE WATER DISTRICT CONSUMER CONFIDENCE REPORT

Test Results from Calendar Year 2022

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

Parameter	Units	State MCL [MRDL]	PHG (MCLG) [MRDLG]	State DLR	Range Average	Lakeside Wells	Helix Plant	Skinner Plant	Major Sources in Drinking Water
Percent State Project Water	%	NA	NA	NA	Range	NA	NR	0-43%	Lakeside Water District's major water source is SDCWA treated surface water via Helix Water District
					Average	NA	NR	NR	
PRIMARY STANDARDS--Mandatory Health-Related Standards									
CLARITY									
Combined Filter Effluent Turbidity	NTU %	0.3 95 (a)	NA	NA	Highest % < 0.3 NTU	.18 100%	NA-.22 100%	.05 100%	Soil runoff
MICROBIOLOGICAL									
Total Coliform Bacteria (b)	Distribution System-wide: % 5.0 (0)			NA	Range: Average	0 0.00%	0-0.60 0.00%	0 0	Naturally present in the environment
E. coli	Distribution System-wide: (c) (c) (0)			NA	Range: Average	ND ND	0 0.00%	0 0	Human and animal fecal waste
INORGANIC CHEMICALS									
Aluminum (Al) (d)	ppb	1000	600	50	Range Highest RAA	ND ND	160-500 294	ND-230 113	Residue from water treatment process; natural deposits erosion
Arsenic (As)	ppb	10	0.004	2	Range Highest RAA	ND ND	ND-3.4 ND	ND ND	Natural deposits erosion, glass and electronics production waste
Barium (Ba)	ppb	1000	2000	100	Range Average	150-190 170	ND-.12 ND	ND ND	Oil and metal refineries discharge; natural deposits erosion
Fluoride (e) Treatment-related	ppm	2.0	1	0.1	Control Range Optimal Level Range Average	.13-.30 .22	0.6-1.0 .7	.6-.8 0.7	Water additive Lakeside has (naturally occurring) Fluoride from erosion of natural deposits
Nitrate (as N)	ppm	10 (as N)	10 (as N)	0.4	Range Highest RAA	1.9-2.7 2.3	NR NR	ND ND	Runoff and leaching from fertilizer use; septic tank and sewage; natural deposits erosion
RADIOLOGICALS (k) To be tested every 3 years: Last tested in 2021									
Gross Alpha Particle Activity	pCi/L	15	(0)	3	Range Average	9.82-11.1 10.46	ND-3.8 ND	ND-3 ND	Erosion of natural deposits
Gross Beta Particle Activity (f)	pCi/L	50	(0)	4	Range Average	ND ND	NR NR	5-8 7	Decay of natural and man-made deposits
Uranium	pCi/L	20	0.43	1	Range Average	2.83-4.45 3.8	ND-2.57 1.30	ND-2 2	Erosion of natural deposits
DISINFECTION BY-PRODUCTS, DISINFECTANT RESIDUALS, AND DISINFECTION BY-PRODUCTS PRECURSORS (g)									
Total Trihalomethanes (TTHM) (g)(l)	ppb	Distribution System-wide: 80 NA 1			Range Highest LRAA	16-42 29	16.9-33.2 26.2	14-29 20	By-product of drinking water chlorination
Haloacetic Acids (five) (HAA5) (g)(l)	ppb	Distribution System-wide: 60 NA 1			Range Highest LRAA	3.0-9.6 7	1.8-17.4 12	6.0-13 9.0	By-product of drinking water chlorination
Total Chlorine Residual (Chloramine)	ppm	Distribution System-wide: [4.0] [4.0] NA			Range RAA	0.7-3.4 2.2	0.0-3.7 2.5	NA NA	Drinking water disinfectant added for treatment
DBP Precursors Control (TOC)	ppm	TT	NA	0.30	Range Average	NA NA	1.6-3.2 2.3	2.3-2.6 2.5	Various natural and man-made sources
SECONDARY STANDARDS--Aesthetic Standards									
Chloride	ppm	500	NA	NA	Range Average	250-270 260	89-110 100	98-106 102	Runoff/leaching from natural deposits; seawater influence
Color	Units	15	NA	NA	Range Average	ND ND	NR NR	1-2 2	Naturally occurring organic materials
Odor Threshold (h)	TON	3	NA	1	Range Average	ND ND	NR NR	1 1	Naturally-occurring organic materials
Specific Conductance	µS/cm	1600	NA	NA	Range Average	580-1500 1040	830-1000 930	944-1030 987	Substances that form ions in water; seawater influence
Sulfate(SO <sub>4</sub> )	ppm	500	NA	0.5	Range Average	180-230 205	170-220 195	206-229 218	Runoff/leaching from natural deposits; industrial wastes
Total Dissolved Solids (TDS)	ppm	1000	NA	NA	Range Average	940-1100 1020	480-680 580	591-651 621	Runoff/leaching from natural deposits; seawater influence
Turbidity (a)	NTU	5	NA	NA	Range Average	.15 .15	NR NR	ND ND	Soil runoff
OTHER PARAMETERS									
CHEMICAL									
Alkalinity (CaCO <sub>3</sub> )	ppm	NA	NA	NA	Range Average	230-280 255	110-120 117	119-128 124	Runoff/leaching from natural deposits; Substances that form ions in water
Boron (B)	ppb	NA	NL = 1000	100	Range Average	NR NR	ND-.15 .09	130 130	Runoff/leaching from natural deposits; industrial wastes
Calcium (Ca)	ppm	NA	NA	NA	Range Average	113-118 116	59-76 69	63-71 67	Runoff/leaching from natural deposits;
Perchlorate	ppb	NA	NL = 800	20	Range Average	ND ND	NR NR	ND ND	By-product of drinking water chlorination; industrial processes
Corrosivity (j) (Aggressiveness Index)	Al	NA	NA	NA	Range Average	NR NR	12.2-12.7 12.4	12.4-12.5 12.4	Elemental balance in water; affected by temperature, other factors
Hardness (CaCO3)	ppm	NA	NA	NA	Range Average	477-508 493	243-304 278	263-282 272	Runoff/leaching from natural deposits; Municipal and industrial waste discharges
Magnesium (Mg)	ppm	NA	NA	NA	Range Average	47.5-51.8 49.7	23-28 26	24-26 25	Runoff/leaching from natural deposits;
pH	pH Units	NA	NA	NA	Range Average	7.65-7.76 7.71	8.1-8.4 8.3	8.1-8.2 8.2	Runoff/leaching from natural deposits; Substances that form ions in water
Potassium	ppm	NA	NA	NA	Range Average	4.4-4.5 4.45	4.7-5.1 4.9	4.4-4.8 4.6	Runoff/leaching from natural deposits;
Sodium (Na)	ppm	NA	NA	NA	Range Average	120-170 150	83-100 94	96-103 100	Runoff/leaching from natural deposits;

Vanadium (V)	ppb	NA	NL = 50	3	Range	NA	ND	ND	Naturally-occurring; industrial waste discharge
					Average	NA	ND	ND	
LEAD AND COPPER TESTING: Number of Sample Sites =30. The 90th Percentile Levels = <b>0.036 PPM</b> for Copper and <b>.0027 PPM</b> for Lead									
Number of sites above action level of 0.015 PPM Lead, and 1.3 PPM for Copper = <b>0</b> sites. Lead and Copper tested in August 2022 (required every 3 years)									
Number of schools served by Lakeside Water District that requested Lead sampling during the calendar year = <b>0</b>									

**ABBREVIATIONS AND FOOTNOTES**

Abbreviations		Footnotes	
AI	Aggressiveness Index	(a)	The turbidity level of the filtered water shall be less than or equal to 0.3 NTU
AL	Action Level		in 95% of the measurements taken each month and shall not exceed 1 NTU
CFU	Colony-Forming Units		at any time. Turbidity is a measure of the cloudiness of the water and is an
DBP	Disinfection By-Products		indicator of treatment performance. The averages and ranges of turbidity
DLR	Detection Limits for purposes of Reporting		shown in the Secondary Standards were based on the treatment plant effluent.
MCL	Maximum Contaminant Level	(b)	Total coliform MCLs: No more than 5.0% of the monthly samples may be
MCLG	Maximum Contaminant Level Goal		total coliform-positive. The MCL was not violated
MRDL	Maximum Residual Disinfectant Level	(c)	<i>E. coli</i> MCL: The occurrence of two consecutive total coliform-positive
MRDLG	Maximum Residual Disinfectant Level Goal		samples, one of which contains <i>E. coli</i> , constitutes an acute MCL violation.
N	Nitrogen		The MCL was not violated.
NA	Not Applicable	(d)	Aluminum has both primary and secondary standards.
ND	Not Detected	(e)	MWD, Helix, and Lakeside were in compliance with all provisions of the State's Fluoridation
NL	Notification Level		System Requirements.
NR	Not Reported	(f)	The gross beta particle activity MCL is 4 millirem/year annual dose equivalent
NTU	Nephelometric Turbidity Units		to the total body or any internal organ. The screening level is 50 pCi/L.
P or ND	Positive or Not Detected	(g)	MWD, Helix, and Lakeside were in compliance with all provisions of the Stage 1 Disinfectants/
pCi/L	picoCuries per Liter		Disinfection By-Products (D/DBP) Rule. Compliance was based on the RAA.
PHG	Public Health Goal	(h)	Metropolitan utilizes a flavor-profile analysis method that can detect odor
ppb	parts per billion or micrograms per liter (µg/L)		occurrences more accurately.
ppm	parts per million or milligrams per liter (mg/L)	(i)	Chromium VI reporting level is 0.03 ppb.
ppq	parts per quadrillion or picograms per liter (pg/L)	(j)	AI <10.0 = Highly aggressive and very corrosive water
ppt	parts per trillion or nanograms per liter (ng/L)		AI > 12.0 = Non-aggressive water
RAA	Running Annual Average		AI (10.0 - 11.9 ) = Moderately aggressive water
SI	Saturation Index (Langelier)	(k)	Radiological sampling is required only ever third year
TOC	Total Organic Carbon	(l)	Helix THM and HAA5 only available upon request from Helix Water District
TON	Threshold Odor Number		
TT	Treatment Technique		
µS/cm	microSiemen per centimeter; or		Treatment Technique (TT): A required process intended to reduce the level of a contaminant in drinking water.
	micromho per centimeter (µmho/cm)		

**Lakeside Water District Board of Directors**  
**(619) 443-3805**  
**President**                **Frank Hilliker**  
**Vice President**        **Eileen Neumeister**  
**Directors**                **Pete Jenkins**  
                                     **Steve Johnson**  
                                     **Steve Robak**  
  
**General Manager**      **Brett Sanders**

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

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.

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.

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.

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