

The Metropolitan Water District of Southern California

GENERAL MINERAL AND PHYSICAL ANALYSIS OF METROPOLITAN'S WATER SUPPLIES

TABLE D
October 2023

CONSTITUENTS	UNITS	SOURCE WATERS								TREATMENT PLANT EFFLUENTS				
		LAKE HAVASU	SAN JACINTO TUNNEL	LAKE MATHEWS	CASTAIC LAKE	SILVER- WOOD LAKE	LAKE PERRIS	DIAMOND VALLEY LAKE	LAKE SKINNER	WEY- MOUTH	DIEMER	JENSEN	SKINNER	MILLS
SILICA	mg/L	8.0	7.8	7.3	16.1	9.6	2.8	7.6	9.6	9.4	8.5	15.9	9.1	9.4
CALCIUM	mg/L	79	77	70	40	16	29	23	37	28	52	40	39	17
MAGNESIUM	mg/L	28	27	27	12	8	14	11	15	13	21	12	15	9
SODIUM	mg/L	111	110	108	51	30	64	48	59	55	91	60	69	40
POTASSIUM	mg/L	5.4	5.3	5.1	2.6	2.4	3.8	3.2	3.4	3.0	4.3	2.6	3.6	2.5
ALKALINITY, CARBONATE AS CO ₃	mg/L	0	0	0	0	0	0	0	0	2	4	2	2	5
ALKALINITY, BICARBONATE AS HCO ₃	mg/L	165	162	149	112	74	133	96	111	90	117	120	107	68
SULFATE	mg/L	238	263	253	91	23	48	42	103	72	175	95	113	32
CHLORIDE	mg/L	109	118	116	45	42	87	61	69	55	91	48	72	44
NITRATE	mg/L	1.3	1.5	0.4	3.8	1.8	<0.1	0.6	0.4	1.2	0.8	3.9	0.6	1.4
FLUORIDE	mg/L	0.3	0.4	0.4	0.3	<0.1	0.1	0.1	0.2	0.6	0.6	0.6	0.7	0.6
TOTAL DISSOLVED SOLIDS (TDS)	mg/L	662	691	662	318	170	315	244	352	284	507	340	378	195
TOTAL HARDNESS AS CaCO ₃	mg/L	312	310	290	150	73	131	103	153	122	220	153	165	79
TOTAL ALKALINITY AS CaCO ₃	mg/L	135	133	122	92	61	109	79	91	78	102	102	92	64
FREE CARBON DIOXIDE	mg/L	2.3	1.4	1.4	6.6	1.5	2.2	2.7	1.6	0.4	0.6	0.5	0.6	0.3
pH	pH	8.07	8.28	8.24	7.45	7.92	8.00	7.77	8.07	8.62	8.51	8.61	8.53	8.69
SPECIFIC CONDUCTANCE	µS/cm	1080	1080	1030	537	300	562	446	580	507	859	578	664	359
COLOR	CU	3	3	3	10	10	5	5	5	1	2	1	1	1
TURBIDITY	NTU	2.2	0.52	0.38	1.4	1.8	1.1	0.52	0.95	0.04	0.03	0.04	0.06	0.05
TEMPERATURE	°C	25	24	24	14	21	21	18	21	22	23	19	26	24
BROMIDE	mg/L	0.09	0.08	0.10	0.14	0.13	0.29	0.18	0.13	--	--	--	--	--
TOTAL ORGANIC CARBON	mg/L	3.14	2.98	3.36	3.30	3.54	4.72	3.19	3.62	--	--	--	--	--
SATURATION INDEX	--	--	--	--	--	--	--	--	--	0.58	0.83	0.79	0.75	0.42
STATE PROJECT WATER	%	0	0	0	100	100	100	100	63	78	37	100	58	100