

The Metropolitan Water District of Southern California

GENERAL MINERAL AND PHYSICAL ANALYSIS OF METROPOLITAN'S WATER SUPPLIES

TABLE D
September 2024

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	8.7	8.4	7.8	14.3	10.6	4.2	8.9	9.9	8.6	8.9	14.5	9.5	11.0
CALCIUM	mg/L	75	74	70	38	14	26	23	61	59	56	39	63	16
MAGNESIUM	mg/L	26	26	28	14	8	13	11	22	24	23	14	23	8
SODIUM	mg/L	93	95	104	39	25	54	44	83	96	92	45	92	32
POTASSIUM	mg/L	5.1	5.2	5.4	2.6	1.9	3.5	3.3	4.6	4.7	4.5	2.6	4.7	2.0
ALKALINITY, CARBONATE AS CO ₃	mg/L	0	0	0	0	0	0	0	0	0	0	0	0	4
ALKALINITY, BICARBONATE AS HCO ₃	mg/L	162	157	143	117	76	118	99	140	132	123	123	131	72
SULFATE	mg/L	225	228	242	85	16	42	40	186	206	194	89	197	21
CHLORIDE	mg/L	95	98	109	36	33	72	57	87	97	93	40	91	37
NITRATE	mg/L	1.8	1.4	0.5	2.4	0.3	<0.1	0.7	0.9	0.6	0.6	2.5	0.8	1.1
FLUORIDE	mg/L	0.3	0.3	0.3	0.3	<0.1	0.1	0.1	0.3	0.8	0.7	0.8	0.7	0.7
TOTAL DISSOLVED SOLIDS (TDS)	mg/L	611	615	638	290	147	274	237	525	563	534	309	547	169
TOTAL HARDNESS AS CaCO ₃	mg/L	293	291	285	149	66	117	103	241	244	231	151	243	68
TOTAL ALKALINITY AS CaCO ₃	mg/L	133	129	117	96	62	97	81	115	108	101	101	107	65
FREE CARBON DIOXIDE	mg/L	4.3	1.4	1.2	5.5	1.9	3.0	4.9	3.0	1.3	1.2	1.2	1.5	0.2
pH	pH	7.80	8.28	8.28	7.55	7.83	7.81	7.53	7.89	8.22	8.22	8.22	8.17	8.74
SPECIFIC CONDUCTANCE	µS/cm	1020	1030	1060	488	277	532	447	880	939	896	518	904	301
COLOR	CU	--	--	--	--	--	--	--	--	--	--	--	--	--
TURBIDITY	NTU	0.75	0.36	0.71	1.1	1.6	1.0	0.88	0.77	0.05	0.04	0.04	0.05	0.05
TEMPERATURE	°C	26	29	28	15	24	25	18	27	25	26	21	28	25
BROMIDE	mg/L	0.09	0.07	0.10	0.11	0.10	0.23	0.18	0.11	--	--	--	--	--
TOTAL ORGANIC CARBON	mg/L	3.22	3.59	3.55	2.97	3.41	4.36	3.22	3.44	--	--	--	--	--
SATURATION INDEX	--	--	--	--	--	--	--	--	--	0.62	0.59	0.40	0.63	0.43
STATE PROJECT WATER	%	0	0	0	100	100	100	100	21	23	27	100	23	100