

The Metropolitan Water District of Southern California

GENERAL MINERAL AND PHYSICAL ANALYSIS OF METROPOLITAN'S WATER SUPPLIES

TABLE D

December 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	8.2	8.2	7.8	14.3	12.0	4.9	8.1	9.4	11.3	9.0	14.0	9.1	11.7
CALCIUM	mg/L	79	79	72	36	20	28	23	46	29	58	36	46	21
MAGNESIUM	mg/L	28	28	28	12	11	13	11	18	14	23	12	18	11
SODIUM	mg/L	114	115	112	43	42	61	45	74	60	97	48	79	48
POTASSIUM	mg/L	5.4	5.4	5.2	2.5	3.2	3.8	3.3	4.1	3.5	4.7	2.5	4.1	3.1
ALKALINITY, CARBONATE AS CO ₃	mg/L	0	0	0	0	0	0	0	0	0	2	2	1	2
ALKALINITY, BICARBONATE AS HCO ₃	mg/L	163	161	152	109	87	126	95	126	100	126	110	122	78
SULFATE	mg/L	253	251	240	85	33	43	42	125	82	202	89	139	47
CHLORIDE	mg/L	112	113	112	39	55	76	60	80	70	102	43	88	60
NITRATE	mg/L	1.7	1.4	0.5	2.3	3.2	0.4	1.1	1.3	3.0	1.6	2.4	1.4	3.5
FLUORIDE	mg/L	0.4	0.4	0.4	0.3	<0.1	0.1	0.1	0.2	0.7	0.7	0.8	0.7	0.7
TOTAL DISSOLVED SOLIDS (TDS)	mg/L	683	682	654	289	223	293	241	421	324	563	305	447	247
TOTAL HARDNESS AS CaCO ₃	mg/L	317	312	296	137	92	125	104	187	130	244	139	200	95
TOTAL ALKALINITY AS CaCO ₃	mg/L	134	132	125	89	71	103	78	103	82	107	94	102	68
FREE CARBON DIOXIDE	mg/L	2.2	2.0	1.9	2.8	2.1	3.0	4.7	2.3	0.4	0.9	0.6	0.8	0.3
pH	pH	8.10	8.12	8.12	7.81	7.84	7.84	7.53	7.95	8.57	8.39	8.52	8.39	8.66
SPECIFIC CONDUCTANCE	µS/cm	1100	1100	1050	464	396	531	438	705	549	912	500	742	431
COLOR	CU	--	--	--	--	--	--	--	--	--	--	--	--	--
TURBIDITY	NTU	1.6	0.31	0.80	2.5	1.2	1.5	0.31	0.94	0.05	0.03	0.04	0.05	0.05
TEMPERATURE	°C	15	15	18	15	13	15	17	16	15	17	17	18	16
BROMIDE	mg/L	0.10	0.07	0.10	0.12	0.16	0.24	0.18	0.13	--	--	--	--	--
TOTAL ORGANIC CARBON	mg/L	3.20	3.06	3.06	3.16	4.00	4.22	2.97	3.55	--	--	--	--	--
SATURATION INDEX	--	--	--	--	--	--	--	--	--	0.46	0.68	0.60	0.58	0.36
STATE PROJECT WATER	%	0	0	0	100	100	100	100	53	85	32	100	54	100