

The Metropolitan Water District of Southern California

GENERAL MINERAL AND PHYSICAL ANALYSIS OF METROPOLITAN'S WATER SUPPLIES

TABLE D

May 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	7.0	6.8	7.8	16.5	9.8	4.0	6.0	6.7	9.1	9.1	16.8	5.5	8.9
CALCIUM	mg/L	79	77	72	39	16	28	26	68	22	24	39	64	15
MAGNESIUM	mg/L	28	28	27	11	6	13	13	26	9	9	11	24	6
SODIUM	mg/L	102	102	96	58	21	61	53	93	39	41	66	99	29
POTASSIUM	mg/L	5.1	5.2	4.8	2.4	2.5	3.7	3.5	4.9	2.4	2.5	2.4	4.5	2.2
ALKALINITY, CARBONATE AS CO <sub>3</sub>	mg/L	0	0	0	0	0	0	0	0	0	1	0	0	2
ALKALINITY, BICARBONATE AS HCO <sub>3</sub>	mg/L	165	161	157	112	65	122	102	149	77	74	111	143	54
SULFATE	mg/L	235	236	219	87	24	44	46	211	59	66	100	205	32
CHLORIDE	mg/L	106	108	102	53	20	77	68	98	34	37	56	98	28
NITRATE	mg/L	2.1	1.9	0.9	4.7	1.5	0.6	0.5	1.0	1.6	1.6	4.7	1.0	1.6
FLUORIDE	mg/L	0.3	0.3	0.3	0.3	<0.1	0.1	0.1	0.3	0.7	0.7	0.7	0.7	0.7
TOTAL DISSOLVED SOLIDS (TDS)	mg/L	647	646	608	329	134	292	267	583	215	230	352	574	153
TOTAL HARDNESS AS CaCO <sub>3</sub>	mg/L	310	307	291	139	63	124	115	277	90	97	139	258	63
TOTAL ALKALINITY AS CaCO <sub>3</sub>	mg/L	135	132	129	92	53	100	84	122	63	63	91	117	48
FREE CARBON DIOXIDE	mg/L	1.6	1.1	2.6	2.8	1.1	2.2	1.4	1.9	0.4	0.4	1.1	1.5	0.2
pH	pH	8.23	8.38	8.00	7.83	7.99	7.97	8.09	8.12	8.54	8.48	8.23	8.20	8.68
SPECIFIC CONDUCTANCE	µS/cm	1050	1050	1000	546	230	542	491	971	371	395	586	944	269
COLOR	CU	--	--	--	--	--	--	--	--	--	--	--	--	--
TURBIDITY	NTU	0.66	0.24	0.39	4.3	3.7	0.82	0.44	0.55	0.06	0.04	0.04	0.05	0.04
TEMPERATURE	°C	18	21	16	11	18	14	15	18	19	19	16	23	21
BROMIDE	mg/L	0.09	0.07	0.08	0.19	0.06	0.25	0.21	0.08	--	--	--	--	--
TOTAL ORGANIC CARBON	mg/L	2.80	2.82	2.82	3.04	4.36	4.20	2.81	3.09	--	--	--	--	--
SATURATION INDEX	--	--	--	--	--	--	--	--	--	0.28	0.26	0.28	0.63	0.20
STATE PROJECT WATER	%	0	0	0	100	100	100	100	17	87	86	100	21	100