

The Metropolitan Water District of Southern California

GENERAL MINERAL AND PHYSICAL ANALYSIS OF METROPOLITAN'S WATER SUPPLIES

TABLE D

April 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	6.7	7.8	17.1	12.2	3.4	5.6	7.3	12.0	11.6	17.0	7.4	11.5
CALCIUM	mg/L	77	76	71	38	22	29	26	73	20	25	39	72	20
MAGNESIUM	mg/L	27	28	27	10	8	14	13	27	8	10	10	27	8
SODIUM	mg/L	100	101	95	57	38	63	54	98	39	47	68	103	39
POTASSIUM	mg/L	5.1	5.1	4.7	2.6	2.3	3.6	3.7	5.0	2.6	2.6	2.4	4.8	2.5
ALKALINITY, CARBONATE AS CO ₃	mg/L	0	1	0	0	0	0	0	2	0	1	0	0	0
ALKALINITY, BICARBONATE AS HCO ₃	mg/L	163	157	160	110	83	129	105	154	79	78	104	152	70
SULFATE	mg/L	233	237	219	87	44	45	49	229	51	70	112	236	50
CHLORIDE	mg/L	107	108	102	55	41	85	73	106	34	42	58	110	38
NITRATE	mg/L	2.0	1.7	0.9	4.6	3.2	0.4	0.5	1.1	3.5	3.3	4.6	1.2	3.4
FLUORIDE	mg/L	0.3	0.3	0.3	0.3	0.1	0.1	0.1	0.3	0.6	0.7	0.8	0.7	0.7
TOTAL DISSOLVED SOLIDS (TDS)	mg/L	640	643	608	327	212	308	277	626	210	252	364	638	208
TOTAL HARDNESS AS CaCO ₃	mg/L	311	307	290	136	89	129	118	296	81	99	138	291	80
TOTAL ALKALINITY AS CaCO ₃	mg/L	134	131	131	90	68	106	86	130	65	66	85	125	57
FREE CARBON DIOXIDE	mg/L	1.6	1.1	2.1	2.4	1.7	1.4	1.6	1.1	0.4	0.4	1.0	1.7	0.4
pH	pH	8.22	8.38	8.11	7.89	7.91	8.18	8.04	8.38	8.55	8.51	8.24	8.17	8.49
SPECIFIC CONDUCTANCE	µS/cm	1050	1040	995	546	366	573	512	1020	357	424	604	1040	357
COLOR	CU	3	3	3	10	15	5	2	5	1	1	1	1	1
TURBIDITY	NTU	0.64	0.53	0.46	8.8	9.2	1.7	0.28	0.46	0.06	0.05	0.04	0.05	0.05
TEMPERATURE	°C	15	16	16	11	11	12	14	12	16	16	15	19	18
BROMIDE	mg/L	0.09	0.06	0.08	0.20	0.12	0.27	0.23	0.07	--	--	--	--	--
TOTAL ORGANIC CARBON	mg/L	2.90	2.95	2.76	2.80	4.78	4.02	2.60	3.08	--	--	--	--	--
SATURATION INDEX	--	--	--	--	--	--	--	--	--	0.21	0.25	0.19	0.62	0.13
STATE PROJECT WATER	%	0	0	0	100	100	100	100	6	100	94	100	7	100