

The Metropolitan Water District of Southern California

GENERAL MINERAL AND PHYSICAL ANALYSIS OF METROPOLITAN'S WATER SUPPLIES

TABLE D

May 2019

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	7.4	7.4	8.5	12.0	7.8	3.6	9.4	5.6	8.1	8.2	12.1	6.5	8.2
CALCIUM	mg/L	74	71	70	25	16	23	24	24	24	23	26	31	17
MAGNESIUM	mg/L	25	25	26	12	10	13	12	12	13	12	12	13	11
SODIUM	mg/L	89	91	94	46	42	59	51	48	62	59	54	62	54
POTASSIUM	mg/L	4.4	4.5	4.6	2.6	2.6	3.3	3.3	2.8	3.0	2.9	2.7	3.2	2.7
CARBONATE	mg/L	0	0	0	0	0	0	0	0	1	2	0	0	2
BICARBONATE	mg/L	162	157	152	95	76	99	94	89	78	73	98	92	71
SULFATE	mg/L	209	212	220	52	31	41	47	57	69	64	55	83	42
CHLORIDE	mg/L	83	85	89	60	59	80	67	59	73	69	63	70	71
NITRATE	mg/L	1.5	1.3	0.9	2.0	1.0	0.3	1.2	0.7	1.3	1.3	2.1	0.9	1.7
FLUORIDE	mg/L	0.3	0.3	0.3	0.2	<0.1	0.1	0.1	0.1	0.7	0.7	0.7	0.7	0.7
TOTAL DISSOLVED SOLIDS (TDS)	mg/L	575	576	589	259	207	273	262	254	294	279	277	316	246
TOTAL HARDNESS AS CaCO ₃	mg/L	278	275	279	113	82	107	107	110	113	110	114	134	88
TOTAL ALKALINITY AS CaCO ₃	mg/L	133	129	125	78	62	81	77	73	66	64	80	75	62
FREE CARBON DIOXIDE	mg/L	2.2	1.6	3.3	2.9	0.8	2.9	3.2	1.0	0.4	0.4	0.8	0.9	0.3
pH	pH	8.09	8.21	7.89	7.74	8.20	7.76	7.69	8.17	8.48	8.53	8.30	8.24	8.63
SPECIFIC CONDUCTANCE	µS/cm	930	937	959	460	386	515	481	466	532	510	490	555	455
COLOR	CU	--	--	--	--	--	--	--	--	--	--	--	--	--
TURBIDITY	NTU	0.37	0.19	1.1	1.6	1.1	0.78	0.28	0.81	0.05	0.04	0.04	0.07	0.05
TEMPERATURE	°C	20	20	16	13	18	15	14	20	18	21	18	20	20
BROMIDE	mg/L	0.08	0.10	0.08	0.18	0.18	0.25	0.21	0.15	--	--	--	--	--
TOTAL ORGANIC CARBON	mg/L	2.82	2.78	2.86	2.88	3.58	3.58	2.78	3.58	--	--	--	--	--
SATURATION INDEX	--	--	--	--	--	--	--	--	--	0.23	0.33	0.22	0.23	0.34
STATE PROJECT WATER	%	0	0	0	100	100	100	100	77	84	88	100	76	100