

The Metropolitan Water District of Southern California

GENERAL MINERAL AND PHYSICAL ANALYSIS OF METROPOLITAN'S WATER SUPPLIES

TABLE D

December 2018

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	8.1	7.7	8.6	11.9	9.4	7.9	9.0	8.8	8.7	8.5	11.6	8.4	9.1
CALCIUM	mg/L	69	70	70	23	17	25	24	58	63	66	23	61	16
MAGNESIUM	mg/L	26	26	26	11	13	13	12	23	24	25	10	24	13
SODIUM	mg/L	92	95	98	43	66	64	54	86	91	95	47	100	72
POTASSIUM	mg/L	4.5	4.7	4.7	2.6	3.3	3.5	3.4	4.2	4.4	4.6	2.5	4.4	3.3
CARBONATE	mg/L	0	0	0	0	0	0	0	0	0	0	0	0	1
BICARBONATE	mg/L	159	159	157	89	88	109	100	144	137	133	94	129	81
SULFATE	mg/L	217	226	227	40	24	43	51	174	202	210	38	185	31
CHLORIDE	mg/L	86	90	91	56	102	86	69	90	96	94	55	97	102
NITRATE	mg/L	1.0	0.9	0.7	1.6	1.4	0.4	0.5	0.6	0.8	0.8	1.7	0.8	2.1
FLUORIDE	mg/L	0.3	0.3	0.3	0.1	<0.1	0.1	0.1	0.2	0.7	0.8	0.6	0.7	0.7
TOTAL DISSOLVED SOLIDS (TDS)	mg/L	583	600	605	234	280	297	273	517	559	571	236	546	291
TOTAL HARDNESS AS CaCO ₃	mg/L	291	279	279	103	95	117	114	243	263	265	100	248	95
TOTAL ALKALINITY AS CaCO ₃	mg/L	130	130	129	73	72	89	82	118	112	109	77	106	68
FREE CARBON DIOXIDE	mg/L	2.0	1.5	1.7	2.5	2.2	2.5	2.2	1.6	1.9	1.7	0.7	1.7	0.4
pH	pH	8.13	8.24	8.19	7.77	7.83	7.86	7.87	8.17	8.07	8.12	8.35	8.09	8.55
SPECIFIC CONDUCTANCE	µS/cm	976	967	950	424	531	551	507	847	932	945	458	913	556
COLOR	CU	--	--	--	--	--	--	--	--	--	--	--	--	--
TURBIDITY	NTU	0.65	0.29	0.57	1.1	0.49	1.0	0.25	0.95	0.05	0.04	0.04	0.06	0.05
TEMPERATURE	°C	14	15	18	17	13	15	15	17	16	18	17	16	15
BROMIDE	mg/L	0.07	0.05	0.07	0.17	0.34	0.28	0.21	0.12	--	--	--	--	--
TOTAL ORGANIC CARBON	mg/L	3.10	3.06	2.90	2.87	2.74	3.68	3.00	2.98	--	--	--	--	--
SATURATION INDEX	--	--	--	--	--	--	--	--	--	0.41	0.47	0.24	0.40	0.18
STATE PROJECT WATER	%	0	0	0	100	100	100	100	22	17	11	100	20	100