

The Metropolitan Water District of Southern California

GENERAL MINERAL AND PHYSICAL ANALYSIS OF METROPOLITAN'S WATER SUPPLIES

TABLE D

December 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	8.4	7.3	8.5	11.2	9.7	5.1	7.2	8.7	--	9.4	11.5	8.7	10.1
CALCIUM	mg/L	71	66	65	26	19	23	23	32	--	24	26	33	18
MAGNESIUM	mg/L	26	24	27	12	11	13	12	14	--	13	13	14	10
SODIUM	mg/L	90	84	96	44	47	59	51	55	--	57	49	61	47
POTASSIUM	mg/L	4.5	4.4	4.8	2.7	2.8	3.4	3.4	3.2	--	2.9	2.8	3.3	2.5
CARBONATE	mg/L	0	0	0	0	0	0	0	0	--	1	0	0	1
BICARBONATE	mg/L	154	149	142	93	87	104	93	107	--	87	96	100	82
SULFATE	mg/L	216	204	220	53	29	41	48	76	--	62	57	91	36
CHLORIDE	mg/L	88	83	93	56	67	83	68	67	--	69	59	74	63
NITRATE	mg/L	0.9	0.8	0.2	1.4	0.8	0.3	0.6	0.6	--	1.3	1.5	0.8	2.1
FLUORIDE	mg/L	0.3	0.3	0.3	0.2	<0.1	0.1	0.1	0.1	--	0.8	0.7	0.6	0.8
TOTAL DISSOLVED SOLIDS (TDS)	mg/L	582	548	586	253	230	280	260	310	--	284	268	336	232
TOTAL HARDNESS AS CaCO ₃	mg/L	276	259	264	111	91	110	107	137	--	109	114	138	87
TOTAL ALKALINITY AS CaCO ₃	mg/L	126	122	116	76	71	85	76	88	--	73	79	82	69
FREE CARBON DIOXIDE	mg/L	2.1	1.6	1.9	2.4	1.8	2.3	2.2	2.2	--	0.5	0.6	1.3	0.4
pH	pH	8.08	8.18	8.09	7.81	7.91	7.88	7.85	7.90	--	8.47	8.40	8.11	8.51
SPECIFIC CONDUCTANCE	µS/cm	946	905	960	438	424	528	482	558	--	509	471	588	420
COLOR	CU	--	--	--	--	--	--	--	--	--	--	--	--	--
TURBIDITY	NTU	0.57	1.2	0.82	1.0	0.92	0.68	0.17	0.78	--	0.04	0.05	0.07	0.06
TEMPERATURE	°C	15	15	18	15	13	15	16	16	--	17	16	16	14
BROMIDE	mg/L	0.07	0.06	0.09	0.17	0.20	0.26	0.21	0.16	--	--	--	--	--
TOTAL ORGANIC CARBON	mg/L	3.03	2.78	2.92	2.82	3.24	3.50	2.88	2.89	--	--	--	--	--
SATURATION INDEX	--	--	--	--	--	--	--	--	--	--	0.31	0.28	0.11	0.21
STATE PROJECT WATER	%	0	0	0	100	100	100	100	71	--	89	100	71	100

* Not reported; sampling error.