

The Metropolitan Water District of Southern California

GENERAL MINERAL AND PHYSICAL ANALYSIS OF METROPOLITAN'S WATER SUPPLIES

TABLE D

August 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	8.3	8.1	7.7	12.0	10.5	5.9	9.1	7.4	9.6	9.5	12.1	7.9	9.3
CALCIUM	mg/L	71	68	69	27	12	22	26	29	24	32	27	31	14
MAGNESIUM	mg/L	25	25	26	12	6	12	12	13	11	13	12	13	8
SODIUM	mg/L	86	85	92	48	21	55	51	49	48	55	53	59	40
POTASSIUM	mg/L	4.4	4.4	4.6	2.8	1.7	3.2	3.4	2.9	2.4	2.8	2.8	3.2	2.2
CARBONATE	mg/L	0	1	0	0	0	0	0	0	1	0	0	0	2
BICARBONATE	mg/L	160	154	149	95	60	95	95	98	78	90	102	98	68
SULFATE	mg/L	215	212	224	57	16	39	48	68	68	98	61	90	33
CHLORIDE	mg/L	85	86	93	62	28	79	69	61	51	56	65	68	48
NITRATE	mg/L	1.3	1.1	0.7	2.2	1.1	0.9	1.5	0.5	1.2	1.1	2.3	0.6	1.5
FLUORIDE	mg/L	0.3	0.3	0.3	0.2	<0.1	0.1	0.1	0.1	0.7	0.9	0.7	0.7	0.7
TOTAL DISSOLVED SOLIDS (TDS)	mg/L	576	568	592	271	126	265	268	280	256	313	287	322	193
TOTAL HARDNESS AS CaCO <sub>3</sub>	mg/L	274	268	270	118	56	103	109	119	104	134	118	131	70
TOTAL ALKALINITY AS CaCO <sub>3</sub>	mg/L	131	128	122	78	49	78	78	80	66	74	84	80	60
FREE CARBON DIOXIDE	mg/L	2.6	1.2	3.1	4.2	1.7	5.1	4.4	1.1	0.6	0.8	0.8	0.9	0.3
pH	pH	8.01	8.34	7.90	7.58	7.78	7.49	7.56	8.17	8.33	8.25	8.33	8.24	8.66
SPECIFIC CONDUCTANCE	µS/cm	926	918	955	487	227	497	477	496	454	546	511	580	354
COLOR	CU	--	--	--	--	--	--	--	--	--	--	--	--	--
TURBIDITY	NTU	0.72	0.25	1.0	0.70	2.2	0.59	0.24	0.95	0.04	0.04	0.04	0.07	0.04
TEMPERATURE	°C	25	28	20	14	25	24	15	26	24	27	22	28	28
BROMIDE	mg/L	0.08	0.07	0.09	0.19	0.08	0.24	0.21	0.15	--	--	--	--	--
TOTAL ORGANIC CARBON	mg/L	3.18	3.13	3.25	2.95	3.04	3.85	2.63	3.53	--	--	--	--	--
SATURATION INDEX	--	--	--	--	--	--	--	--	--	0.22	0.34	0.32	0.35	0.41
STATE PROJECT WATER	%	0	0	0	100	100	100	100	68	77	65	100	66	100