

The Metropolitan Water District of Southern California

GENERAL MINERAL AND PHYSICAL ANALYSIS OF METROPOLITAN'S WATER SUPPLIES

TABLE D

November 2017

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	8.0	8.2	7.3	12.1	9.3	8.1	6.2	7.6	9.8	9.4	12.3	8.2	10.1
CALCIUM	mg/L	73	74	65	24	15	25	23	34	28	31	25	34	15
MAGNESIUM	mg/L	26	27	27	11	9	12	13	14	13	14	11	14	9
SODIUM	mg/L	98	98	100	45	36	66	61	56	54	61	54	63	44
POTASSIUM	mg/L	4.7	4.9	4.9	2.8	2.3	3.3	3.5	3.1	2.9	3.0	2.8	3.2	2.3
CARBONATE	mg/L	0	1	0	0	0	0	7	0	2	0	1	0	2
BICARBONATE	mg/L	151	149	133	88	67	102	77	104	79	87	94	98	68
SULFATE	mg/L	240	236	236	48	21	50	58	86	80	96	54	90	28
CHLORIDE	mg/L	92	91	95	60	51	86	76	63	63	66	64	73	53
NITRATE	mg/L	1.0	0.9	0.2	1.8	1.8	<0.1	<0.1	0.9	1.8	1.6	1.9	1.2	2.8
FLUORIDE	mg/L	0.3	0.3	0.3	0.1	<0.1	0.1	0.1	0.1	0.7	0.7	0.7	0.7	0.8
TOTAL DISSOLVED SOLIDS (TDS)	mg/L	618	616	602	249	179	302	286	317	295	326	274	336	201
TOTAL HARDNESS AS CaCO ₃	mg/L	290	285	268	104	75	113	110	129	124	137	104	142	76
TOTAL ALKALINITY AS CaCO ₃	mg/L	124	124	109	72	55	84	75	85	69	71	79	80	60
FREE CARBON DIOXIDE	mg/L	1.5	1.1	1.4	6.2	1.4	1.8	0.2	1.6	0.5	0.8	0.8	1.1	0.3
pH	pH	8.23	8.35	8.20	7.37	7.89	7.97	8.98	8.03	8.44	8.24	8.31	8.18	8.64
SPECIFIC CONDUCTANCE	µS/cm	1020	992	996	464	331	568	530	565	546	593	503	613	367
COLOR	CU	--	--	--	--	--	--	--	--	--	--	--	--	--
TURBIDITY	NTU	1.3	0.61	1.2	1.7	0.96	3.3	0.52	0.78	0.06	0.05	0.04	0.07	0.05
TEMPERATURE	°C	20	20	22	17	17	21	19	20	19	22	20	22	20
BROMIDE	mg/L	0.08	0.06	0.09	0.17	0.16	0.29	0.23	0.14	--	--	--	--	--
TOTAL ORGANIC CARBON	mg/L	3.14	3.12	3.16	3.18	3.30	4.05	3.32	3.05	--	--	--	--	--
SATURATION INDEX	--	--	--	--	--	--	--	--	--	0.31	0.22	0.20	0.23	0.26
STATE PROJECT WATER	%	0	0	0	100	100	100	100	60	77	71	100	66	100