

The Metropolitan Water District of Southern California

GENERAL MINERAL AND PHYSICAL ANALYSIS OF METROPOLITAN'S WATER SUPPLIES

TABLE D

April 2016

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	7.3	7.2	7.9	15.2	7.6	9.1	8.7	6.5	7.8	7.9	14.6	6.4	8.0
CALCIUM	mg/L	77	77	76	34	28	30	31	72	79	75	36	74	27
MAGNESIUM	mg/L	25	25	26	11	10	13	14	24	27	27	12	25	10
SODIUM	mg/L	96	94	99	82	74	85	63	92	104	99	94	104	75
POTASSIUM	mg/L	4.7	4.7	4.9	2.8	2.8	3.4	3.6	4.7	5.0	5.0	2.9	4.8	2.8
CARBONATE	mg/L	0	0	0	0	0	0	0	0	0	0	0	0	0
BICARBONATE	mg/L	166	165	160	110	105	117	112	157	151	151	116	152	95
SULFATE	mg/L	244	244	251	86	74	76	71	231	256	257	104	238	72
CHLORIDE	mg/L	92	93	97	97	83	104	79	93	103	102	97	102	78
NITRATE	mg/L	1.9	1.8	1.0	3.9	3.7	0.4	1.2	1.2	1.2	1.2	4.0	1.3	4.7
FLUORIDE	mg/L	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.3	0.7	0.8	0.7	0.6	0.7
TOTAL DISSOLVED SOLIDS (TDS)	mg/L	631	629	643	387	336	380	328	603	659	650	423	632	326
TOTAL HARDNESS AS CaCO ₃	mg/L	300	302	300	132	114	132	135	278	306	300	132	294	112
TOTAL ALKALINITY AS CaCO ₃	mg/L	136	135	131	90	86	96	92	129	124	124	95	125	78
FREE CARBON DIOXIDE	mg/L	2.3	1.6	2.5	4.9	0.8	1.2	3.4	1.5	1.9	2.0	1.0	1.8	0.8
pH	pH	8.08	8.23	8.02	7.57	8.36	8.20	7.74	8.23	8.12	8.10	8.30	8.15	8.30
SPECIFIC CONDUCTANCE	µS/cm	1020	1020	1050	680	605	685	594	993	1050	1050	721	1030	570
COLOR	CU	4	2	2	4	12	10	4	3	1	1	2	2	2
TURBIDITY	NTU	0.43	0.38	0.78	1.9	1.0	1.0	0.59	0.58	0.05	0.04	0.04	0.05	0.06
TEMPERATURE	°C	17	19	16	13	14	17	15	18	16	18	18	21	19
BROMIDE	mg/L	0.08	0.06	0.07	0.34	0.30	0.37	0.25	0.10	--	--	--	--	--
TOTAL ORGANIC CARBON	mg/L	2.99	2.92	3.08	2.62	3.64	3.98	2.84	3.20	--	--	--	--	--
SATURATION INDEX	--	--	--	--	--	--	--	--	--	0.54	0.55	0.35	0.66	0.22
STATE PROJECT WATER	%	0	0	0	100	100	100	100	7	0	2	100	3	100