

The Metropolitan Water District of Southern California

GENERAL MINERAL AND PHYSICAL ANALYSIS OF METROPOLITAN'S WATER SUPPLIES

TABLE D

February 2015

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	7.9	7.8	8.4	14.8	11.3	11.1	9.5	8.0	8.4	8.3	14.9	8.1	11.0
CALCIUM	mg/L	76	76	75	37	30	29	29	76	75	77	36	76	30
MAGNESIUM	mg/L	26	27	27	11	8	13	14	27	27	27	10	27	13
SODIUM	mg/L	93	92	92	80	75	72	58	94	99	101	88	100	82
POTASSIUM	mg/L	4.7	4.7	4.7	2.7	2.4	3.3	3.6	4.8	4.7	4.8	2.6	4.7	3.2
CARBONATE	mg/L	0	0	0	0	0	0	0	0	0	0	0	0	0
BICARBONATE	mg/L	163	161	160	111	98	107	104	160	160	156	106	159	110
SULFATE	mg/L	239	240	240	83	75	63	67	239	246	250	107	243	70
CHLORIDE	mg/L	90	91	91	88	84	96	74	91	94	95	86	99	101
NITRATE	mg/L	1.4	1.3	1.1	3.6	3.4	0.4	0.1	1.0	1.1	1.2	3.7	1.4	1.1
FLUORIDE	mg/L	0.3	0.3	0.3	0.2	0.2	0.1	0.1	0.3	0.9	0.9	0.8	0.8	0.8
TOTAL DISSOLVED SOLIDS (TDS)	mg/L	620	621	620	376	338	341	307	621	636	643	402	639	367
TOTAL HARDNESS AS CaCO <sub>3</sub>	mg/L	302	300	298	136	110	130	130	298	294	300	132	297	126
TOTAL ALKALINITY AS CaCO <sub>3</sub>	mg/L	134	132	131	91	80	88	85	131	131	128	87	130	90
FREE CARBON DIOXIDE	mg/L	1.4	1.4	1.6	5.6	1.6	2.6	3.8	1.4	2.3	2.0	1.2	2.0	1.0
pH	pH	8.28	8.29	8.22	7.52	8.02	7.83	7.66	8.27	8.06	8.11	8.18	8.11	8.27
SPECIFIC CONDUCTANCE	µS/cm	1010	1010	1010	656	596	622	551	1000	1020	1020	684	1020	648
COLOR	CU	--	--	--	--	--	--	--	--	--	--	--	--	--
TURBIDITY	NTU	1.7	0.32	1.6	1.1	0.37	1.7	0.25	0.47	0.05	0.04	0.04	0.05	0.05
TEMPERATURE	°C	13	13	15	13	12	13	15	15	15	17	17	18	16
BROMIDE	mg/L	0.08	0.07	0.07	0.31	0.32	0.33	0.23	0.08	--	--	--	--	--
TOTAL ORGANIC CARBON	mg/L	3.12	3.06	3.12	2.14	2.32	3.52	2.62	3.09	--	--	--	--	--
SATURATION INDEX	--	--	--	--	--	--	--	--	--	0.49	0.55	0.13	0.57	0.20
STATE PROJECT WATER	%	0	0	0	100	100	100	100	0	0	0	100	0	100