

The Metropolitan Water District of Southern California

GENERAL MINERAL AND PHYSICAL ANALYSIS OF METROPOLITAN'S WATER SUPPLIES

TABLE D

July 2014

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	7.0	7.0	7.4	11.4	10.4	7.0	9.5	8.8	7.6	7.7	11.3	9.0	10.9
CALCIUM	mg/L	73	72	73	28	28	29	30	41	74	73	28	43	27
MAGNESIUM	mg/L	26	26	26	12	7	14	14	18	26	26	12	17	7
SODIUM	mg/L	87	88	89	66	66	67	55	67	92	93	70	72	73
POTASSIUM	mg/L	4.4	4.4	4.4	2.7	2.0	3.2	3.4	3.7	4.4	4.4	2.7	3.6	2.1
CARBONATE	mg/L	0	1	0	0	0	0	0	0	0	0	0	0	0
BICARBONATE	mg/L	163	161	161	104	92	113	102	122	155	151	107	121	95
SULFATE	mg/L	222	223	222	53	62	49	63	109	229	231	61	121	70
CHLORIDE	mg/L	81	83	83	85	68	89	71	75	89	89	85	84	74
NITRATE	mg/L	1.3	1.1	0.9	3.0	2.5	0.3	0.9	0.4	0.9	0.9	3.1	0.5	2.9
FLUORIDE	mg/L	0.3	0.3	0.3	0.1	0.2	0.1	0.1	0.2	0.8	0.9	0.8	0.8	0.9
TOTAL DISSOLVED SOLIDS (TDS)	mg/L	583	586	586	313	292	315	298	384	601	601	327	411	315
TOTAL HARDNESS AS CaCO ₃	mg/L	286	286	284	122	99	124	128	180	285	286	120	180	98
TOTAL ALKALINITY AS CaCO ₃	mg/L	134	134	132	85	75	93	84	100	127	124	88	99	78
FREE CARBON DIOXIDE	mg/L	2.1	1.2	1.3	5.5	1.3	2.1	8.4	2.3	2.1	2.1	1.1	1.6	0.8
pH	pH	8.12	8.37	8.31	7.50	8.06	7.96	7.31	7.95	8.08	8.08	8.21	8.09	8.31
SPECIFIC CONDUCTANCE	µS/cm	956	960	954	578	517	586	540	666	993	999	602	726	566
COLOR	CU	2	2	2	4	3	4	7	2	1	1	1	1	1
TURBIDITY	NTU	0.39	0.60	1.4	1.5	0.76	0.73	0.79	0.43	0.04	0.03	0.04	0.05	0.05
TEMPERATURE	°C	24	26	25	15	20	25	16	22	26	29	22	26	24
BROMIDE	mg/L	0.07	0.07	0.08	0.28	0.26	0.30	0.21	0.17	--	--	--	--	--
TOTAL ORGANIC CARBON	mg/L	2.96	2.92	2.94	2.26	2.11	3.74	2.25	2.80	--	--	--	--	--
SATURATION INDEX	--	--	--	--	--	--	--	--	--	0.64	0.68	0.24	0.36	0.28
STATE PROJECT WATER	%	0	0	0	100	100	100	100	58	0	0	100	55	100