

The Metropolitan Water District of Southern California

GENERAL MINERAL AND PHYSICAL ANALYSIS OF METROPOLITAN'S WATER SUPPLIES

TABLE D

April 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	7.6	7.4	7.7	11.2	9.2	8.1	9.0	7.7	7.9	8.1	11.2	8.0	8.1
CALCIUM	mg/L	73	74	71	26	27	27	29	68	74	70	26	70	26
MAGNESIUM	mg/L	25	25	25	12	9	13	14	24	25	25	12	25	13
SODIUM	mg/L	83	85	84	64	70	63	57	83	89	89	69	86	72
POTASSIUM	mg/L	4.3	4.3	4.4	2.8	2.4	3.1	3.4	4.3	4.4	4.4	2.7	4.3	3.1
CARBONATE	mg/L	0	0	0	0	0	0	0	0	0	0	0	0	0
BICARBONATE	mg/L	167	165	161	101	95	110	102	159	156	152	102	155	105
SULFATE	mg/L	219	220	220	50	52	48	65	205	227	223	63	211	62
CHLORIDE	mg/L	78	82	82	85	88	88	72	81	86	87	85	90	94
NITRATE	mg/L	1.6	1.6	1.1	2.8	3.6	0.3	<0.1	1.1	1.2	1.2	2.8	1.3	0.9
FLUORIDE	mg/L	0.3	0.3	0.3	0.1	0.1	0.1	0.1	0.3	0.9	0.9	0.8	0.8	0.8
TOTAL DISSOLVED SOLIDS (TDS)	mg/L	575	582	576	304	309	306	300	554	593	585	324	574	332
TOTAL HARDNESS AS CaCO ₃	mg/L	289	286	282	117	104	121	126	270	284	282	114	276	120
TOTAL ALKALINITY AS CaCO ₃	mg/L	137	135	132	83	78	90	84	130	128	125	84	127	86
FREE CARBON DIOXIDE	mg/L	1.8	1.4	1.4	3.7	2.4	1.5	1.3	1.3	2.1	1.9	0.9	2.2	0.9
pH	pH	8.20	8.29	8.29	7.66	7.82	8.09	8.13	8.32	8.10	8.12	8.27	8.07	8.28
SPECIFIC CONDUCTANCE	µS/cm	924	935	922	565	557	562	534	905	964	964	588	947	618
COLOR	CU	5	2	2	7	4	7	3	4	1	1	1	1	1
TURBIDITY	NTU	0.20	0.36	0.87	2.7	0.52	1.4	0.22	0.72	0.04	0.04	0.04	0.05	0.07
TEMPERATURE	°C	17	17	17	13	12	15	15	19	18	20	17	21	19
BROMIDE	mg/L	0.07	0.06	0.07	0.27	0.31	0.28	0.22	0.08	--	--	--	--	--
TOTAL ORGANIC CARBON	mg/L	2.96	2.86	3.00	2.48	2.14	4.05	2.55	3.13	--	--	--	--	--
SATURATION INDEX	--	--	--	--	--	--	--	--	--	0.55	0.58	0.15	0.53	0.22
STATE PROJECT WATER	%	0	0	0	100	100	100	99	8	0	0	100	6	100