

The Metropolitan Water District of Southern California

GENERAL MINERAL AND PHYSICAL ANALYSIS OF METROPOLITAN'S WATER SUPPLIES

TABLE D

August 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	7.4	6.9	14.6	9.5	10.2	8.6	7.2	6.9	7.1	14.6	7.2	9.8
CALCIUM	mg/L	76	76	74	35	28	30	29	71	76	73	35	74	29
MAGNESIUM	mg/L	26	26	26	9	10	13	14	25	26	26	8	25	11
SODIUM	mg/L	96	93	96	77	72	76	61	93	111	112	90	112	79
POTASSIUM	mg/L	4.7	4.9	4.8	2.4	2.8	3.3	3.7	4.7	5.0	4.9	2.4	5.0	3.0
CARBONATE	mg/L	0	0	0	0	4	1	5	2	0	0	0	0	0
BICARBONATE	mg/L	166	160	159	111	100	110	101	150	151	149	109	149	102
SULFATE	mg/L	248	248	249	85	69	70	70	236	256	259	103	245	77
CHLORIDE	mg/L	93	95	95	79	82	99	78	95	100	100	80	104	92
NITRATE	mg/L	1.1	1.0	0.7	4.4	1.4	<0.1	<0.1	0.4	0.7	0.7	4.6	0.6	1.8
FLUORIDE	mg/L	0.3	0.3	0.3	0.2	0.2	0.2	0.1	0.3	0.8	0.8	0.7	0.6	0.7
TOTAL DISSOLVED SOLIDS (TDS)	mg/L	636	632	632	362	329	358	320	610	658	658	393	648	354
TOTAL HARDNESS AS CaCO ₃	mg/L	298	297	296	123	112	126	130	282	292	296	124	287	124
TOTAL ALKALINITY AS CaCO ₃	mg/L	136	131	130	91	88	92	91	127	124	122	89	122	84
FREE CARBON DIOXIDE	mg/L	3.1	1.2	1.4	3.4	0.4	0.7	0.4	0.9	2.1	2.1	1.3	1.8	1.2
pH	pH	7.95	8.33	8.28	7.74	8.65	8.41	8.65	8.46	8.08	8.08	8.15	8.14	8.17
SPECIFIC CONDUCTANCE	µS/cm	1020	1050	1040	634	600	659	583	1010	1070	1060	682	1050	650
COLOR	CU	--	--	--	--	--	--	--	--	--	--	--	--	--
TURBIDITY	NTU	0.60	0.80	0.88	3.0	1.3	0.90	0.60	0.48	0.05	0.04	0.04	0.05	0.06
TEMPERATURE	°C	25	28	27	20	22	26	20	29	26	27	26	30	25
BROMIDE	mg/L	0.09	0.07	0.10	0.29	0.29	0.35	0.23	0.09	--	--	--	--	--
TOTAL ORGANIC CARBON	mg/L	3.32	3.46	3.26	1.94	3.30	3.88	3.22	3.32	--	--	--	--	--
SATURATION INDEX	--	--	--	--	--	--	--	--	--	0.64	0.65	0.32	0.74	0.19
STATE PROJECT WATER	%	0	0	0	100	100	100	100	10	0	0	100	6	100