

The Metropolitan Water District of Southern California

GENERAL MINERAL AND PHYSICAL ANALYSIS OF METROPOLITAN'S WATER SUPPLIES

TABLE D

July 2012

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	8.4	7.8	7.6	13.2	13.2	12.7	10.6	8.8	7.5	7.8	12.8	9.4	11.6
CALCIUM	mg/L	70	69	68	23	22	24	29	50	62	58	23	47	21
MAGNESIUM	mg/L	24	25	25	11	11	12	13	19	24	22	11	19	11
SODIUM	mg/L	79	82	86	40	48	48	51	68	91	83	45	75	52
POTASSIUM	mg/L	4.3	4.3	4.5	2.3	2.5	2.7	3.2	3.7	4.4	4.0	2.3	3.7	2.5
CARBONATE	mg/L	0	2	2	0	0	0	0	2	0	0	0	1	0
BICARBONATE	mg/L	162	152	151	90	95	100	98	127	132	129	95	124	89
SULFATE	mg/L	218	224	225	42	39	41	67	147	214	185	45	142	43
CHLORIDE	mg/L	76	80	85	51	64	67	64	74	87	85	53	81	66
NITRATE	mg/L	1.3	1.0	1.0	2.2	2.1	<0.1	1.6	0.5	1.1	1.5	2.2	0.7	2.8
FLUORIDE	mg/L	0.3	0.3	0.3	0.1	<0.1	0.1	0.1	0.2	0.8	0.9	0.8	0.8	0.6
TOTAL DISSOLVED SOLIDS (TDS)	mg/L	562	571	580	230	249	258	289	437	558	512	243	442	255
TOTAL HARDNESS AS CaCO ₃	mg/L	280	278	278	102	101	108	125	205	253	236	102	197	98
TOTAL ALKALINITY AS CaCO ₃	mg/L	133	129	128	74	78	82	80	108	108	106	78	104	73
FREE CARBON DIOXIDE	mg/L	2.5	1.0	0.9	3.9	0.9	2.5	1.8	0.8	1.7	1.7	0.8	0.9	0.7
pH	pH	8.03	8.42	8.46	7.59	8.25	7.83	7.95	8.43	8.10	8.10	8.29	8.38	8.31
SPECIFIC CONDUCTANCE	µS/cm	918	926	946	382	456	475	520	738	920	829	437	749	459
COLOR	CU	4	2	2	5	7	7	5	4	1	1	1	1	1
TURBIDITY	NTU	0.67	0.28	0.41	0.61	1.1	2.0	0.55	0.45	0.05	0.05	0.04	0.06	0.06
TEMPERATURE	°C	25	26	25	14	22	22	17	23	25	22	22	27	26
BROMIDE	mg/L	0.06	0.04	0.06	0.15	0.20	0.22	0.18	0.12	--	--	--	--	--
TOTAL ORGANIC CARBON	mg/L	3.22	3.27	2.94	2.38	3.14	3.44	2.43	2.83	--	--	--	--	--
SATURATION INDEX	--	--	--	--	--	--	--	--	--	0.53	0.45	0.18	0.73	0.19
STATE PROJECT WATER	%	0	0	0	100	100	100	89	44	14	27	100	46	100