

The Metropolitan Water District of Southern California

GENERAL MINERAL AND PHYSICAL ANALYSIS OF METROPOLITAN'S WATER SUPPLIES

TABLE D

January 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	8.0	8.0	7.9	11.1	8.9	9.2	9.4	8.2	8.1	8.1	11.1	8.3	9.1
CALCIUM	mg/L	73	70	73	25	24	25	27	64	69	71	24	67	24
MAGNESIUM	mg/L	24	25	24	12	10	13	13	23	25	25	12	24	10
SODIUM	mg/L	82	83	81	62	70	60	54	77	89	88	64	88	76
POTASSIUM	mg/L	4.3	4.4	4.4	2.8	2.6	3.1	3.3	4.3	4.4	4.4	2.7	4.3	2.6
CARBONATE	mg/L	0	0	0	0	0	0	0	0	0	0	0	0	1
BICARBONATE	mg/L	166	165	159	101	96	111	101	154	152	144	102	150	93
SULFATE	mg/L	219	215	214	45	45	44	62	195	226	224	49	204	50
CHLORIDE	mg/L	81	81	80	82	94	85	71	79	85	84	83	88	98
NITRATE	mg/L	1.3	1.2	0.9	2.2	2.4	0.1	0.3	0.9	1.0	1.0	2.2	1.0	3.5
FLUORIDE	mg/L	0.3	0.3	0.3	0.1	0.1	0.1	0.1	0.3	0.8	0.9	0.8	0.8	0.8
TOTAL DISSOLVED SOLIDS (TDS)	mg/L	576	570	565	293	305	295	291	529	584	578	300	560	322
TOTAL HARDNESS AS CaCO ₃	mg/L	284	283	279	112	104	120	120	262	274	276	110	264	104
TOTAL ALKALINITY AS CaCO ₃	mg/L	136	135	130	83	79	91	83	126	125	118	84	123	78
FREE CARBON DIOXIDE	mg/L	2.2	1.4	1.6	1.5	1.5	1.4	4.3	1.5	2.1	1.9	0.9	2.0	0.5
pH	pH	8.10	8.28	8.23	8.05	8.02	8.11	7.59	8.24	8.08	8.10	8.29	8.09	8.47
SPECIFIC CONDUCTANCE	µS/cm	917	942	932	555	578	559	538	891	969	990	559	951	613
COLOR	CU	4	1	1	7	5	7	4	4	1	1	1	1	1
TURBIDITY	NTU	0.38	0.22	0.87	0.73	0.67	1.2	0.18	0.54	0.05	0.04	0.04	0.06	0.05
TEMPERATURE	°C	11	12	16	14	11	13	14	14	15	16	16	16	13
BROMIDE	mg/L	0.06	0.04	0.05	0.26	0.31	0.27	0.21	0.06	--	--	--	--	--
TOTAL ORGANIC CARBON	mg/L	3.10	2.98	2.96	2.45	2.61	3.41	2.43	3.05	--	--	--	--	--
SATURATION INDEX	--	--	--	--	--	--	--	--	--	0.47	0.48	0.18	0.47	0.25
STATE PROJECT WATER	%	0	0	0	100	100	100	97	10	0	0	100	10	100