

The Metropolitan Water District of Southern California

GENERAL MINERAL AND PHYSICAL ANALYSIS OF METROPOLITAN'S WATER SUPPLIES

TABLE D

January 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	8.1	10.2	8.5	12.4	11.0	13.2	9.5	10.9	10.1	9.7	12.4	10.0	11.9
CALCIUM	mg/L	72	67	66	24	17	23	28	26	20	30	24	21	22
MAGNESIUM	mg/L	26	24	26	11	9	11	13	12	10	14	11	12	11
SODIUM	mg/L	88	84	88	39	31	47	50	46	43	54	42	53	50
POTASSIUM	mg/L	4.5	4.6	4.6	2.4	1.9	2.6	3.2	2.8	2.2	2.6	2.4	2.5	2.6
CARBONATE	mg/L	0	0	0	0	0	0	0	0	1	0	0	0	1
BICARBONATE	mg/L	152	152	146	89	78	90	96	90	77	89	92	98	89
SULFATE	mg/L	224	204	215	47	26	38	67	56	43	86	50	49	44
CHLORIDE	mg/L	85	79	86	47	37	62	61	56	48	58	49	65	65
NITRATE	mg/L	1.2	0.8	0.8	1.5	2.4	0.2	1.2	1.1	2.5	2.0	1.5	1.1	0.6
FLUORIDE	mg/L	0.3	0.3	0.3	0.2	<0.1	0.1	0.1	0.1	0.9	0.9	0.8	0.9	0.6
TOTAL DISSOLVED SOLIDS (TDS)	mg/L	585	550	568	229	174	242	281	256	219	302	239	264	253
TOTAL HARDNESS AS CaCO ₃	mg/L	286	266	272	107	81	102	122	115	92	134	106	104	100
TOTAL ALKALINITY AS CaCO ₃	mg/L	125	125	120	73	64	74	79	74	65	73	75	80	75
FREE CARBON DIOXIDE	mg/L	1.5	2.5	3.5	1.6	2.1	3.0	2.4	1.2	0.4	0.8	0.7	0.8	0.5
pH	pH	8.24	8.01	7.84	7.96	7.79	7.70	7.83	8.10	8.50	8.25	8.31	8.29	8.49
SPECIFIC CONDUCTANCE	µS/cm	990	935	973	387	316	465	495	482	379	537	399	476	460
COLOR	CU	4	2	2	7	7	9	4	7	1	2	2	2	1
TURBIDITY	NTU	0.56	0.25	0.42	0.77	0.82	1.5	0.35	0.56	0.05	0.04	0.04	0.06	0.05
TEMPERATURE	°C	11	14	13	14	9	14	15	14	12	20	16	16	13
BROMIDE	mg/L	0.07	0.04	0.06	0.14	0.11	0.19	0.17	0.15	--	--	--	--	--
TOTAL ORGANIC CARBON	mg/L	2.99	2.72	2.92	2.50	2.68	3.74	2.56	2.70	--	--	--	--	--
SATURATION INDEX	--	--	--	--	--	--	--	--	--	0.14	0.19	0.13	0.10	0.22
STATE PROJECT WATER	%	0	0	0	100	100	100	68	81	95	75	100	76	100