

The Metropolitan Water District of Southern California

GENERAL MINERAL AND PHYSICAL ANALYSIS OF METROPOLITAN'S WATER SUPPLIES

TABLE D

December 2012

CONSTITUENTS	UNITS	SOURCE WATERS										TREATMENT PLANT EFFLUENTS				
		LAKE HAVASU	SAN JACINTO TUNNEL	LAKE MATHIEWS	CASTAIC LAKE	SILVERWOOD LAKE	LAKE PERRIS	DIAMOND VALLEY LAKE	LAKE SKINNER	WEY-MOUTH	DIEMER	JENSEN	SKINNER	MILLS		
SILICA	mg/L	8.7	9.2	8.1	13.2	10.5	11.1	9.8	11.1	8.7	8.6	12.3	11.7	11.5		
CALCIUM	mg/L	70	68	67	22	17	17	26	32	49	49	22	31	20		
MAGNESIUM	mg/L	25	25	26	12	13	13	13	15	21	22	12	14	13		
SODIUM	mg/L	83	83	87	52	61	62	53	57	82	83	56	63	64		
POTASSIUM	mg/L	4.3	4.3	4.5	2.7	3.0	3.0	3.1	3.3	4.0	4.0	2.6	3.4	3.0		
CARBONATE	mg/L	0	0	0	0	0	0	0	0	0	0	0	1	0		
BICARBONATE	mg/L	159	157	154	95	90	90	96	107	126	123	98	105	98		
SULFATE	mg/L	221	214	222	41	25	25	62	80	159	161	44	79	36		
CHLORIDE	mg/L	79	78	85	72	94	94	68	70	94	94	73	78	91		
NITRATE	mg/L	1.0	0.9	0.4	1.6	1.5	1.9	1.0	0.8	1.1	1.0	1.7	1.0	3.2		
FLUORIDE	mg/L	0.3	0.3	0.3	0.1	<0.1	<0.1	0.1	0.2	0.9	0.9	0.8	0.9	0.9		
TOTAL DISSOLVED SOLIDS (TDS)	mg/L	572	561	577	264	270	272	284	323	483	485	273	336	292		
TOTAL HARDNESS AS CaCO ₃	mg/L	280	272	274	108	98	98	120	140	212	212	106	140	98		
TOTAL ALKALINITY AS CaCO ₃	mg/L	130	129	126	78	74	74	79	88	103	101	80	88	80		
FREE CARBON DIOXIDE	mg/L	1.5	1.3	1.5	1.9	1.5	2.0	2.6	2.1	1.7	1.6	0.8	0.8	0.6		
pH	pH	8.26	8.30	8.24	7.92	7.99	7.88	7.79	7.94	8.09	8.10	8.32	8.35	8.46		
SPECIFIC CONDUCTANCE	µS/cm	928	914	912	490	515	517	521	565	808	802	489	599	529		
COLOR	CU	--	--	--	--	--	--	--	--	--	--	--	--	--		
TURBIDITY	NTU	0.68	0.30	0.84	0.72	0.78	0.37	0.35	0.45	0.04	0.03	0.04	0.06	0.06		
TEMPERATURE	°C	16	18	18	16	14	15	17	18	16	18	17	18	16		
BROMIDE	mg/L	0.06	0.03	0.06	0.23	0.30	0.31	0.20	0.17	--	--	--	--	--		
TOTAL ORGANIC CARBON	mg/L	2.95	2.81	2.77	2.44	2.46	2.36	2.43	2.75	--	--	--	--	--		
SATURATION INDEX	--	--	--	--	--	--	--	--	--	0.29	0.32	0.16	0.35	0.22		
STATE PROJECT WATER	%	0	0	0	100	100	100	95	78	40	39	100	78	100		