

The Metropolitan Water District of Southern California

GENERAL MINERAL AND PHYSICAL ANALYSIS OF METROPOLITAN'S WATER SUPPLIES

TABLE D

January 2013

CONSTITUENTS	UNITS	SOURCE WATERS										TREATMENT PLANT EFFLUENTS				
		LAKE HAVASU	SAN JACINTO TUNNEL	LAKE MATHEWS	CASTAIC LAKE	SILVERWOOD LAKE	LAKE PERRIS	DIAMOND VALLEY LAKE	LAKE SKINNER	WEYMOUTH	DIEMER	JENSEN	SKINNER	MILLS		
SILICA	mg/L	9.0	9.9	8.4	13.4	11.2	13.4	10.1	11.7	9.5	9.3	12.2	12.1	12.6		
CALCIUM	mg/L	70	68	67	23	18	22	26	30	49	50	22	31	23		
MAGNESIUM	mg/L	25	24	26	12	13	12	13	14	21	21	12	14	12		
SODIUM	mg/L	84	84	89	54	61	55	54	56	81	83	58	66	62		
POTASSIUM	mg/L	4.3	4.3	4.5	2.8	3.0	2.9	3.2	3.3	4.0	4.0	2.7	3.4	3.0		
CARBONATE	mg/L	0	0	0	0	0	0	0	0	0	0	0	0	0		
BICARBONATE	mg/L	157	156	156	95	90	99	95	105	122	122	98	100	100		
SULFATE	mg/L	226	218	225	39	29	40	63	74	151	157	43	88	41		
CHLORIDE	mg/L	80	79	86	72	91	76	69	71	91	90	73	79	83		
NITRATE	mg/L	1.1	1.0	0.4	1.7	2.6	0.2	1.3	0.8	1.5	1.3	1.8	0.7	0.9		
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	0.8		
TOTAL DISSOLVED SOLIDS (TDS)	mg/L	578	566	585	266	274	271	287	314	470	478	274	345	288		
TOTAL HARDNESS AS CaCO ₃	mg/L	280	272	276	108	102	110	120	134	210	215	108	140	108		
TOTAL ALKALINITY AS CaCO ₃	mg/L	129	128	128	78	74	81	78	86	100	100	80	82	82		
FREE CARBON DIOXIDE	mg/L	2.0	1.5	1.7	1.5	1.8	1.8	2.1	1.8	1.7	1.6	0.6	0.8	0.7		
pH	pH	8.12	8.24	8.18	8.02	7.93	7.97	7.88	7.99	8.08	8.11	8.40	8.33	8.37		
SPECIFIC CONDUCTANCE	µS/cm	917	916	954	478	516	492	517	548	784	795	487	604	516		
COLOR	CU	3	2	2	5	7	7	4	4	2	1	1	1	1		
TURBIDITY	NTU	1.40	0.26	0.60	0.61	1.00	1.90	0.39	0.66	0.05	0.04	0.04	0.06	0.05		
TEMPERATURE	°C	11	12	15	13	9	12	14	14	12	20	14	15	13		
BROMIDE	mg/L	0.07	0.04	0.07	0.23	0.30	0.24	0.19	0.20	--	--	--	--	--		
TOTAL ORGANIC CARBON	mg/L	2.93	2.58	2.74	2.30	2.46	3.20	2.29	2.76	--	--	--	--	--		
SATURATION INDEX	--	--	--	--	--	--	--	--	--	0.19	0.36	0.18	0.25	0.14		
STATE PROJECT WATER	%	0	0	0	100	100	100	89	82	40	38	100	80	100		