

The Metropolitan Water District of Southern California

GENERAL MINERAL AND PHYSICAL ANALYSIS OF METROPOLITAN'S WATER SUPPLIES

TABLE D

November 2013

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	7.9	8.3	7.9	13.0	8.4	8.9	8.2	5.9	8.1	8.1	13.0	6.6	8.6
CALCIUM	mg/L	71	70	69	25	19	25	26	63	61	62	25	60	20
MAGNESIUM	mg/L	25	25	25	12	13	13	14	23	23	23	12	22	12
SODIUM	mg/L	79	81	83	57	70	60	56	75	85	86	62	82	76
POTASSIUM	mg/L	4.3	4.4	4.5	2.8	3.1	3.1	3.4	4.2	4.6	4.3	2.8	4.2	3.0
CARBONATE	mg/L	0	0	0	0	0	0	2	0	0	0	0	0	1
BICARBONATE	mg/L	160	161	157	104	89	110	93	150	138	138	105	143	87
SULFATE	mg/L	215	216	218	45	33	44	64	187	198	203	49	185	46
CHLORIDE	mg/L	78	80	82	78	107	83	73	79	90	88	79	87	109
NITRATE	mg/L	1.1	1.1	0.6	2.1	0.6	<0.1	0.2	0.5	0.8	0.7	2.3	0.6	1.8
FLUORIDE	mg/L	0.3	0.3	0.3	0.1	0.1	0.1	0.2	0.3	0.8	0.9	0.8	0.8	0.7
TOTAL DISSOLVED SOLIDS (TDS)	mg/L	562	567	569	287	299	292	294	513	540	545	298	520	322
TOTAL HARDNESS AS CaCO ₃	mg/L	280	278	276	116	100	116	120	247	248	256	114	246	106
TOTAL ALKALINITY AS CaCO ₃	mg/L	131	132	129	85	73	90	80	123	113	113	86	117	73
FREE CARBON DIOXIDE	mg/L	2.0	1.4	1.4	2.0	1.4	1.2	0.4	1.5	2.0	1.8	1.1	2.1	0.5
pH	pH	8.13	8.27	8.26	7.93	8.02	8.19	8.59	8.22	8.07	8.11	8.20	8.06	8.51
SPECIFIC CONDUCTANCE	µS/cm	908	920	925	532	576	545	535	856	913	912	546	874	612
COLOR	CU	--	--	--	--	--	--	--	--	--	--	--	--	--
TURBIDITY	NTU	0.84	0.47	3.3	0.50	0.75	1.2	0.40	0.47	0.05	0.04	0.04	0.06	0.05
TEMPERATURE	°C	18	19	20	19	16	19	20	21	19	21	20	20	17
BROMIDE	mg/L	0.07	0.03	0.06	0.25	0.35	0.26	0.22	0.08	--	--	--	--	--
TOTAL ORGANIC CARBON	mg/L	3.06	2.92	2.90	2.48	2.63	3.59	2.65	2.98	--	--	--	--	--
SATURATION INDEX	--	--	--	--	--	--	--	--	--	0.43	0.51	0.14	0.46	0.25
STATE PROJECT WATER	%	0	0	0	100	100	100	88	13	16	16	100	15	100