

The Metropolitan Water District of Southern California

GENERAL MINERAL AND PHYSICAL ANALYSIS OF METROPOLITAN'S WATER SUPPLIES

TABLE D

September 2018

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	8.0	7.6	11.7	9.6	7.0	8.6	7.3	8.2	8.1	11.5	7.5	8.8
CALCIUM	mg/L	71	70	65	20	16	26	26	54	51	49	21	52	16
MAGNESIUM	mg/L	25	25	26	10	10	13	12	20	21	21	10	20	10
SODIUM	mg/L	90	87	91	39	39	62	51	78	81	82	45	82	50
POTASSIUM	mg/L	4.5	4.5	4.6	2.5	2.4	4.5	3.2	3.9	3.9	4.0	2.4	4.0	2.5
CARBONATE	mg/L	0	0	1	0	0	0	0	2	0	0	1	0	0
BICARBONATE	mg/L	156	157	135	83	79	105	105	133	121	115	89	124	76
SULFATE	mg/L	224	226	235	39	31	48	52	159	174	171	42	161	37
CHLORIDE	mg/L	88	90	95	53	54	86	70	83	86	84	55	86	61
NITRATE	mg/L	1.0	0.9	0.1	2.5	0.4	<0.1	<0.1	<0.1	0.3	0.3	2.6	0.3	1.1
FLUORIDE	mg/L	0.3	0.3	0.3	0.1	<0.1	0.1	0.1	0.2	0.8	0.8	0.7	0.7	0.7
TOTAL DISSOLVED SOLIDS (TDS)	mg/L	590	590	593	219	201	299	275	474	487	478	236	476	225
TOTAL HARDNESS AS CaCO ₃	mg/L	280	269	270	96	84	115	118	220	220	214	94	216	81
TOTAL ALKALINITY AS CaCO ₃	mg/L	128	129	113	68	65	86	86	113	99	94	75	102	62
FREE CARBON DIOXIDE	mg/L	3.9	1.2	1.0	4.9	1.6	4.0	1.1	0.7	1.6	1.5	0.6	1.5	0.5
pH	pH	7.82	8.34	8.35	7.45	7.93	7.64	8.21	8.50	8.10	8.10	8.42	8.13	8.40
SPECIFIC CONDUCTANCE	µS/cm	921	935	952	408	371	532	502	759	844	825	435	820	423
COLOR	CU	--	--	--	--	--	--	--	--	--	--	--	--	--
TURBIDITY	NTU	0.98	0.43	0.83	0.73	0.74	1.2	0.64	1.3	0.06	0.05	0.04	0.06	0.05
TEMPERATURE	°C	26	28	27	15	23	25	19	27	26	28	22	29	26
BROMIDE	mg/L	0.08	0.05	0.08	0.17	0.16	0.27	0.21	0.12	--	--	--	--	--
TOTAL ORGANIC CARBON	mg/L	3.28	3.53	3.23	2.98	3.70	4.24	3.56	4.03	--	--	--	--	--
SATURATION INDEX	--	--	--	--	--	--	--	--	--	0.54	0.49	0.36	0.68	0.20
STATE PROJECT WATER	%	0	0	0	100	100	100	100	33	32	38	100	35	100