

The Metropolitan Water District of Southern California

GENERAL MINERAL AND PHYSICAL ANALYSIS OF METROPOLITAN'S WATER SUPPLIES

TABLE D

February 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	9.2	9.7	8.7	13.2	13.6	13.5	10.6	10.3	10.5	9.9	12.1	10.5	13.1		
CALCIUM	mg/L	71	70	68	23	23	23	27	42	47	53	22	40	25		
MAGNESIUM	mg/L	25	25	26	12	12	12	13	17	19	21	12	16	12		
SODIUM	mg/L	84	84	88	51	60	55	51	65	74	78	55	69	61		
POTASSIUM	mg/L	4.3	4.4	4.5	2.7	2.9	3.0	3.1	3.6	3.7	3.9	2.6	3.5	2.9		
CARBONATE	mg/L	0	0	0	0	0	0	0	0	0	0	0	0	1		
BICARBONATE	mg/L	159	159	156	95	93	98	96	120	118	123	98	111	95		
SULFATE	mg/L	220	219	221	39	38	41	60	116	140	159	42	114	47		
CHLORIDE	mg/L	78	79	84	73	84	76	69	73	88	88	75	81	86		
NITRATE	mg/L	1.2	1.1	0.5	1.9	3.7	0.2	1.4	0.7	1.9	1.7	1.9	0.9	4.3		
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	0.7		
TOTAL DISSOLVED SOLIDS (TDS)	mg/L	572	572	579	263	284	273	283	388	444	477	272	391	300		
TOTAL HARDNESS AS CaCO <sub>3</sub>	mg/L	281	280	278	106	108	112	122	176	196	216	106	168	110		
TOTAL ALKALINITY AS CaCO <sub>3</sub>	mg/L	130	130	128	78	76	80	79	98	97	101	80	91	80		
FREE CARBON DIOXIDE	mg/L	1.5	1.6	1.7	1.3	1.1	2.4	2.4	1.3	1.5	1.6	0.7	0.9	0.6		
pH		8.24	8.23	8.18	8.07	8.15	7.83	7.83	8.19	8.12	8.10	8.38	8.30	8.46		
SPECIFIC CONDUCTANCE	µS/cm	927	917	927	485	506	495	512	661	762	822	509	687	562		
COLOR	CU	--	--	--	--	--	--	--	--	--	--	--	--	--		
TURBIDITY	NTU	0.46	0.35	0.52	0.47	0.63	1.30	0.31	0.42	0.05	0.04	0.04	0.06	0.06		
TEMPERATURE	°C	10	12	14	12	10	12	14	13	12	15	14	16	13		
BROMIDE	mg/L	0.06	0.04	0.04	0.23	0.27	0.28	0.21	0.15	--	--	--	--	--		
TOTAL ORGANIC CARBON	mg/L	2.92	3.00	2.86	2.22	3.04	3.24	2.35	2.90	--	--	--	--	--		
SATURATION INDEX	--	--	--	--	--	--	--	--	--	0.21	0.39	0.19	0.37	0.26		
STATE PROJECT WATER	%	0	0	0	100	100	100	91	60	41	38	100	65	100		