

The Metropolitan Water District of Southern California

GENERAL MINERAL AND PHYSICAL ANALYSIS OF METROPOLITAN'S WATER SUPPLIES

TABLE D

June 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	WEY-MOUTH	DIEMER	JENSEN	SKINNER	MILLS		
SILICA	mg/L	8.5	8.2	8.3	12.6	9.8	10.7	10.7	8.4	7.7	7.8	12.4	8.5	10.0		
CALCIUM	mg/L	71	70	70	23	27	27	25	63	63	64	23	60	25		
MAGNESIUM	mg/L	24	24	25	13	12	13	13	23	23	24	12	23	12		
SODIUM	mg/L	80	80	83	56	57	52	56	77	86	87	60	84	63		
POTASSIUM	mg/L	4.1	4.2	4.4	2.9	2.6	3.2	2.9	4.1	4.4	4.2	2.7	4.1	2.7		
CARBONATE	mg/L	0	0	0	0	2	0	0	0	0	0	0	0	0		
BICARBONATE	mg/L	165	165	163	98	105	94	106	154	138	139	102	144	104		
SULFATE	mg/L	213	213	219	41	52	62	45	191	197	211	45	190	58		
CHLORIDE	mg/L	77	78	81	76	71	70	78	78	85	83	78	85	77		
NITRATE	mg/L	1.3	1.2	1.2	2.5	2.2	1.5	0.8	0.7	1.4	1.4	2.5	1.0	3.3		
FLUORIDE	mg/L	0.3	0.3	0.3	0.1	0.1	0.1	0.1	0.3	0.8	0.9	0.8	0.8	0.8		
TOTAL DISSOLVED SOLIDS (TDS)	mg/L	562	561	574	276	288	286	285	522	537	553	287	528	304		
TOTAL HARDNESS AS CaCO ₃	mg/L	283	279	282	114	117	123	115	251	258	264	112	250	114		
TOTAL ALKALINITY AS CaCO ₃	mg/L	135	135	134	80	90	77	87	126	113	114	84	118	85		
FREE CARBON DIOXIDE	mg/L	1.9	1.2	1.9	3.0	0.6	4.8	3.4	1.1	2.1	1.9	0.9	1.0	1.1		
pH	pH	8.15	8.37	8.16	7.74	8.46	7.51	7.72	8.38	8.03	8.09	8.29	8.39	8.20		
SPECIFIC CONDUCTANCE	µS/cm	911	910	937	508	524	513	526	861	891	907	524	864	543		
COLOR	CU	--	--	--	--	--	--	--	--	--	--	--	--	--		
TURBIDITY	NTU	0.33	0.24	0.81	0.78	0.62	0.34	0.72	0.44	0.05	0.05	0.04	0.06	0.06		
TEMPERATURE	°C	21	24	21	13	20	16	19	23	22	25	21	26	23		
BROMIDE	mg/L	0.07	0.04	0.06	0.23	0.23	0.21	0.25	0.07	--	--	--	--	--		
TOTAL ORGANIC CARBON	mg/L	2.96	2.99	2.69	2.36	3.58	2.19	3.54	3.00	--	--	--	--	--		
SATURATION INDEX	--	--	--	--	--	--	--	--	--	0.46	0.57	0.21	0.88	0.19		
STATE PROJECT WATER	%	0	0	0	100	100	98	100	16	15	18	100	18	100		