Substance	Units	MCL	PHG (MCLG)	Range	Average	Major Sources in Drinking Water
PRIMARY STANDARDS - Mandatory Health-Related Standards- *Data provided by Metropolitan Water District of Southern California*						
CLARITY						
Combined Filter Effluent Turbidity	NTU %	0.5 & 95 (a)	NA	0.13	%<0.5 =100%	Soil runoff
MICROBIOLOGICAL (b)						
Total Coliform Bacteria	%	5.0 (b)	NA	0 - 0.22%	0.09%	Naturally present in the environment
Fecal Coliform and E.coli	(c)	(c)	NA	0 positive	0 positive	Human and animal fecal waste
ORGANIC CHEMICALS						
Total Trihalomethanes (e)	ppb	100	NA	29-50	39	By-product of drinking water chlorination
INORGANIC CHEMICALS						
Aluminum (d)	ppm	1	NA	ND - 0.102	ND	Residue from water treatment process; natural deposits erosion
Fluoride	ppm	2	1	0.20 - 0.25	0.22	Erosion of natural deposits; water additive that prevents tooth decay
Nitrates (f)	ppm	10	10	ND - 0.45	ND	Runoff & leaching from fertilizer use, sewage, natural erosion
RADIONUCLIDES (g)						
Gross Alpha Particle Activity	pCi/L	15	NA	ND - 5.53	3.99	Erosion of natural deposits
Gross Beta Particle Activity	pCi/L	50	NA	ND - 7.48	5.24	Decay of natural and manmade deposits
Combined Radium (h)	pCi/L	5	NA	ND - 2.36	1.25	Erosion of natural deposits
Uranium	pCi/L	20	NA	ND - 3.18	2.61	Erosion of natural deposits
SECONDARY STANDARDS - Aesthetic Standards- *Data provided by Metropolitan Water District of Southern California*						
Chloride	ppm	500	NA	68 - 80	72	Runoff/leaching from natural deposits
Color	units	15	NA	1	1	Naturally occurring organic materials
Corrosivity (i)		non-corrosive	NA	(i)	(i)	Balance of hydrogen, carbon and oxygen in water; affected by temp., other factors
Odor Threshold (j)	units	3	NA	(j)	(j)	Naturally occurring organic materials
Specific Conductance	µmho/cm	1600	NA	759 - 827	786	Substances that form ions when in water; seawater influence
Sulfate	ppm	500	NA	160 - 176	169	Runoff/leaching from natural deposits; industrial wastes
Total Dissolved Solids	ppm	1000	NA	452 - 491	467	Runoff/leaching from natural deposits
Turbidity (monthly)	NTU	5	NA	0.05 - 0.08	0.06	Soil runoff
ADDITIONAL PARAMETERS (Unregulated) - *Data provided by Metropolitan Water District of Southern California*						
Alkalinity	ppm	NA	NA	106 - 115	109	Erosion of natural deposits
Boron	mg/L	NA	NA	0.08 - 0.12	0.11	Erosion of natural deposits
Bromodichloromethane	ppb	NA	NA	12 -18	15	By-product of drinking water disinfection
Bromoform	ppb	NA	NA	0.7 - 2.5	1.5	By-product of drinking water disinfection
Calcium	ppm	NA	NA	53 - 59	56	Runoff/leaching from natural deposits
Chloral hydrate	ppb	NA	NA	3.5 - 7.0	5.1	By-product of drinking water disinfection
Chlorodibromomethane	ppb	NA	NA	8.5 - 15	11	By-product of drinking water disinfection
Chloroform	ppb	NA	NA	9.2 - 20	15	By-product of drinking water disinfection
Cyanogen chloride	ppb	NA	NA	2.3 - 5.5	3.4	By-product of drinking water disinfection
Haloacetic acids	ppb	NA	NA	17 - 33	25	By-product of drinking water disinfection
Haloacetonitriles	ppb	NA	NA	5.6 - 17	8.7	By-product of drinking water disinfection
Haloketones	ppb	NA	NA	1.3 - 2.2	1.6	By-product of drinking water disinfection
Hardness	ppm	NA	NA	221 - 240	230	Runoff/leaching from natural deposits
Heterotrophic Plate Count (k)	CFU/ml	NA	NA	<1	<1	Naturally present in the environment
Magnesium	ppm	NA	NA	21 - 23	22	Leaching from natural deposits
Perchlorate	ppb	AL=18	NA	ND - 6	ND	Industrial waste discharges
pH	pH units	NA	NA	8.04 - 8.06	8.05	Under study for future regulations by the state & federal governments
Potassium	ppm	NA	NA	3.6 - 3.8	3.7	Runoff/leaching from natural deposits
Sodium	ppm	NA	NA	64 -73	67	Erosion of natural deposits
Total chlorine residual	ppm	NA	NA	2.21 - 2.88	2.54	By-product of drinking water chloramination
Total organic carbon	mg/L	NA	NA	2.34 - 2.69	2.54	Erosion of natural deposits
Total organic halides	ppb	NA	NA	115-157	138	By-product of drinking water disinfection
Data provided by Vallecitos Water District - Summary of Water Quality Tests						
At Distribution System:						
Total Coliform Bacteria (l)	%	5.0 (b)	NA	2 positive (l)	(l)	Bacteriological regrowth (830 samples taken)
Fecal Coliform/E.coli (l)	(c)	(c)	NA	0 positive	0 positive	Human and animal fecal waste
Total Trihalomethanes (m)	ppb	100	NA	38 - 84	49.4	By-product of drinking water chlorination
General Physical Sampling (n)	(n)	(n)	(n)	(n)	(n)	Aesthetic Standards (DHS requires VWD to conduct 16 general physical samples/month)
At Customer's Tap:						
Copper (o)	ppm	AL = 1.3	0.17	(o)	(o)	Corrosion of household plumbing & erosion of natural deposits
Lead (o)	ppb	AL =15	2	(o)	(o)	Corrosion of household plumbing & erosion of natural deposits