



**CENTRAL COAST WATER AUTHORITY
POLONIO PASS WATER TREATMENT PLANT
2001 CONSUMER CONFIDENCE REPORT**

Please see last page for key to abbreviations.

Parameter	Units	State MCL	PHG (MCLG)	State DLR	Range Average	TREATED CCWA PPWTP	SOURCE STATE WATER	Major Sources in Drinking Water
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PRIMARY STANDARDS--Mandatory Health-Related Standards

CLARITY

Combined Filter Effluent Turbidity	NTU %	0.5 95 (a)	NA	--	Range	0.04 - 0.13	--	Soil runoff
					Average	0.06	--	
					Highest	0.13	--	
					% < 0.5	100%	--	

MICROBIOLOGICAL (b)

Total Coliform Bacteria (Distr. System-Wide)	(b)	5.0%	(0)	--	Range	0.0% - 0.9%	NA	Naturally present in the environment
					Average	0.08%	NA	
					Highest	0.9%	NA	
Fecal Coliform and E. coli (Distr. System-Wide)	(b)	(b)	(0)	--	Range	0 Positives	NA	Human and animal fecal waste
					Average	0 Positives	NA	
					Highest	0 Positives	NA	

ORGANIC CHEMICALS

Total Trihalo-methanes (c)	ppb	100	NA	0.5	Range	45.0 - 53.0	ND	By-product of drinking water chlorination
					Average	48.5	ND	
Methyl-tert-butyl-ether (MTBE) (d)	ppb	5	13	3	Range	ND	ND	Leaking underground gasoline storage tanks and pipelines
					Average	ND	ND	

INORGANIC CHEMICALS

Aluminum (d)	ppm	1	0.6	0.05	Range	ND - 0.170	0.115 - 1.100	Residue from water treatment process; Erosion of natural deposits
					Average	.050	0.370	
Arsenic	ppb	50	NA	2	Range	ND	2 - 4	Natural deposits erosion, glass & electronics production wastes
					Average	ND	3	
Asbestos	MFL	7	(7)	0.2	Range	ND	2.10	Asbes. cement pipes internal corrosion; nat deposits; erosion
					Average	ND	2.10	
Fluoride	ppm	2	1	0.1	Range	ND	0.10	Erosion of natural deposits; water additive for tooth health
					Average	ND	0.10	
Nitrate (as NO ₃)	ppm	45	45	2	Range	6.60	6.16	Runoff & leaching from fertilizer use; sewage; natural erosion
					Average	6.60	6.16	
Nitrate and Nitrite (as N)	ppm	10	10	0.4	Range	1.5	1.40	Runoff & leaching from fertilizer use; sewage; natural erosion
					Average	1.5	1.40	

RADIONUCLIDES (e)

Gross Alpha Particle Activity	pCi/L	15	NA	1	Range	0.78 - 2.98	0.73 - 2.34	Erosion of natural deposits
					Average	1.46	1.49	

SECONDARY STANDARDS--Aesthetic Standards

Chloride	ppm	500	NA	--	Range	56 - 148	49 - 145	Runoff/leaching from natural deposits; seawater influence
					Average	96	93	
Color (ACU)	Units	15	NA	--	Range	5	--	Naturally occurring organic materials
					Average	5	--	
Corrosivity	SI	non-corrosive	NA	--	Range	non-	NA	Balance of hydrogen, carbon, & oxygen in water; affected by temp., other factors
					Average	corrosive	NA	
Iron	ppb	300	NA	100	Range	ND	360 - 1900	Leaching from natural deposits; industrial wastes
					Average	ND	1130	
Manganese	ppb	50	NA	20	Range	ND	ND - 70	Leaching from natural deposits
					Average	ND	35	
Odor Threshold	Units	3	NA	--	Range	1 - 2.7	2.7 - 6.7	Naturally occurring organic materials
					Average	1.5	3.9	
Specific Conductance	µmho/cm	1600	NA	--	Range	505	485	Substances that form ions when in water; seawater influence.
					Average	505	485	
Sulfate	ppm	500	NA	0.5	Range	79	61	Runoff/leaching from natural deposits; industrial wastes
					Average	79	61	
Total Dissolved Solids	ppm	1000	NA	--	Range	330	320	Runoff/leaching from natural deposits; seawater influence
					Average	330	320	
Turbidity (Monthly)	NTU	5	NA	0.05	Range	0.05 - 0.08	2.3 - 9.1	Soil runoff
					Average	0.06	4.5	

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Parameter	Units	State MCL	PHG (MCLG)	State DLR	Range Average	TREATED	SOURCE	Major Sources in Drinking Water
						CCWA PPWTP	STATE WATER	
Additional Parameters (Unregulated):								
Alkalinity	ppm	NA	NA	--	Range	73 - 96	76 - 104	Runoff/leaching from natural deposits; seawater influence
					Average	80	86	
Calcium	ppm	NA	NA	--	Range	46 - 84	46 - 76	Runoff/leaching from natural deposits; seawater influence
					Average	59	58	
Hardness (Total Hardness)	ppm	NA	NA	--	Range	93 - 156	91 - 154	Leaching from natural deposits
					Average	118	118	
Heterotrophic Plate Count (f)	CFU/mL	NA	NA	--	Range	< 1 - 1	NA	Naturally present in the environment
					Average	< 1	NA	
Magnesium	ppm	NA	NA	--	Range	14	15	Runoff/leaching from natural deposits; seawater influence
					Average	14	15	
pH	pH Units	NA	NA	--	Range	8.04 - 8.38	8.07 - 9.09	Runoff/leaching from natural deposits; seawater influence
					Average	8.19	8.55	
Potassium	ppm	NA	NA	--	Range	3.2	3.3	Runoff/leaching from natural deposits; seawater influence
					Average	3.2	3.3	
Sodium	ppm	NA	NA	--	Range	58	50	Runoff/leaching from natural deposits; seawater influence
					Average	58	50	
Total chlorine residual	ppm	NA	NA	--	Range	2.03 - 2.52	NA	Measurement of the disinfectant used in the production of drinking water
					Average	2.28	NA	
Total Organic Carbon (g) (TOC)	ppm	NA	NA	--	Range	1.82 - 2.66	2.60 - 4.20	
					Average	2.39	3.28	

Constituents of Concern:

Boron	ppb	NA	AL=1,000	100	Range	NA	140 - 230	
					Average	NA	188	
Chromium VI	ppb	NA	NA	1	Range	NA	ND	
					Average	NA	ND	
Vanadium	ppb	NA	AL=50	3	Range	NA	ND - 3.1	
					Average	NA	1.00	
Haloacetic acids	ppb	NA	NA	1.0	Range	8.4 - 12.0	NC	By-product of drinking water chlorination
					Average	9.9	NC	

ABBREVIATIONS AND NOTES

N/A = not applicable

NS = No Standard

NC = Not Collected

ND = None Detected. Detection Limits for the purposes of reporting (DLRs) available on request.

µmho/cm = micromhos per centimeter

(a) The turbidity level of the filtered water shall be less than or equal to 0.5 NTU in 95% of the measurements taken each month and shall not exceed 5.0 NTU at any time. Turbidity is a measure of the cloudiness of the water. We monitor it because it is a good indicator of the effectiveness of our filtration system. Monthly turbidity values are listed in the *Secondary Standards* section.

(b) Total coliform MCLs: No more than 5.0% of the monthly samples may be total coliform positive. Fecal coliform/*E. coli* MCLs: The occurrence of 2 consecutive total coliform positive samples, one of which contains fecal coliform/*E. coli*, constitutes an acute MCL violation. These MCLs were not violated in 2001. Results are based on the distribution system's highest percent positives.

Compliance is based on the combined samples from the distribution system and from the filtration plant. 2,200 samples were analyzed in 2001.

(c) Compliance based on the running quarterly average of treatment plant effluent samples.

(d) Aluminum & MTBE both have primary and secondary standards.

(e) Results are for the 1998 survey.

Water utilities are required to make these surveys every four years.

(f) Pour plate technique -- monthly averages.

(g) TOCs are taken at the treatment plant's combined filter effluent.

California DHS Abbreviations

AL = Regulatory Action Level

ACU = Apparent Color Units

MCL = Maximum Contaminant Level

PHG = Public Health Goal

MCLG = Maximum Contaminant Level Goal

MFL = million fibers per liter

NTU = Nephelometric Turbidity Units

pCi/L = PicoCuries per liter

ppm = parts per million, or milligrams per liter (mg/L)

ppb = parts per billion, or micrograms per liter (µg/L)

ppt = parts per trillion, or

nanograms per liter (ng/L)

ppq = parts per quadrillion, or

picograms per liter (pg/L)