



**CENTRAL COAST WATER AUTHORITY  
POLONIO PASS WATER TREATMENT PLANT  
2004 CONSUMER CONFIDENCE REPORT DATA**

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 (a)**

Combined Filter Effluent Turbidity	NTU	TT=1 NTU every 4 hours TT=% of samples <0.3 NTU			Range	0.04 - 0.14	NA	Soil runoff
					Average	100%	NA	

**MICROBIOLOGICAL (b)**

Total Coliform Bacteria (Distribution System)	--	5.0% of monthly samples	(0)	--	Range	0.0%	NA	Naturally present in the environment
					Average	<1	NA	
					Highest	<1	NA	
Fecal Coliform and E. coli (Distribution System)	--	--	(0)	--	Range	0 Positives	NA	Human and animal fecal waste
					Average	0 Positives	NA	
					Highest	0 Positives	NA	

**ORGANIC CHEMICALS**

Total Trihalomethanes (Distribution System)(c)	ppb	80	NA	0.5	Range	31 - 60	NC	By-product of drinking water chlorination
					Average	47.3	NC	
Haloacetic Acids (c) (Distribution System)	ppb	60	NA	1.0	Range	9.1 - 26	NC	By-product of drinking water chlorination
					Average	14.3	NC	
Methyl-tert-butyl-ether (MTBE) (d)	ppb	13	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	0.03 - 0.16	0.08	Residue from water treatment process; Erosion of natural deposits
					Average	0.07	0.08	
Asbestos 4/1/98 (e)	MFL	7	(7)	0.2	Range	ND	ND	Internal corrosion of asbestos cement pipe; erosion of natural deposits
					Average	ND	ND	
Fluoride	ppm	2	1	0.1	Range	ND	0.08	Erosion of natural deposits; water additive for tooth health
					Average	ND	0.08	
Nitrate (as NO <sub>3</sub> )	ppm	45	45	2	Range	1.2 - 4.8	1.89	Runoff & leaching from fertilizer use; sewage; natural erosion
					Average	2.85	1.89	
Nitrate and Nitrite (as N)	ppm	10	10	0.4	Range	0.43	0.43	Runoff & leaching from fertilizer use; sewage; natural erosion
					Average	0.43	0.43	
Total chlorine residual (Distribution System)	ppm	MRDL =	MRDLG =	--	Range	1.7 - 3.6	NA	Measurement of the disinfectant used in the production of drinking water
		4.0	4.0		Average	2.6	NA	

**RADIONUCLIDES**

Gross Alpha Particle Activity 2003-2004 (f)	pCi/L	15	N/A	1	Range	ND	ND	Erosion of natural deposits
					Average	ND	ND	

**SECONDARY STANDARDS--Aesthetic Standards**

Chloride	ppm	500	NA	--	Range	44 - 126	41 - 122	Runoff/leaching from natural deposits; seawater influence
					Average	74	71	
Color 2003 (k)	Units	15	NA	--	Range	0 - 5	13 - 174	Naturally occurring organic materials
					Average	2	59	
Corrosivity	SI	non-corrosive	NA	--	Range	non-corrosive	NA	Balance of hydrogen, carbon, & oxygen in water, affected by temperature & other factors
					Average	corrosive	NA	
Iron	ppb	300	NA	100	Range	ND	190	Leaching from natural deposits; industrial wastes
					Average	ND	190	
Manganese	ppb	50	NA	20	Range	ND	140	Leaching from natural deposits
					Average	ND	140	
Odor Threshold	Units	3	NA	--	Range	(h)	(h)	Naturally occurring organic materials
					Average	(h)	(h)	
Specific Conductance	µmho/cm	1600	NA	--	Range	257 - 684	252 - 691	Substances that form ions when in water; seawater influence.
					Average	449	422	
Sulfate	ppm	500	NA	0.5	Range	36	39	Runoff/leaching from natural deposits; industrial wastes
					Average	36	39	
Total Dissolved Solids	ppm	1000	NA	--	Range	141 - 376	139 - 381	Runoff/leaching from natural deposits; seawater influence
					Average	247	232	
Turbidity (Monthly)	NTU	5	NA	0.05	Range	0.04 - 0.06	1.2 - 10.1	Soil runoff
					Average	0.05	4.3	

**Additional Parameters (Unregulated):**

Alkalinity (Total) as CaCO <sub>3</sub> equivalents	ppm	NA	NA	--	Range	66 - 79	67 - 83	Runoff/leaching from natural deposits; seawater influence
					Average	74		
Calcium	ppm	NA	NA	--	Range	44 - 61	44 - 63	Runoff/leaching from natural deposits; seawater influence
					Average	55		
Hardness (Total) as CaCO <sub>3</sub>	ppm	NA	NA	--	Range	86 - 126	86 - 126	Leaching from natural deposits
					Average	108		
Heterotrophic Plate Count (g)	CFU/mL	TT	NA	--	Range	< 1 - 1	NA	Naturally present in the environment
					Average	1		
Magnesium	ppm	NA	NA	--	Range	13	13	Runoff/leaching from natural deposits; seawater influence
					Average	13		
pH	pH Units	NA	NA	--	Range	7.8 - 8.6	8.1 - 8.8	Runoff/leaching from natural deposits; seawater influence
					Average	8.3		
Potassium	ppm	NA	NA	--	Range	2.7	2.7	Runoff/leaching from natural deposits; seawater influence
					Average	2.7		
Sodium	ppm	NA	NA	--	Range	46	51	Runoff/leaching from natural deposits; seawater influence
					Average	46		
Total Organic Carbon (i) (TOC)	ppm	TT	NA	--	Range	1.9 - 3.2	3.3 - 5.2	Various natural and manmade sources.
					Average	2.5		

**Constituents of Concern:**

Boron 8/15/02 (j)	ppb	NA	AL=1,000	100	Range	0.098	ND - 210
					Average	0.098	
Chromium VI	ppb	NA	NA	1	Range	NA	ND
					Average	NA	
Perchlorate	ppb	NA	AL=4	4	Range	NA	ND
					Average	NA	
Vanadium 8/15/02 (j)	ppb	NA	AL=50	3	Range	3.7	ND - 4.8
					Average	3.7	

**ABBREVIATIONS AND NOTES**

**Footnotes:**

- (a) Turbidity (NTU) is a measure of the cloudiness of the water and 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 2004. 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.
- (c) Compliance based on the running quarterly annual average of distribution system samples.
- (d) Aluminum & MTBE have Secondary MCL's of 200 ppb & 5 ppb respectively.
- (e) Asbestos sampling required every nine years for vulnerable systems.
- (f) Gross alpha particle activity monitoring required every nine years. Next sample due 2013.
- (g) Pour plate technique -- monthly averages.
- (h) CCWA has developed a flavor-profile analysis method that can more accurately detect odor occurrences. For more information, contact CCWA at (805) 688-2292.
- (i) TOCs are taken at the treatment plant's combined filter effluent.
- (j) CCWA has completed the UCMR requirements. No further sampling is required until notified by DHS
- (k) Apparent Color results are from 2003 sampling. Color was not determined in 2004, but will be in 2005.

**Abbreviations**

- AL = Regulatory Action Level
- ACU = Apparent Color Units
- CCWA = Central Coast Water Authority
- CFU/ml = Colony Forming Units per milliliter
- DLR = Detection Level for purposes of Reporting
- MCL = Maximum Contaminant Level
- MCLG = Maximum Contaminant Level Goal
- MFL = Million Fibers Per Liter
- MRDL = Maximum Residual Disinfectant Level
- MRDLG = Maximum Residual Disinfectant Goal
- NA = Not Applicable
- NC = Not Collected
- ND = None Detected
- NTU = Nephelometric Turbidity Units
- pCi/L = PicoCuries per liter
- PHG = Public Health Goal
- ppb = parts per billion, or micrograms per liter (µg/L)
- ppm = parts per million, or milligrams per liter (mg/L)
- PPWTP = Polonio Pass Water Treatment Plant
- SI = Saturation Index
- TOC = Total Organic Carbon
- TT = Treatment Technique
- µmho/cm = micromhos per centimeter  
(unit of specific conductance of water)