



**CENTRAL COAST WATER AUTHORITY
 POLONIO PASS WATER TREATMENT PLANT
 WATER QUALITY TABLE
 COVERING THE REPORTING PERIOD OF JANUARY-DECEMBER 2014**

Please see last page for key to abbreviations.

Parameter	Units	State MCL	PHG (MCLG)	State DLR	Range Average	TREATED	SOURCE	Major Sources in Drinking Water
						CCWA	STATE WATER	

PRIMARY STANDARDS--Mandatory Health-Related Standards

CLARITY (a)

Combined Filter Effluent Turbidity	NTU	TT=<1 NTU every 4 hours TT=95% of samples <0.3 NTU	Range	0.04 - 0.11	NA	Soil runoff
			%	100%	NA	

INORGANIC CHEMICALS

Aluminum	ppm	1 (b)	0.6	0.05	Range	ND - 0.11	ND - 0.034 0.027	Residue from water treatment process; Erosion of natural deposits
					Average	0.069		
Arsenic, Total	ppb	10	0.004	2	Range	ND	2.0 2.0	Erosion of natural deposits; runoff from orchards; glass and electronics production wastes
					Average	ND		
Flouride	ppm	2	1	0.1	Range	ND	0.12 0.12	Discharges of oil drilling wastes and from metal refineries; erosion of natural deposits
					Average	ND		
Nitrate as Nitrogen	ppm	10 (h)	10	0.4	Range	0.38	0.38 0.38	Runoff and leaching from fertilizer use; leaching from septic tanks and sewage; erosion of natural
					Average	0.38		

RADIONUCLIDES

Gross Beta Particle	pCi/L	50	(0)	4	Range	4.1	ND	Decay of natural and man-made deposits
					Average	4.1	ND	

DISTRIBUTION SYSTEM MONITORING

Total Chlorine Residual	ppm	MRDL = 4.0	MRDLG = 4.0	NA	Range	1.5 - 3.2	NA	Measurement of the disinfectant used in the production of drinking water
					Average	2.3	NA	
Total Coliform Bacteria (c)	--	(c)	0	--	Range	0 - 1	NA	Naturally present in the environment
					Average	0.03	NA	
					Highest	1	NA	
Total Trihalomethanes (d)	ppb	80	NA	NA	Range	46 - 64	NA	By-product of drinking water chlorination
					Average	59	NA	
Haloacetic Acids (d)	ppb	60	NA	(e)	Range	8.2 - 18	NA	By-product of drinking water chlorination
					Average	12	NA	

SECONDARY STANDARDS--Aesthetic Standards

Chloride	ppm	500	NA	NA	Range	78 - 170	77 - 168	Runoff/leaching from natural deposits; seawater influence
					Average	120	116	
Color	ACU	15	NA	NA	Range	ND	20	Naturally-occurring organic materials
					Average	ND	20	
Manganese	ppb	50	NA	20	Range	ND	32	Leaching from natural deposits
					Average	ND	32	
Odor Threshold	TON	3	NA	1	Range	ND - 1	ND - 4	Naturally-occurring organic materials
					Average	ND	1.5	
Specific Conductance	uS/cm	1600	NA	NA	Range	606 - 969	565 - 908	Substances that form ions when in water; seawater influence
					Average	769	713	
Sulfate	ppm	500	NA	0.5	Range	120	82	Runoff/leaching from natural deposits; industrial wastes
					Average	120	82	
Total Dissolved Solids (TDS)	ppm	1000	NA	NA	Range	340 - 572	299 - 536	Runoff/leaching from natural deposits;
					Average	428	394	
Turbidity (Monthly)	NTU	5	NA	NA	Range	0.04 - 0.11	0.39 - 5.3	Soil runoff
					Average	0.07	1.2	

ADDITIONAL PARAMETERS (Unregulated)

Parameter	Units	State MCL	PHG (MCLG)	State DLR	TREATED		SOURCE	
					Range Average	CCWA	STATE WATER	Major Sources in Drinking Water
Alkalinity (Total) as CaCO ₃ equivalents	ppm	NA	NA	NA	Range	60 - 96	78 - 107	Runoff/leaching from natural deposits; seawater influence
					Average	77	90	
Calcium	ppm	NA	NA	NA	Range	50 - 86	52 - 88	Runoff/leaching from natural deposits; seawater influence
					Average	66	66	
Hardness (Total) as CaCO ₃	ppm	NA	NA	NA	Range	116 - 182	116 - 184	Leaching from natural deposits
					Average	138	138	
Heterotrophic Plate Count (f)	CFU/mL	TT	NA	NA	Range	0 - 1	NA	Naturally present in the environment
					Average	0.3	NA	
Magnesium	ppm	NA	NA	NA	Range	24	24	Runoff/leaching from natural deposits; seawater influence
					Average	24	24	
Manganese, Total	ppb	NA	NA	NA	Range	ND	32	Runoff/leaching from natural deposits; seawater influence
					Average	ND	32	
pH	pH Units	NA	NA	NA	Range	7.3 - 10	8.0 - 9.5	Runoff/leaching from natural deposits; seawater influence
					Average	8.2	8.8	
Potassium	ppm	NA	NA	NA	Range	4.8	4.8	Runoff/leaching from natural deposits; seawater influence
					Average	4.8	4.8	
Sodium	ppm	NA	NA	NA	Range	130	110	Runoff/leaching from natural deposits; seawater influence
					Average	130	110	
Total Organic Carbon (TOC) (g)	ppm	TT	NA	0.30	Range	1.9 - 3.5	3.1 - 6.4	Various natural and manmade sources.
					Average	2.4	4.2	

ABBREVIATIONS AND NOTES

Footnotes:

- 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.
- Aluminum has a Secondary MCL of 200 ppb.
- Total coliform MCLs: Systems that collect ≥ 40 samples/month no more than 5.0% of the monthly samples may be Total Coliform positive. Systems that collect < 40 samples per month no more than 1 positive sample per month 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. One sample tested positive for total coliform on 12/22/2014. All follow-up samples were negative.
- Compliance based on the running quarterly annual average of distribution system samples.
- Monochloroacetic Acid (MCAA) has a DLR of 2.0 ug/L while the other four Haloacetic Acids have DLR's of 1.0 ug/L.
- Pour plate technique -- monthly averages.
- TOCs are taken at the treatment plant's combined filter effluent.
- State MCL is 45 mg/L as NO₃, which equals 10 mg/L as N.

Abbreviations

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
 MRDL = Maximum Residual Disinfectant Level
 MRDLG = Maximum Residual Disinfectant Level Goal
 NA = Not Applicable
 NTU = Nephelometric Turbidity Units
 pCi/L = PicoCuries per liter
 PHG = Public Health Goal
 ppb = parts per billion, or micrograms per liter ($\mu\text{g/L}$)
 ppm = parts per million, or milligrams per liter (mg/L)
 TON = Threshold Odor Number
 TT = Treatment Technique