



CENTRAL COAST WATER AUTHORITY
OLONIO PASS WATER TREATMENT PLANT
WATER QUALITY TABLE
 COVERING THE REPORTING PERIOD OF JANUARY-DECEMBER 2019

Please see last page for key to abbreviations.

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

CLARITY (a)

Combined Filter Effluent Turbidity (a)	NTU	TT=<1 NTU every 4 hours TT=95% of samples <0.3 NTU	Range %	0.03 - 0.1 100%	NA NA	Soil runoff
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INORGANIC CHEMICALS

Aluminum	mg/L	1 (b)	0.6	0.05	Range Average	ND - 0.094 0.056	ND - 0.31 0.127	Erosion of natural deposits; residual from some surface water treatment processes
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RADIONUCLIDES

Gross Alpha Particle	pCi/L	15	(0)	3	Range Average	ND ND	5.3 5.3	Erosion of natural deposits
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DISTRIBUTION SYSTEM MONITORING

Total Chlorine Residual	mg/L	MRDL = 4.0	MRDLG = 4.0	NA	Range Average	0.33 - 3.5 2.47	NA NA	Drinking water disinfectant added for treatment
Total Coliform Bacteria (c)	--	5.0% of monthly samples	(0)	--	Range Average Highest	0 0 0%	NA NA NA	Naturally present in the environment
Total Trihalomethanes (d)	ug/L	80	NA	(0.5)	Range Average Highest LRAA	24 - 75 45 47.8	NA NA NA	By-product of drinking water chlorination
Haloacetic Acids (d)	ug/L	60	NA	(1) (e)	Range Average Highest LRAA	7.4 - 25 15 15.5	NA NA NA	By-product of drinking water chlorination

SECONDARY STANDARDS--Aesthetic Standards

Chloride	mg/L	500 (j)	NA	(1)	Range Average	13 - 146 59	11 - 142 56	Runoff/leaching from natural deposits; seawater influence
Color	ACU	15 (j)	NA	(3)	Range Average	ND ND	20 20	Naturally occurring organic materials
Corrosivity (Aggressivity Index) (i)	SU	non-corrosive	NA	(0.1)	Range Average	12 12	12	
Manganese, Total	ug/L	50 (j)	NA	(2)	Range Average	ND ND	8.8 8.8	
Odor Threshold	TON	3 (j)	NA	(1)	Range Average	ND ND	2 2	Naturally occurring organic materials
Specific Conductance	uS/cm	1600 (j)	NA	NA	Range Average	138 - 762 403	131 - 691 353	Substances that form ions when in water; seawater influence
Sulfate	mg/L	500 (j)	NA	(0.5)	Range Average	46 46	34 34	Runoff/leaching from natural deposits; industrial wastes
Total Dissolved Solids (TDS)	mg/L	1000 (j)	NA	(10)	Range Average	260 260	250 250	Runoff/leaching from natural deposits
Turbidity (Monthly) (a)	NTU	5 (j)	NA	(0.1)	Range Average	ND - 0.12 0.05	0.38 - 55 3.39	Soil runoff

						TREATED	SOURCE	
Parameter	Units	State MCL	PHG (MCLG)	State DLR	Range Average	CCWA	STATE WATER	Major Sources in Drinking Water
ADDITIONAL PARAMETERS (Unregulated)								
2-Methylisoborneol	ng/L	NA	NA	(1)	Range	ND - 1	2 - 8	An organic compound mainly produced by blue-green algae (cyanobacteria)
					Average	0.2	3.8	
Alkalinity (Total) as CaCO ₃ equivalents	mg/L	NA	NA	(2)	Range	30 - 80	28 - 86	Runoff/leaching from natural deposits; seawater influence
					Average	56	59	
Calcium	mg/L	NA	NA	(1)	Range	19	18	Runoff/leaching from natural deposits; seawater influence
					Average	19	18	
Geosmin	ng/L	NA	NA	(1)	Range	ND - 6	2 - 8	An organic compound mainly produced by bacterial growth in surface water
					Average	2.8	3.8	
Hardness (Total) as CaCO ₃	mg/L	NA	NA	(3)	Range	26 - 144	28 - 144	Leaching from natural deposits
					Average	82	82	
Heterotrophic Plate Count (f)	CFU/mL	TT	NA	NA	Range	0 - 2	NA	Naturally present in the environment
					Average	0	NA	
Magnesium	mg/L	NA	NA	(0.1)	Range	12	11	Runoff/leaching from natural deposits; seawater influence
					Average	12	11	
pH	SU	NA	NA	(0.1)	Range	7.7 - 8.7	7.5 - 9.3	Runoff/leaching from natural deposits; seawater influence
					Average	8.4	8.4	
Potassium	mg/L	NA	NA	(1)	Range	3.1	3.1	Runoff/leaching from natural deposits; seawater influence
					Average	3.1	3.1	
Sodium	mg/L	NA	NA	(1)	Range	58	50	Runoff/leaching from natural deposits; seawater influence
					Average	58	50	
Total Organic Carbon (TOC) (g)	mg/L	TT	NA	(0.3)	Range	1.5 - 3	2.6 - 5.4	Various natural and man made sources
					Average	1.9	3.2	

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 0.2 ppm.
- 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.
- 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
- 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.
- AI ≥ 12.0 = Non-aggressive water
AI (10.0 - 11.9) = Moderately aggressive water
AI ≤ 10.0 = Highly aggressive water
Reference: ANSI/AWWA Standard C400-93 (R98)
- Secondary MCL

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
 ND = Non-detected above detection limit (DLR)
 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)
 TON = Threshold Odor Number
 TT = Treatment Technique
 LRAA = Locational Running Annual Average