

PORT HUENEME WATER AGENCY

2013 Water Quality Report to Purveyors

Parameter	Units	State MCL [MRDL]	PHG (MCLG) [MRDLG]	State DLR	Range Average	Purchased	Purchased	BWRDF (Blended)	Major Sources in Drinking Water
						CMWD (Calleguas)	UWCD (United)		
Percent of Supply						48%	52%	100%	

PRIMARY STANDARDS--Mandatory Health-Related Standards

CLARITY (a)

Combined Filter Effluent Turbidity	NTU	Highest Single Value	TT = % of samples <0.3 NTU		.01	.25	0.20	Soil runoff
					100%	100%	100%	

MICROBIOLOGICAL

Total Coliform Bacteria	(b)	2 or 5.0%	(0)	--	Range	0.0%	0.0%	0.0%	Naturally present in the environment
					Average	0.0%	0.0%	0.0%	

INORGANIC CHEMICALS

Aluminum	ppb	1000	600	50	Range	67 - 110	ND	NA	Erosion of natural deposits; residue from some water treatment process
					Average	100	ND	NA	
Arsenic	ppb	10	0.004	2	Range	ND	3 - 5	NA	Erosion of natural deposits; runoff from orchards; electronics production wastes
					Average	ND	4	NA	
Treatment-related Fluoride (c)	ppm	2.0	1	0.1	Range	0.70-1.00	0.50 - 0.60	.67 - .76	Water additive that promotes strong teeth
					Highest RAA	0.8	0.55	.71	
Nitrate (as N)	ppm	10	10	0.4	Range	ND	2.7 - 4.7	2.1 - 3.6	Runoff & leaching from fertilizer use & sewage; erosion of natural deposits
					Average	ND	3.7	2.85	
Nitrite (as N)	ppm	1	1	0.4	Range	ND	ND	NA	Runoff & leaching from fertilizer use & sewage; erosion of natural deposits
					Average	ND	ND	NA	
Nitrate (as No3) (d)	ppm	45	45	2	Range	2.2	9.9 - 27.1	NA	Runoff & leaching from fertilizer use & sewage; erosion of natural deposits
					Average	2.2	17.5	NA	
Selenium	ppb	50	30	5	Range	ND - 5	10 - 20	NA	Discharge from refineries, mines and chemical manufacturers, runoff
					Average	5	15	NA	

RADIOLOGICALS [analyzed every three years, for four consecutive quarters (MWD sampled 2011, CMWD sampled 2010 and 2011)]

Gross Alpha Particle Activity	pCi/L	15	(0)	3.0	Range	ND	2.59 - 8.41	NA	Erosion of natural deposits
					Average	ND	6.34	NA	
Gross Beta Particle Activity (e)	pCi/L	50	(0)	4.0	Range	ND - 4	NA	NA	Decay of natural and manmade deposits
					Average	ND	NA	NA	
Uranium	pCi/L	20	0.43	1.0	Range	ND - 2	NA	NA	Erosion of natural deposits
					Average	1	NA	NA	

DISINFECTION BY-PRODUCTS AND DISINFECTANT RESIDUALS

Bromate (f)	ppb	10	0.1	1.0	Range	3.9 - 13.0	NA	NA	By-product of drinking water disinfection
					Highest RAA	7.6	NA	NA	
Total Chlorine Residual	ppm	[4.0]	[4]	--	Range	1.60 - 2.60	1.35 - 2.4	2.28 - 2.78	Drinking water disinfectant added for treatment
					Highest RAA	2.20	1.93	2.64	
Haloacetic Acids (g)	ppb	60	--	1.0	Range	ND - 12	ND - 7	2.5 - 3.5	By-product of drinking water disinfection
					Highest RAA	4.3	4.38	3.9	
Total Trihalomethanes (g)	ppb	80	--	1.0	Range	14.6 - 38.2	13 - 31.9	20 - 38	By-product of drinking water chlorination
					Highest RAA	22.5	22.9	29.2	

SECONDARY STANDARDS--Aesthetic Standards

Aluminum	ppb	200	600	50	Range	67 - 110	ND	NA	Erosion of natural deposits; residue from some water treatment process
					Average	100	ND	NA	
Odor Threshold	TON	3	--	1	Range	3	ND	2 - 4	Naturally occurring organic materials
					Average	3	ND	3	
Specific Conductance	µS/cm	1,600	--	--	Range	520 - 540	1360 - 1470	540 - 590	Substances that form ions when in water; seawater influence
					Average	530	1413	565	
Sulfate	ppm	500	--	0.5	Range	44 - 51	440 - 580	119 - 130	Runoff/leaching from natural deposits; industrial wastes
					Average	48	499	125	
Total Dissolved Solids	ppm	1,000	--	--	Range	280 - 300	960 - 1060	340 - 370	Runoff/leaching from natural deposits
					Average	290	1013	355	

ADDITIONAL PARAMETERS (Unregulated)

Boron	ppm	NL=1	--	0.1	Range	.16	.60 - .70	.66 - .69	
					Average	.16	.65	.66	
Chlorate	ppb	NL=800	--	20	Range	25	NA	NA	
					Average	25	NA	NA	
Chromium (Total)	ppb	50	NONE	10	Range	ND	0	NA	
					Average	ND	0	NA	
Corrosivity (h)	Al	NS	--	--	Range	12.0	NA	11	
					Average	12.0	NA	11	
Hardness (Total Hardness)	ppm	NS	--	--	Range	110 - 120	574 - 609	156 - 180	
					Average	110	591.5	168	
N-Nitrosodimethylamine (NDMA)	ppt	NL=10	--	--	Range	ND - 5	NA	NA	
					Average	3	NA	NA	
pH	pH Units	NS	--	--	Range	8.2 - 8.4	7.5 - 7.6	7.9 - 8.0	
					Average	8.3	7.6	7.9	
Potassium	ppm	NS	--	--	Range	3	5 - 6	2.5 - 2.7	
					Average	3	5.5	2.6	
Radon	pCi/L	NS	--	100.0	Range	ND	319 - 412	NA	
					Average	ND	370	NA	
Sodium	ppm	NS	--	--	Range	57 - 60	96 - 96	54 - 59	
					Average	58	96	57	
Total Organic Carbon	ppm	TT	--	0.3	Range	1.8 - 2.0	0.8 - 2.1	NA	
					Average	1.9	1.3	NA	
Vanadium	ppb	NL=50	--	3	Range	3.2	NA	NA	
					Average	3.2	NA	NA	

PORT HUENEME WATER AGENCY
2013 Water Quality Report to Purveyors

Parameter	Units	State MCL [MRDL]	PHG (MCLG) [MRDLG]	State DLR	Range Average	Purchased	Purchased	BWRDF (Blended)	Major Sources in Drinking Water
						CMWD (Calleguas)	UWCD (United)		

ABBREVIATIONS AND NOTES

AI = Aggressiveness Index	NL = Notification Level
AL = Federal Regulatory Action Level	NS = No Standard
DLR = Detection Limits for Purposes of Reporting	NTU = Nephelometric Turbidity Units
MCL = Maximum Contaminant Level	pCi/L = PicoCuries per Liter
MCLG = Maximum Contaminant Level Goal	PHG = Public Health Goal
MFL = Million Fibers per Liter	ppm = Parts per Million, or Milligrams per Liter (mg/L)
µS/cm = MicroSiemen per Centimeter	ppb = Parts per Billion, or Micrograms per Liter (µg/L)
MPN = Most Probable Number	ppt = Parts per Trillion, or Nanograms per Liter (ng/L)
MRDL = Maximum Residual Disinfectant Level	ppq = Parts per Quadrillion, or Picograms per Liter (pg/L)
MRDLG = Maximum Residual Disinfectant Level Goal	RAA = Running Annual Average
NA = Not Analyzed	TON = Threshold Odor Number
ND = None Detected	TT = Treatment Technique

CMWD (Calleguas)	Calleguas Municipal Water District- Surface Water Source
UWCD (United)	United Water Conservation District
BWRDF (Blended)	Brackish Water Reclamation Demonstration Facility (BWRDF) - Samples taken after Calleguas and United sources were blended.

- (a) The turbidity level of the filtered water shall be less than or equal to 0.3 NTU in 95% of the measurements taken each month and shall not exceed 1.0 NTU at any time.
- (b) Total coliform MCLs: No more than 5.0% of the monthly samples may be total coliform positive (or 2 samples if a system collects less than 40 samples per month). Calleguas collects less than 40, Metropolitan collects greater than 40. Fecal coliform/E. coli MCLs: The occurrence of 2 consecutive total coliform positive samples, one of which containing fecal coliform/E. coli, constitutes an acute MCL violation. These MCLs were not violated in 2011.
- (c) The Metropolitan Water District treats their water by adding fluoride to the naturally occurring level in order to help prevent dental cavities in consumers. The fluoride levels in the treated water are maintained within a range of 0.7 - 1.3 ppm, as required by Department regulations.
- (d) State MCL is 45 mg/L as Nitrate, which equals 10.16 mg/L as Nitrogen.
- (e) The gross beta particle activity MCL is 4 millirem/year annual dose equivalent to the total body or any internal organ. The screening level is 50 pCi/L.
- (f) Compliance for treatment plants that use ozone is based on a running annual average of monthly samples. UWCD water is not subject to these requirements.
- (g) Compliance is based on a running annual average of quarterly distribution system samples.
- (h) AI measures the aggressiveness of water transported through pipes. Water with AI <10.0 is highly aggressive and would be very corrosive to almost all materials found in a typical water system. AI > 12.0 indicates non-aggressive water. AI between 10.0 and 11.9 indicates moderately aggressive water.