

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.

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

PRIMARY STANDARDS--Mandatory Health-Related Standards

CLARITY (a)						
Combined Filter	NTU	TT=<1 NTU every 4 hours	Range	0.04 - 0.11	NA	Soil rupoff
Effluent Turbidity	NIO	TT=95% of samples <0.3 NTU	%	100%	NA	

INORGANIC CHEMICALS

Aluminum	nnm	1 (b)	0.6	0.05	Range	ND - 0.11	N	D - 0.034	Residue from water treatment process;
Aluminum	ppm	I (D)	0.0	0.05	Average	0.069		0.027	Erosion of natural deposits
Arconic Total	nnh	10	0.004	2	Range	ND		2.0	Erosion of natural deposits; runoff from orchards;
Alsenic, Total	php	10	0.004	2	Average	ND		2.0	glass and electronics production wastes
Flourido	0000	2	1	0.1	Range	ND		0.12	Discharges of oil drilling wastes and from metal
Fibulide	ppm	2		0.1	Average	ND		0.12	refineries; erosion of natural deposits
Nitrata an Nitragan	000	10 (b)	10	0.4	Range	0.38		0.38	Runoff and leaching from fertilizer use; leaching
initiate as millogen	hhiii	10 (11)	10	0.4	Average	0.38		0.38	from septic tanks and sewage; erosion of natural

RADIONUCLIDES

Gross Beta Particle	nCi/l	50	(0)	4	Range	4.1	ND	Decay of natural and man-made deposits
	poi/L	50	(0)	4	Average	4.1	ND	Decay of flatural and man-filade deposits

DISTRIBUTION SYSTEM MONITORING

Total Chlorine Residual	nnm	MRDL =	MRDLG =	ΝΔ	Range	1.5 - 3.2		NA	Measurement of the disinfectant
Total Onionne Residual	ppm	4.0	4.0		Average	2.3		NA	used in the production of drinking water
Total Coliform Bactoria					Range	0 - 1		NA	
		(c)	0		Average	0.03		NA	Naturally present in the environment
(0)					Highest	1		NA	
Total Trihalomethanes	nnh	90	NIA	NIA	Range	46 - 64	IF	NA	By-product of drinking water
(d)	ppp	80	IN/A	IN/A	Average	59		NA	chlorination
Halaacatic Acids (d)	nnh	60	NIA	(\mathbf{o})	Range	8.2 - 18	1 [NA	By-product of drinking water
Taluacelle Acius (U)	ppp	00	IN/A	(6)	Average	12		NA	chlorination

SECONDARY STANDARDS--Aesthetic Standards

Chloride	ppm	500	NA	NA	Range	78 - 170		77 - 168	Runoff/leaching from natural deposits;
	• •				Average	120		116	seawater influence
Color	ACU	15	NΑ	ΝΔ	Range	ND		20	Naturally-occurring organic materials
000	700	15	INA.	114	Average	ND		20	Naturally-occurring organic materials
Mangapasa	nnh	50	ΝΔ	20	Range	ND		32	Leaching from natural deposits
Manganese	ppp	50	INA.	20	Average	ND		32	
Odor Threshold	TON	3	NΔ	1	Range	ND - 1		ND - 4	Naturally-occurring organic materials
	TON	5	INA.	1	Average	ND		1.5 Na	Naturally-occurring organic materials
Specific	uS/cm	1600	NΙΔ	ΝΑ	Range	606 - 969		565 - 908	Substances that form ions
Conductance	u3/cm	1000	INA	IN/A	Average	769		713	when in water; seawater influence
Sulfate	nnm	500	NA	0.5	Range	120		82	Runoff/leaching from natural deposits;
Sullate	ppin	500	INA.	0.5	Average	120		82	industrial wastes
Total Dissolved	000	1000	ΝΑ	ΝΑ	Range	340 - 572		299 - 536	Rupoff/loaching from patural doposite:
Solids (TDS)	ppm	1000	INA	IN/A	Average	428		394	Runon/leaching norm natural deposits,
Turbidity (Monthly)	NTU	5	NA	NA	Range	0.04 - 0.11	1	0.39 - 5.3	Soil rupoff
	NIU	5	IN/A	11/4	Average	0.07		1.2	

ADDITIONAL PARAMETERS (Unregulated)

						TREATED		SOURCE	
		State	PHG	State	Range			STATE	
Parameter	Units	MCL	(MCLG)	DLR	Average	CCWA		WATER	Major Sources in Drinking Water
Alkalinity (Total) as	nnm	NA	NIA	NΙΛ	Range	60 - 96		78 - 107	Runoff/leaching from natural deposits;
CaCO ₃ equivalents	ppm	INA	INA	INA	Average	77		90	seawater influence
Calcium	nnm	NΔ	NΔ	NΔ	Range	50 - 86		52 - 88	Runoff/leaching from natural deposits;
Calcium	ppin	NA	11/7		Average	66		66	seawater influence
Hardness (Total) as	nnm	NΔ	NΔ	NΔ	Range	116 - 182		116 - 184	Leaching from natural denosits
CaCO₃	ppin	NA	IN-A	INA.	Average	138		138	
Heterotrophic Plate	CELI/mI	тт	NΔ	NΔ	Range	0 - 1		NA	Naturally present in the environment
Count (f)		11		IN/A	Average	0.3		NA	
Magnesium	nnm	ΝΔ	NΔ	NΔ	Range	24		24	Runoff/leaching from natural deposits;
Magnesium	ppm	NA	11/7	INA.	Average	24		24	seawater influence
Manganese Total	nnh	NΔ	NΔ	NΔ	Range	ND		32	Runoff/leaching from natural deposits;
Manganese, rotai	ppp	IN/A	11/5	IN/A	Average	ND		32	seawater influence
ъН	рН	ΝΑ	ΝΑ	NΔ	Range	7.3 - 10		8.0 - 9.5	Runoff/leaching from natural deposits;
pri	Units		11/7		Average	8.2		8.8	seawater influence
Potassium	nnm	NA	NA	ΝΔ	Range	4.8		4.8	Runoff/leaching from natural deposits;
1 0185310111	ppin		11/7	INA.	Average	4.8		4.8	seawater influence
Codium		NIA	NIA	NIA	Range	130		110	Runoff/leaching from natural deposits;
Sodium	ppm	INA	INA	INA	Average	130		110	seawater influence
Total Organic Carbon			NIA	0.00	Range	1.9 - 3.5	1	3.1 - 6.4	
(TOC) (g)	ppm	11	NA	0.30	Average	2.4		4.2	various natural and manmade sources.

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) Aluminum has a Secondary MCL of 200 ppb.
- (c) 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 samles 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.
- (d) Compliance based on the running quarterly annual average of distribution system samples.
- (e) 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.
- (f) Pour plate technique -- monthly averages.
- (g) TOCs are taken at the treatment plant's combined filter effluent.
- (h) State MCL is 45 mg/L as NO $_3$, 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 (µg/L) ppm = parts per million, or milligrams per liter (mg/L)
- TON = Threshold Odor Number
- TT = Treatment Technique

					Raw Source	e Water	er Treated Water		
		State or			State Wate	r Project	Polonio Pa	ss WTP	
Parameter	Units	Federal MCL [MRDL]	PHG (MCLG) [MRDLG]	State DLR (MRL)	Most Recent Sample Date	Result	Most Recent Sample Date	Result	Major Sources in Drinking Water
MICROBIOLOGICAL		-							
	Occurate/								
Cryptosporidium	200L	Π	(0)	NA	12/16/2014	0	NC	NC	Naturally present in the environment
Fecal Coliform and E_coli		(a)	(0)	NA	NA	NA	12/31/2014	0	Human and animal fecal waste
		(4)	(0)				12/01/2011		
Giardia	Cysts/ 200L	тт	(0)	NA	12/16/2014	0	NC	NC	Naturally present in the environment
Total California WTD Complete	0(= = = : : : : : =	(6)	(0)	NIA	NIA	NIA	40/04/0044	09/	
Total Collion - WTP Samples	% positive	(0)	(0)	NA	INA	INA	12/31/2014	0%	
RADIONUCLIDES									
Gross Alpha Particle	nCi/l	15	(0)	3	12/18/2013	ND	12/18/2013	ND	Erosion of natural deposite
	poi/L	15	(0)	5	12/10/2013	ND	12/10/2013		
ORGANIC CHEMICALS									
Regulated VOC's plus Li	sts 1&3	(EPA 5	24.2)						
1 1 1 2-Tetrachloroethane	nnh	NA	NA	0.5	5/1/2014	ND	5/1/2014	ND	
	ppb	107		0.0	0/1/2011	HB	0/1/2014		
1,1,1-Trichloroethane (1,1,1-TCA)	ppb	200	1,000	0.5	5/1/2014	ND	5/1/2014	ND	Discharge from metal degreasing sites and other factories; manufacture of food wrappings
1,1,2,2-Tetrachloroethane	ppb	1	0.1	0.5	5/1/2014	ND	5/1/2014	ND	Discharge from industrial and agricultural chemical factories; solvent used in production of TCE, pesticides, varnish and lacquers
1 1 2-Trichloro-1 2 2-trifluoroethane									
(Freon 113)	ppm	1.2	4	0.01	5/1/2014	ND	5/1/2014	ND	Discharge from metal degreasing sites and other factories; drycleaning solvent; refrigerant
1,1,2-Trichloroethane (1,1,2-TCA)	ppb	5	0.3	0.5	5/1/2014	ND	5/1/2014	ND	Discharge from industrial chemical factories
1,1-Dichloroethane (1,1-DCA)	ppb	5	3	0.5	5/1/2014	ND	5/1/2014	ND	Extraction and degreasing solvent; used in manufacture of pharmaceuticals, stone, clay and glass products; fumigant
1,1-Dichloroethene (1,1-DCE)	ppb	6	10	0.5	5/1/2014	ND	5/1/2014	ND	Discharge from industrial chemical factories
1,1-Dichloropropene	ppb	NA	NA	0.5	5/1/2014	ND	5/1/2014	ND	
1,2,3-Trichlorobenzene	ppb	NA	NA	0.5	5/1/2014	ND	5/1/2014	ND	
1 2 3-Trichloropropage	nnh	NA (a)	0.0007	0.005	5/1/2014	ND	5/1/2014	ND	
	ppb	1 0 /(g/	0.0001	0.000	0/1/2014	THE .	0/1/2014		
1,2,4-Trichlorobenzene	ppb	5	5	0.5	5/1/2014	ND	5/1/2014	ND	Discharge from textile-finishing factories
1,2,4-Trimethylbenzene	ppb	NA	NA	(0.5)	5/1/2014	ND	5/1/2014	ND	
1 2-Dibromoethane	ppb	NA	NA	0.5	5/1/2014	ND	5/1/2014	ND	
	FF-								
1,2-Dichlorobenzene (o-DCB)	ppb	600	600	0.5	5/1/2014	ND	5/1/2014	ND	Discharge from industrial chemical factories
1,2-Dichloroethane (1,2-DCA)	ppt	500	400	500	5/1/2014	ND	5/1/2014	ND	Discharge from industrial chemical factories
	nah	F	0.5	0.5	5/1/2014	ND	5/1/2014	ND	Discharge from industrial chamical factories: primery company of some fumicants
	αqq	5	0.5	0.5	5/1/2014	ND	5/1/2014	ND	Unscharge nom industrial chemical ractories; primary component of some fumigants
1,3,5-Trimethylbenzene	ppb	NA	NA	0.5	5/1/2014	ND	5/1/2014	ND	
1,3-Dichlorobenzene (m-DCB)	ppb	NA	NA	0.5	5/1/2014	ND	5/1/2014	ND	
					E 14 (5 - · · ·	N/=	= 14 (6	N/=	
1,3-Dichloropropane	ppb	NA	NA	0.5	5/1/2014	ND	5/1/2014	ND	

					Raw Source	e Water	Treated Water		
	İ	State or			State Wate	r Project	Polonio Pa	ss WTP	
		Federal	PHG	State	Most Recent		Most Recent		
_		MCL	(MCLG)	DLR	Sample		Sample		
Parameter	Units			(MRL)	Date 5/1/2014	Result	Date	Result	Major Sources in Drinking Water
	ppp	5	0	0.5	5/1/2014	ND	5/1/2014	ND	
2,2-Dichloropropane	ppb	NA	NA	0.5	5/1/2014	ND	5/1/2014	ND	
2-Butanone (MEK)	ppb	NA	NA	5	5/1/2014	ND	5/1/2014	ND	
2-Chloroethyl vinyl ether	daa	NA	NA	(1)	5/1/2014	ND	5/1/2014	ND	
	FF			(-)					
2-Chlorotoluene (o-Chlorotoluene)	ppb	NA	NA	0.5	5/1/2014	ND	5/1/2014	ND	
2 Havanana	pph	NA	NA	(5)	5/1/2014	ND	5/1/2014	ND	
2-nexanone	ppp	INA	INA	(5)	5/1/2014	ND	5/1/2014	ND	
4-Methyl-2-pentanone (MIBK)	ppb	NA	NA	5	5/1/2014	ND	5/1/2014	ND	
Acetonitrile	ppb	NA	NA	(5)	5/1/2014	ND	5/1/2014	ND	
Acrolein	daa	NA	NA	(10)	5/1/2014	ND	5/1/2014	ND	
	FF			(10)					
Acrylonitrile	ppb	NA	NA	(2)	5/1/2014	ND	5/1/2014	ND	
Allyl oblorida	pph	NA	NA	(0.5)	5/1/2014	ND	5/1/2014	ND	
Allyl chloride	ρρυ	NA	INA	(0.5)	5/1/2014	ND	5/1/2014	ND	
Benzene	ppb	1	0.15	0.5	5/1/2014	ND	5/1/2014	ND	Discharge from plastics, dyes and nylon factories; leaching from gas storage tanks and landfills
Bromobenzene	ppb	NA	NA	0.5	5/1/2014	ND	5/1/2014	ND	
Bromochloromethane	daa	NA	NA	0.5	5/1/2014	ND	5/1/2014	ND	
Bromomethane (Methyl Bromide)	ppb	NA	NA	0.5	5/1/2014	ND	5/1/2014	ND	
Carbon disulfida	pph	NA	NA	0.5	5/1/2014	ND	5/1/2014	ND	
Carbon disulide	ppp	INA	INA	0.5	5/1/2014	ND	5/1/2014	ND	
Carbon tetrachloride	ppt	500	100	500	5/1/2014	ND	5/1/2014	ND	Discharge from chemical plants and other industrial activities
Chlorobenzene (Monochlorobenzene)	ppb	70	200	0.5	5/1/2014	ND	5/1/2014	ND	Discharge from industrial and agricultural chemical factories and drycleaning facilities
Chloroethane	ppb	NA	NA	0.5	5/1/2014	ND	5/1/2014	ND	
					E///00///	ND	E (4 /00 4 4		
Chloromethane (Methyl chloride)	ррь	NA	NA	0.5	5/1/2014	ND	5/1/2014	ND	
			100		= (1/22) (1		= 11/0011		Discharge from industrial chemical factories; major biodegradation byproduct of TCE and PCE
cis-1,2-Dichloroethene (c-1,2-DCE)	ррь	6	100	0.5	5/1/2014	ND	5/1/2014	ND	groundwater contamination
		NIA	NIA	(0,5)	E/4/004.4	ND	E /4 /004 4	ND	
cis-1,3-Dichloropropene	ррр	NA	NA	(0.5)	5/1/2014	ND	5/1/2014	ND	Runott/leaching from nematocide used on croplands
Dibromomethane	ppb	NA	NA	(0.5)	5/1/2014	ND	5/1/2014	ND	
Diethyl ether	ppb	NA	NA	(0.5)	5/1/2014	ND	5/1/2014	ND	
Diisopropyl ether (DIPE)	nnh	NA	NA	3	5/1/2014	ND	5/1/2014	ND	
	ppo				0/1/2011		6/ 1/2011		
Dichlorodifluoromethane (Freon 12)	ppb	NA	NA	0.5	5/1/2014	ND	5/1/2014	ND	
Ethanol	nah	NIA	NA	(50)	5/1/2014	ND	5/1/2014	ND	
	hhn	NA	NA	(30)	5/1/2014		5/1/2014	ND	
Ethyl benzene	ppb	300	300	0.5	5/1/2014	ND	5/1/2014	ND	Discharge from petroleum refineries; industrial chemical factories
Ethyl methacrylate	ppb	NA	NA	(2)	5/1/2014	ND	5/1/2014	ND	
Ethyl-t-butyl ether (ETBE)	ppb	NA	NA	3	5/1/2014	ND	5/1/2014	ND	
Hexachloro-1,3-butadiene	ppb	NA	NA	0.5	5/1/2014	ND	5/1/2014	ND	

					Raw Source Water		Treated Water		
		State or			State Wate	r Project	Polonio Pa	ss WTP	
		Federal	PHG	State	Most Recent		Most Recent		
Deveryoten	Unite	MCL	(MCLG)	DLR	Sample	Desult	Sample	Desult	Maios Courses in Drinking Water
Parameter	Units	[WIRDL]	[MRDLG]		Date	Result	Date	Result	Major Sources in Drinking Water
lodomethane	daa	NA	NA	(2)	5/1/2014	ND	5/1/2014	ND	
Isopropylbenzene (Cumene)	ppb	NA	NA	0.5	5/1/2014	ND	5/1/2014	ND	
m p-Xvlenes	nnh	NΔ	ΝΔ	0.5	5/1/2014	ND	5/1/2014	ND	Discharge from petroleum and chemical factories: fuel solvent
	ρρυ		11/3	0.0	3/1/2014	ND	3/1/2014	ND	
Methacrylonitrile	ppb	NA	NA	(5)	5/1/2014	ND	5/1/2014	ND	
Mothyl mothoondata	nnh	ΝΔ	NA	(5)	5/1/2014	ND	5/1/2014	ND	
Metry method yate	ppp			(3)	3/1/2014	ND	3/1/2014	ND	
Methylene chloride (Dichloromethane)	ppb	5	4	0.5	5/1/2014	ND	5/1/2014	ND	Discharge from pharmaceutical and chemical factories; insecticide
Methyl tert-butyl ether (MTBE) (c)	ppb	13 (d)	13	3	5/1/2014	ND	5/1/2014	ND	Leaking underground storage tanks; discharge from petroleum and chemical factories
Naphthalene	daa	NA	NA	0.5	5/1/2014	ND	5/1/2014	ND	
n-Butylbenzene	ppb	NA	NA	0.5	5/1/2014	ND	5/1/2014	ND	
n-Pronylbenzene	nnh	ΝΔ	ΝΔ	0.5	5/1/2014	ND	5/1/2014	ND	
	ρρυ		IN/A	0.0	3/1/2014	ND	3/1/2014	ND	
o-Xylene	ppb	NA	NA	0.5	5/1/2014	ND	5/1/2014	ND	Discharge from petroleum and chemical factories; fuel solvent
	and h	NIA	NIA	0.5	E/4/004.4	ND	E 14 1004 4	ND	
p-Chlorotoluene	ррр	NA	NA	0.5	5/1/2014	ND	5/1/2014	ND	
p-lsopropyltoluene	ppb	NA	NA	(0.5)	5/1/2014	ND	5/1/2014	ND	
· · · · · ·									
Pentachloroethane	ppb	NA	NA	(5)	5/1/2014	ND	5/1/2014	ND	
sec-Butylbenzene	daa	NA	NA	0.5	5/1/2014	ND	5/1/2014	ND	
	FF-								
Styrene	ppb	100	0.5	0.5	5/1/2014	ND	5/1/2014	ND	Discharge from rubber and plastic factories; leaching from landfills
tort Amyl mothyl othor (TAME)	nnh	ΝΔ	NA	2	5/1/2014	ND	5/1/2014	ND	
	ppp	INA	INA.	3	5/1/2014	ND	5/1/2014	ND	
tert-butyl alcohol	ppb	NA	NA	(10)	5/1/2014	ND	5/1/2014	ND	
tert-Butylbenzene	ppb	NA	NA	0.5	5/1/2014	ND	5/1/2014	ND	
Tetrachloroethene (PCE)	ppb	5	0.06	0.5	5/1/2014	ND	5/1/2014	ND	Discharge from factories, dry cleaners, and auto shops (metal degreaser)
Toluene	ppb	150	150	0.5	5/1/2014	ND	5/1/2014	ND	Discharge from petroleum and chemical factories; underground gas tank leaks
Total 1 3-Dichloropropene	nnt	500	200	500	5/1/2014	ND	5/1/2014	ND	Runoff/leaching from nematocide used on cronlands
	ρρι	300	200	500	3/1/2014	ND	3/1/2014	ND	
Total Xylenes	ppm	1.75	1.8	0.0005	5/1/2014	ND	5/1/2014	ND	Discharge from petroleum and chemical factories; fuel solvent
									Disabases from industrial abarriad factorias, mines biodeses define burned at a TOE and DOE
trans-1,2-Dichloroethene (t-1,2-DCE)	ppb	10	60	0.5	5/1/2014	ND	5/1/2014	ND	Discharge from industrial chemical factories; minor biodegradation byproduct of TCE and PCE
									ground rater containing and
trans-1,3-Dichloropropene	ppb	NA	NA	(0.5)	5/1/2014	ND	5/1/2014	ND	Runoff/leaching from nematocide used on croplands
trans 1.4 dishlars 2 hutana	nnh	NIA	NIA	(E)	E/1/2014	ND	E/1/2014	ND	
	μρο	NA	NA	(5)	5/1/2014	ND	5/1/2014	ND	
Trichloroethene (TCE)	ppb	5	1.7	0.5	5/1/2014	ND	5/1/2014	ND	Discharge from metal degreasing sites and other factories
			_			•	- 1. 1		
I richlorofluoromethane (Freon 11)	ppb	150	700	5	5/1/2014	ND	5/1/2014	ND	Discharge from industrial factories; degreasing solvent; propellant and refrigerant
Vinyl acetate	ppb	NA	NA	(5)	5/1/2014	ND	5/1/2014	ND	
	FP~			(0)					
Vinyl chloride (VC)	ppt	500	50	500	5/1/2014	ND	5/1/2014	ND	Leaching from PVC piping; discharge from plastics factories; biodegradation byproduct of TCE and
					-		-		PCE groundwater contamination

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					Raw Source Water		Treated \	Water	
		State or			State Water	r Project	Polonio Pa	ss WTP	
Parameter	Units	Federal MCL [MRDL]	PHG (MCLG) [MRDLG]	State DLR (MRL)	Most Recent Sample Date	Result	Most Recent Sample Date	Result	Maior Sources in Drinking Water
Organochlorine Pesticid	es/PCBs	s (EPA :	505)						· · · · · · · · · · · · · · · · · · ·
	and h	0	4	4	E/4/0044	ND	5/4/004.4	ND	
Alachior (Alanex)	ррр	2	4	1	5/1/2014	ND	5/1/2014	ND	Runoff from herbicide used on row crops
Aldrin	ppb	NA	NA	0.075	5/1/2014	ND	5/1/2014	ND	
Chlordona	nnt	100	20	100	E/1/2014	ND	E/1/2014	ND	Desidue of honnod insecticide
Chiordane	ρρι	100	30	100	5/1/2014	ND	5/1/2014	ND	
Dieldrin	ppb	NA	NA	0.02	5/1/2014	ND	5/1/2014	ND	
Endrin	nnh	2	1.8	0.1	5/1/2014	ND	5/1/2014	ND	Pesidue of banned insecticide and rodenticide
	ppb	2	1.0	0.1	3/1/2014	ND	3/1/2014	ND	
Heptachlor	ppt	10	8	10	5/1/2014	ND	5/1/2014	ND	Residue of banned insecticide
Heptachlor epoxide	ppb	10	6	10	5/1/2014	ND	5/1/2014	ND	Breakdown of beptachlor
	ppo	10	Ű	10	0/1/2014	NB	0/1/2014	NB	
Lindane (gamma-BHC)	ppt	200	32	200	5/1/2014	ND	5/1/2014	ND	Runoff/leaching from insecticide used on cattle, lumber, gardens
Methoxychlor	daa	30	0.09	10	5/1/2014	ND	5/1/2014	ND	Runoff/leaching from insecticide used on fruits, vegetables, alfalfa, livestock
	FF.*								
PCB 1016 Aroclor (as DCB)	ppt	500	NA	500	5/1/2014	ND	5/1/2014	ND	Runoff from landfills; discharge of waste chemicals
PCB 1221 Aroclor (as DCB)	ppt	500	NA	500	5/1/2014	ND	5/1/2014	ND	Runoff from landfills: discharge of waste chemicals
	FF.								
PCB 1232 Aroclor (as DCB)	ppt	500	NA	500	5/1/2014	ND	5/1/2014	ND	Runoff from landfills; discharge of waste chemicals
PCB 1242 Aroclor (as DCB)	ppt	500	NA	500	5/1/2014	ND	5/1/2014	ND	Runoff from landfills: discharge of waste chemicals
	FF.								
PCB 1248 Aroclor (as DCB)	ppt	500	NA	500	5/1/2014	ND	5/1/2014	ND	Runoff from landfills; discharge of waste chemicals
PCB 1254 Aroclor (as DCB)	ppt	500	NA	500	5/1/2014	ND	5/1/2014	ND	Runoff from landfills: discharge of waste chemicals
PCB 1260 Aroclor (as DCB)	ppt	500	NA	500	5/1/2014	ND	5/1/2014	ND	Runoff from landfills; discharge of waste chemicals
Total PCB's	ppt	500	90	500	5/1/2014	ND	5/1/2014	ND	Runoff from landfills; discharge of waste chemicals
		-			- / / /				
Toxaphene	ppb	3	0.03	1	5/1/2014	ND	5/1/2014	ND	Runoff/leaching from insecticide used on cotton and cattle
Aldicarbs (EPA 531.2)									
3-Hydroxycarbofuran	ppb	NA	NA	3	5/1/2014	ND	5/1/2014	ND	
Aldicarb (Temik)	ppb	NA	NA	3	5/1/2014	ND	5/1/2014	ND	
	660				0,112011		0,112011		
Aldicarb sulfone	ppb	NA	NA	4	5/1/2014	ND	5/1/2014	ND	
Aldicarb sulfoxide	ppb	NA	NA	3	5/1/2014	ND	5/1/2014	ND	
Baygon (Propoxur)	ppb	NA	NA	(0.5)	5/1/2014	ND	5/1/2014	ND	
Carbaryl	ppb	NA	NA	5	5/1/2014	ND	5/1/2014	ND	
			4 -		= 14 (C - · · ·	15			
Carboturan (FURADAN)	ppb	18	1.7	5	5/1/2014	ND	5/1/2014	ND	Leaching of soil fumigant used on rice and altalta, and grape vineyards
Methiocarb	ppb	NA	NA	(0.5)	5/1/2014	ND	5/1/2014	ND	
					= 14 (C - · · ·				
Methomyl	ppb	NA	NA	2	5/1/2014	ND	5/1/2014	ND	
Oxamyl (Vydate)	ppb	50	26	20	5/1/2014	ND	5/1/2014	ND	Runoff/leaching from insecticide used on field crops, fruits and ornamentals, especially apples, potatoes, and tomatoes

					Raw Source Water		Treated Water			
	Ĩ	State or			State Wate	r Project	Polonio Pass WTP			
		Federal	PHG	State	Most Recent		Most Recent			
Parameter	Unite		(MCLG)		Sample	Pocult	Sample	Pocult	Major Sources in Drinking Water	
reference										
		, 								
Diquat	ppb	20	15	4	5/1/2014	ND	5/1/2014	ND	Runoff from herbicide use for terrestrial and aquatic weeds	
Paraguat	nnh	NA	ΝA	(2.0)	5/1/2014	ND	5/1/2014	ND		
Falaquat	phn	INA	INA	(2.0)	5/1/2014	ND	5/1/2014	ND		
EDB and DBCP (EPA 55	1.1)				•					
•										
Dibromochloropropane (DBCP)	ppt	200	1.7	10	5/1/2014	ND	5/1/2014	ND	Banned nematocide that may still be present in soils due to runoff/leaching from former use on	
									soybeans, cotton, vineyards, tornatoes, and tree indit	
	nnt	50	10	20	5/1/2014	ND	5/1/2014	ND	Discharge from petroleum refineries; underground gas tank leaks; banned nematocide that may still	
	ppi	00	10	20	0/1/2014		0/1/2014	NB	be present in soils due to runoff and leaching from grain and fruit crops	
Chlorophenoxy Herbicid	los (EPA	515 1								
		<u> </u>								
2,4,5-T	ppb	NA	NA	(0.2)	5/1/2014	ND	5/1/2014	ND		
2.4.5 TD (Silvey)	nnh	50	25	1	E/1/2014	ND	E/1/2014	ND	Desidue of hermod herbiside	
2,4,5-TP (Slivex)	phn	50	20	1	5/1/2014	ND	5/1/2014	ND		
2,4-D	ppb	70	20	10	5/1/2014	ND	5/1/2014	ND	Runoff from herbicide used on row crops, range land, lawns, and aquatic weeds	
2.4 DB	nnh	NA	ΝA	(2.0)	5/1/2014	ND	5/1/2014	ND		
2,4-06	ppp	INA	INA	(2.0)	5/1/2014	ND	5/1/2014	ND		
3,5-Dichlorobenzoic acid	ppb	NA	NA	(0.5)	5/1/2014	ND	5/1/2014	ND		
Acifluation	nnh	NIA	NIA	(0.2)	E/1/2014	ND	E/1/2014	ND		
Acindonen	phn	INA	INA	(0.2)	5/1/2014	ND	5/1/2014	ND		
Bentazon (BASAGRAN)	ppb	18	200	2	5/1/2014	ND	5/1/2014	ND	Runoff/leaching from herbicide used on beans, peppers, corp, peaputs, rice, and ornamental grasses	
	PP.*					· · -	•, •, = • • •			
Dalapon	ppb	200	790	10	5/1/2014	ND	5/1/2014	ND	Runoff from herbicide used on rights-of-way, and crops and landscape maintenance	
					= 11 10 0 1 1	9	5/4/0044			
Dicamba (BANVEL)	ррб	NA	NA	1.5	5/1/2014	ND	5/1/2014	ND		
Dichlorprop	ppb	NA	NA	(0.5)	5/1/2014	ND	5/1/2014	ND		
		_			= 11/0.011	10	5/4/0044			
DINOSED (DNBP)	ррр	/	14	2	5/1/2014	ND	5/1/2014	ND	Runoff from herbicide used on soybeans, vegetables, and fruits	
Pentachlorophenol (PCP)	ppb	1	0.3	0.2	5/1/2014	ND	5/1/2014	ND	Discharge from wood preserving factories, cotton and other insecticidal/herbicidal uses	
D'alessa		500	500		5/4/0044	ND	E (4 /004 4	ND	that to have a ff	
Picioram	ррр	500	500	1	5/1/2014	ND	5/1/2014	ND		
DCPA (total Mono & Diacid	nnh	ΝΔ	NΔ	(0.1)	5/1/2014	ND	5/1/2014	ND		
Degradates)	ррь	11/4	11/1	(0.1)	3/1/2014	ND	3/1/2014	ND		
Other Synthetic Organic	<u>ــــــــــــــــــــــــــــــــــــ</u>									
	3									
Dioxin (2,3,7,8-TCDD)	ppq	30	0.05	5	5/1/2014	ND	5/1/2014	ND	Emissions from waste incineration and other combustion; discharge from chemical factories	
Endethall	nnh	100	590	AE	E/1/2014	ND	E/1/2014	ND	Duraff from harbinide use for terrestrial and equatio weads, defailant	
	hhn	100	560	40	5/1/2014	שא	5/1/2014	UV	ולעווטוו ווטווו וופרטוטועע עשע וווידעוועזיאיז איז איז איז איז איז איז איז איז אי	
Glyphosate	ppb	700	900	25	5/1/2014	ND	5/1/2014	ND	Runoff from herbicide use	
Somivolotiles (EDA FOF (21									
Semivolatiles (EPA 525.2	<u>e</u>)									
2,4-Dinitrotoluene	ppb	NA	NA	5	5/1/2014	ND	5/1/2014	ND		
				-		• •-	- 1. 1			
Acenaphthylene	ppb	NA	NA	5	5/1/2014	ND	5/1/2014	ND		
alpha-Chlordane	ppb	NA	NA	(0.05)	5/1/2014	ND	5/1/2014	ND		

					Raw Source	e Water	Treated Water			
	I	State or			State Wate	r Project	Polonio Pass WTP			
Parameter	Units	Federal MCL [MRDL]	PHG (MCLG) [MRDLG]	State DLR (MRL)	Most Recent Sample Date	Result	Most Recent Sample Date	Result	Major Sources in Drinking Water	
Anthracene	daa	NA	NA	5	5/1/2014	ND	5/1/2014	ND		
	ppo		1.0.1	Ŭ	0,172011		0,1/2011			
Atrazine (AATREX)	ppb	1	0.15	0.5	5/1/2014	ND	5/1/2014	ND	Runoff from herbicide used on row crops and along railroad and highway right-of-ways	
Benzo (a) anthracene	ppb	NA	NA	10	5/1/2014	ND	5/1/2014	ND		
Benzo (a) pyrene	ppt	200	7	100	5/1/2014	ND	5/1/2014	ND	Leaching from linings of water storage tanks and distribution mains	
Benzo (b) fluoranthene	ppb	NA	NA	10	5/1/2014	ND	5/1/2014	ND		
	a a b	NIA	NIA	40	E/4/004.4	ND	E/4/204.4	ND		
Benzo (g,n,i) perviene	ррр	NA	NA	10	5/1/2014	ND	5/1/2014	ND		
Benzo (k) fluoranthene	ppb	NA	NA	10	5/1/2014	ND	5/1/2014	ND		
Bromacil (HYV/AR)	nnh	NΔ	ΝΔ	10	5/1/2014	ND	5/1/2014	ND		
	ρρυ	19/4	1974	10	3/1/2014	ND	3/ 1/2014	ND		
Butachlor	ppb	NA	NA	0.38	5/1/2014	ND	5/1/2014	ND		
Butylbenzylphthalate	ppb	NA	NA	10	5/1/2014	ND	5/1/2014	ND		
				(0.05)	5/4/0044	10	5/4/0044	10		
Catteine	ррб	NA	NA	(0.05)	5/1/2014	ND	5/1/2014	ND		
Chrysene	ppb	NA	NA	5	5/1/2014	ND	5/1/2014	ND		
Di (2 Ethylboyyl) phthalata (DEHP)	pph	4	10	2	5/1/2014	ND	5/1/2014	ND	Discharge from rubber and chemical factories: just ingradient in pasticides	
Di (2-Ethylitexyl) philialate (DEFF)	рро	4	12	3	5/1/2014	ND	3/1/2014			
Di-(2-Ethylhexyl) adipate	ppb	400	200	5	5/1/2014	ND	5/1/2014	ND	Discharge from chemical factories	
di-n-Butylphthalate	ddd	NA	NA	5	5/1/2014	ND	5/1/2014	ND		
				(2.1)	-///		- / / /			
Diazinon	ppb	NA	NA	(0.1)	5/1/2014	ND	5/1/2014	ND		
Dibenz (a,h) anthracene	ppb	NA	NA	5	5/1/2014	ND	5/1/2014	ND		
Diethylphthalate	nnh	NΔ	ΝΔ	5	5/1/2014	ND	5/1/2014	ND		
Distriyiphinalate	ρρυ	19/4	1974	5	3/1/2014	ND	3/ 1/2014	ND		
Dimethoate (CYGON)	ppb	NA	NA	(0.1)	5/1/2014	ND	5/1/2014	ND		
Dimethylphthalate	ddd	NA	NA	5	5/1/2014	ND	5/1/2014	ND		
Fluoranthene	ppb	NA	NA	5	5/1/2014	ND	5/1/2014	ND		
Fluorene	ppb	NA	NA	5	5/1/2014	ND	5/1/2014	ND		
gamma Chlordana	nnh	ΝΔ	ΝΔ	(0.05)	5/1/2014	ND	5/1/2014	ND		
gamma-Chiordane	рро	INA	NA	(0.03)	5/1/2014	ND	3/1/2014			
Hexachlorobenzene	ppb	1	0.03	0.5	5/1/2014	ND	5/1/2014	ND	Discharge from metal refineries and agricultural chemical factories; byproduct of chlorination reactions in wastewater	
Hexachlorocyclopentadiene	nnh	50	50	1	5/1/2014	ND	5/1/2014	ND	Discharge from chemical factories	
The water of the second s	ρρυ	50	50		3/1/2014	ND	3/1/2014	ND		
Indeno (1,2,3,c,d) Pyrene	ppb	NA	NA	10	5/1/2014	ND	5/1/2014	ND		
Isophorone	ppb	NA	NA	10	5/1/2014	ND	5/1/2014	ND		
						•		· · · =		
Metolachlor	ppb	NA	NA	(0.05)	5/1/2014	ND	5/1/2014	ND		
Metribuzin	ppb	NA	NA	(0.05)	5/1/2014	ND	5/1/2014	ND		
Molinate (ORDRAM)	ppb	20	1	2	5/1/2014	ND	5/1/2014	ND	Runoff/leaching from herbicide used on rice	

					Raw Source Water		Treated Water			
		State or			State Water Project		Polonio Pa	iss WTP		
		Federal	PHG	State	Most Recent		Most Recent			
		MCL	(MCLG)	DLR	Sample		Sample			
Parameter	Units	[MRDL]	[MRDLG]	(MRL)	Date	Result	Date	Result	Major Sources in Drinking Water	
Phenanthrene	ррр	NA	NA	5	5/1/2014	ND	5/1/2014	ND		
Propachlor	daa	NA	NA	0.5	5/1/2014	ND	5/1/2014	ND		
•										
Pyrene	ppb	NA	NA	0.5	5/1/2014	ND	5/1/2014	ND		
Simpating (PDINCED)	nnh	4	4	1	E/1/2014	ND	E/1/2014	ND	Harbielde runoff	
	ppp	4	4	1	5/1/2014	ND	5/1/2014	ND		
Thiobencarb (BOLERO) (c)	ppb	70 (k)	70	1	5/1/2014	ND	5/1/2014	ND	Runoff/leaching from herbicide used on rice	
				()						
trans-Nonachlor	ppb	NA	NA	(0.05)	5/1/2014	ND	5/1/2014	ND		
Trifluralin	daa	NA	NA	(0.1)	5/1/2014	ND	5/1/2014	ND		
INORGANIC CHEMICAL	.S									
Antimony, Total	ppb	6	20	6	5/1/2014	ND	5/1/2014	ND	Discharge from petroleum refineries; fire retardants; ceramics; electronics; solder	
Ashestos	MEL	7	7	0.2	5/1/2014	ND	5/1/2014	ND	Discharges of oil drilling wastes and from metal refineries: erosion of natural denosits	
Asbestos		1		0.2	3/1/2014	ND	3/1/2014	ND	Discharges of on unning wastes and norm metal remetes, erosion of natural deposits	
Barium, Total	ppb	1	2	0.1	5/1/2014	ND	5/1/2014	ND	Discharges of oil drilling wastes and from metal refineries; erosion of natural deposits	
Beryllium, Total	ppb	4	1	1	5/1/2014	ND	5/1/2014	ND	Discharge from metal refineries, coal-burning factories, and electrical, aerospace, defense ind.	
Cadmium, Total	ppb	5	0.04	1	5/1/2014	ND	5/1/2014	ND	Internal corrosion of galvanized pipes; erosion of natural deposits; discharge from electroplating and	
									industrial chemical factories, and metal reineres, runon from waste batteries and paints	
Chromium Total	nnh	50	(100)	10	E/1/2014	ND	E/1/2014	ND	Discharge from steel and pulp mills and obtame plating: gradien of patient deposite	
	ppp	50	(100)	10	5/1/2014	ND	5/1/2014	ND		
Conner Total (a)		1	0.2	0.05	E/1/2014	ND	E/1/2014	ND	Internal corrosion of household plumbing systems; erosion of natural deposits; leaching from wood	
	ррп	(e) (h)	0.3	0.05	5/1/2014	ND	5/1/2014	ND	preservatives	
Cuenide	nnh	150	150	100	E/1/2014	ND	E/1/2014	ND	Discharge from steel/metal, plastic and fartilizer fasteriae	
Cyanide	ppp	150	150	100	5/1/2014	ND	5/1/2014	ND		
Hevevelent Chromium	nnh	10	0.02	1	8/18/2014	ND	9/19/2014	ND	Discharge from electroplating factories, leather tanneries, wood preservation, chemical synthesis,	
	php	10	0.02	I	0/10/2014	ND	0/10/2014	ND	refractory production, and textile manufacturing facilities; erosion of natural deposits	
		NIA	NIA	(2)	E/1/2014	ND	E/1/2014	ND		
	ррп	INA	INA	(2)	5/1/2014	ND	5/1/2014	ND		
Iron, Total	ppb	300	NA	100	5/1/14	ND	5/1/14	ND	Leaching from natural deposits; industrial wastes	
Lead, Total	ppb	NA (e)	0.2	5	5/1/2014	ND	5/1/2014	ND	Internal corrosion of household water plumbing systems; discharges from industrial manufacturers;	
Manganese, Total	ppb	50 (h)	NA	20	5/1/2014	ND	5/1/2014	ND		
					5///00///	10	= 11 /0.0 1 1			
Mercury	ppp	2	1.2	1	5/1/2014	ND	5/1/2014	ND	Erosion of natural deposits; discharge from refineries and factories; runoff from landfills and cropland	
Nickel, Total	ppb	100	12	10	5/1/2014	ND	5/1/2014	ND	Erosion of natural deposits; discharge from metal factories	
									Duroff and leashing from fartilizer user leashing from continitable and sources areaion of natural	
Nitrate, NO3	ppm	45 (I)	45	2	5/1/2014	ND	5/1/2014	ND	denosits	
Nitrite, Nitrogen	ppm	1	1	0.4	5/1/2014	ND	5/1/2014	ND	Runoff and leaching from fertilizer use; leaching from septic tanks and sewage; erosion of natural	
									Perchlorate is an inorganic chemical used in solid rocket propellant, fireworks, explosives, flares,	
Perchlorate (f)	nnh	6	6	4	5/1/2014	ND	5/1/2014	ND	matches, and a variety of industries. It usually gets into drinking water as a result of environmental	
	hhn	0	0	4	5/1/2014		5/1/2014		contamination from historic aerospace or other industrial operations that used or use, store, or	
									dispose of perchlorate and its salts.	
Selenium, Total	ppb	50	30	5	5/1/2014	ND	5/1/2014	ND	Discharge from petroleum, glass, and metal refineries; erosion of natural deposits; discharge from	
Ciluar Tatal	a - b	400 (1)	N/A	40	El4/0044	ND	E/4/0014	ND	Industrial Disabarana	
	aqq	1 UU (N)	NA	10	3/1/2014		3/1/2014	עא ן		

							•		•
					Raw Source Water State Water Project		Treated Water Polonio Pass WTP		
		State or							
		Federal MCL	PHG (MCLG)	State DLR	Most Recent Sample		Most Recent Sample		
Parameter	Units	[MRDL]	[MRDLG]	(MRL)	Date	Result	Date Result		Major Sources in Drinking Water
Thallium, Total	ppb	2	0.1	1	5/1/2014	ND	5/1/2014	ND	Leaching from ore-processing sites; discharge from electronics, glass, and drug factories
Zinc. Total	maa	5 (h)	NA	0.05	5/1/2014	ND	5/1/2014	ND	Runoff/leaching from natural deposits; industrial wastes

ABBREVIATIONS AND FOOTNOTES

Abbreviations

DCPA	Dimethyl Tetrachloroterephthalate	NC	Not Collected
DLR	Detection Limits for purposes of Reporting	ND	None Detected
MCL	Maximum Contaminant Level	pCi/L	picoCuries per Liter
MCLG	Maximum Contaminant Level Goal	PHG	Public Health Goal
MFL	Million Fibers per Liter	ppb	Parts per billion
MRDL	Maximum Residual Disinfectant Level	ppm	Parts per million
MRDLG	Maximum Residual Disinfectant Level Goal	ppt	Parts per trillion
MRL	Minimum Reporting Limit	ppq	Parts per quadrillion
NA	Not Applicable		

Footnotes

- Fecal Coliform/E. coli MCL: The occurrence of two consecutive total coliform samples, one of which (a) contains Fecal/E. coli constitutes an acute MCL violation
- (b) Total Coliform MCL: No more than 5% of the monthly samples may be total coliform positive
- Copper, MTBE, and thiobencarb have both primary and secondary standards.
- (c) (d) MTBE has a secondary MCL of 5 ppb.
- Lead and copper are regulated as a Treatment Technique under the Lead and (e) Copper Rule. It requires systems to take water samples at the consumers' tap. The action levels, which trigger water systems into taking treatment steps if exceeded in more than 10% of the tap water samples, are 1.3 ppm for copper and 15 ppb for lead.
- (f) The State primary MCL for perchlorate was set at 6 ppb effective October 18, 2007. Perchlorate reporting level is 2 ppb.
- (g) 1,2,3-Trichloropropane is an unregulated contaminant with a notification level of 0.005 ppb.
- (h) Secondary MCL.
- (i) Gross beta particle activity MCL is 4 millirem/year annual dose equivalent to the total body or any internal organ. 50pCi/L is used as a screening level.
- (i) State MCL is 45 mg/L as NO3, which equals 10 mg/L as N.
- Thiobencarb has a secondary MCL of 1 ppb. (k)
- (I) State MCL is 45 mg/L as NO3, which equals 10 mg/L as N.