

2010 Regulated Health Risk Contaminants

Inorganics- Regulated at the Treatment Plant

Substance	Unit	MCLG	MCL	MAX CONC	RANGE	Likely Source	Meets EPA Standards	Violations?	COMMENTS
Arsenic	ppb	none	50	<2			YES	NO	
Antimony	ppb	6	6	<1			YES	NO	
Barium	ppm	2	2	0.027	0.025 - 0.027	Erosion of natural deposits	YES	NO	
Beryllium	ppb	4	4	<1			YES	NO	
Cadmium	ppb	5	5	<1			YES	NO	
Chromium	ppb	100	100	<1			YES	NO	
Cyanide	ppb	200	200	<5			YES	NO	
Fluoride	ppm	4	4	1.24	<0.20 - 1.24		YES	NO	Fluoride is added to promote strong teeth
Mercury	ppb	2	2	<0.05			YES	NO	
Nitrate	N, ppm	10	10	0.08	0.020 - 0.083	Erosion of natural deposits	YES	NO	
Nitrite	N, ppm	1	1	0.002	0.001 - 0.002	Erosion of natural deposits	YES	NO	
Lead	ppb	n/a	15-AL	<1			YES	NO	
Selenium	ppb	50	50	<2			YES	NO	
Thallium	ppb	0.5	2	<1			YES	NO	
Bromate	ppb	0	10	<1			YES	NO	
Turbidity	NTU	n/a	TT	0.60	0.03 - 0.60		YES	NO	At least 95% of monthly samples had turbidity of \leq 0.30 NTU

Radiological- Regulated at the Treatment Plant

Substance	Unit	MCLG	MCL	MAX CONC	RANGE	Likely Source	Meets EPA Standards	Violations?	COMMENTS
Gross Alpha, inc Radon & Uranium	pCi/L	0	15	ND	ND	Erosion of natural deposits	YES	NO	2010 samples, next sampling event 2016
Radium-228	pCi/L	0	5	ND	ND		YES	NO	2010 samples, next sampling event 2016
Beta emitters	pCi/L	0	50	1.8	1.8	Decay of natural & man-made deposits	YES	NO	2010 samples, next sampling event 2016

2010 Regulated Health Risk Contaminants

Organics- Regulated at the Treatment Plant

Substance	Units	MCLG	MCL	AVERAGE	RANGE	Likely Source	Meets EPA Standards	Violations?
Regulated VOC	ppb							
Benzene	ppb	0	5	ND	ND		YES	NO
Carbon Tetrachloride	ppb	0	5	ND	ND		YES	NO
Chlorobenzene	ppb	100	100	ND	ND		YES	NO
o-Dichlorobenzene	ppb	600	600	ND	ND		YES	NO
p-Dichlorobenzene	ppb	75	75	ND	ND		YES	NO
1,2-Dichloroethane	ppb	0	5	ND	ND		YES	NO
1,1-Dichloroethylene	ppb	7	7	ND	ND		YES	NO
cis-1,2-Dichloroethylene	ppb	70	70	ND	ND		YES	NO
trans-1,2-Dichloroethylene	ppb	100	100	ND	ND		YES	NO
Dichloromethane	ppb	0	5	ND	ND		YES	NO
1,2-Dichloropropane	ppb	0	5	ND	ND		YES	NO
Ethylbenzene	ppb	700	700	ND	ND		YES	NO
Styrene	ppb	100	100	ND	ND		YES	NO
Tetrachloroethylene	ppb	0	5	ND	ND		YES	NO
1,2,4-Trichlorobenzene	ppb	70	70	ND	ND		YES	NO
1,1,1-Trichloroethane	ppb	200	200	ND	ND		YES	NO
1,1,2-Trichloroethane	ppb	3	5	ND	ND		YES	NO
Trichloroethylene	ppb	0	5	ND	ND		YES	NO
Toluene	ppb	1	1	ND	ND		YES	NO
Vinyl Chloride	ppb	0	2	ND	ND		YES	NO
Xylene	ppb	10	10	ND	ND		YES	NO
38 Unregulated VOC	ppb	n/a	n/a	ND	ND		n/a	n/a
Chloroform	ppb	n/a	n/a	6.4	3.8 - 8.9	By-product of drinking water chlorination	n/a	n/a
Dichlorobromomethane	ppb	n/a	n/a	3.6	2.6 - 4.6	By-product of drinking water chlorination	n/a	n/a
Dibromochloromethane	ppb	n/a	n/a	1.1	0.9 - 1.3	By-product of drinking water chlorination	n/a	n/a
Bromoform	ppb	n/a	n/a	ND	ND	By-product of drinking water chlorination	n/a	n/a

2010 Regulated Nonhealth Risk Contaminants				
Contaminant, units	MCLG	MCL	AVERAGE	RANGE
pH	n/a	6.5-8.5	7.6	6.6-8.5
Chloride, ppm	n/a	250	23	17-43
Color, color units	n/a	15	0	0
Copper,ppb	n/a	1300	2	ND-5
Iron, ppb	n/a	300	9	ND-31
Manganese, ppb	n/a	50	12	ND-56
Silver, ppb	n/a	100	<1	ND
Sulfate, ppm	n/a	500 ^(proposed)	40	31-62
Total Dissolved Solids, ppm	n/a	500	148	125-194
Zinc, ppm	n/a	5	0.21	0.15-0.28

based on weekly (Fe, Mn) and monthly data.

2010 Miscellaneous Analyses of Finished Water at Water Treatment Plant					
Contaminant, units		MCLG	MCL	AVERAGE	RANGE
Alkalinity	CaCO3 ppm	n/a	n/a	38	21-61
Aluminum	ppb	n/a	50-200	50	20-101
Ammonia	ppm	n/a	n/a	0.58	0.49-0.72
Bromide	ppb	n/a	n/a	17	ND -50
Calcium	ppm	n/a	n/a	29	18-42
Hardness	CaCO3 ppm	n/a	n/a	77	52-105
Lead	ppm	n/a	n/a	<1	<1
Magnesium	ppm	n/a	n/a	1.8	1.0-3.4
Molybdate	ppb	n/a	n/a	<1	<1
Nickel	ppb	n/a	n/a	<1	<1
Ortho-Phosphorus	P, ppm	n/a	n/a	0.21	0.18-0.26
Potassium	ppm	n/a	n/a	2.18	1.59 - 2.18
Silica	ppm	n/a	n/a	4.9	2.8-8.0
Sodium	ppm	n/a	n/a	14.0	5.7-33.8
Specific Conductance	uhmo/cm	n/a	n/a	231	195-307
Vanadium	ppb	n/a	n/a	<2	<2

Substance	Unit	MCLG	MCL	MAX CONC	RANGE
Giardia	#/L	0	n/a	<0.047	<0.047
Cryptosporidium	#/L	0	TT	0.047	<0.047-0.047

Glossary of Terms

Term	Definition
MCLG	Maximum Contaminant Level Goal
MCL	Maximum Contaminant Level
ppb	parts per billion or micrograms per liter (ug/L)
ppm	parts per million or milligrams per liter (mg/L)
NTU	Nephelometric Turbidity Units
pCi/L	picocuries per liter (a measure of radioactivity)
VOC	Volatile Organic Compound
AL	Action Level
ICR	Information Collection Rule
Finished Water	Treated water, drinking water
Source Water	Water prior entering the treatment plant, reservoir water
TT	Treatment Technique
MRDL	Maximum Residual Disinfection Level