

DRINKING WATER QUALITY STANDARDS FOR SURFACE WATER TREATMENT PLANTS

January 2004 Based on R.61-58, September 2003 version

Unless otherwise specified, the unit of measure for each of the maximum contaminant levels (MCL) listed in the following tables is in milligrams per liter (mg/l).

Table 1					
Primary Drinking Water Parameters					
Inorganic Chemicals (IOC)					
Contaminant	MCL	Contaminant	MCL		
Arsenic Asbestos (10 μm) Antimony Barium Beryllium Cadmium Chromium (total) Copper Cyanide (as free Cyanide)	0.010 ¹ 7 MFL ² 0.006 2.0 0.004 0.005 0.1 TT ³ 0.2	Fluoride Lead Mercury Nitrate Nitrite Total Nitrate and Nitrite Selenium Thallium	4.0 TT ³ 0.002 10 1 10 0.05 0.002		

Primary Drinking Water Parameters (Continued)					
Synthetic Organic Chemicals					
Contaminant	MCL	Contaminant	MCL		
Alachlor Atrazine Carbofuran Chlordane Dibromochloropropane (DBCP) Ethylene dibromide (EDB) Heptachlor Heptachlor epoxide Lindane Methoxychlor PCBs Pentachlorophenol Toxaphene Benzo(a)pyrene (PAHs)	0.002 0.003 0.04 0.002 0.0002 0.0002 0.0005 0.0002 0.0002 0.0002 0.001 0.0003 0.0002	Dalapon Di(2-ethylhexyl)adipate Di(2-ethylhexyl)phthalate Dinoseb Diquat Endothall Endrin Glyphosate Hexachlorobenzene Hexachlorobenzene Hexachlorocyclopentadiene Oxamyl (vydate) Picloram Simazine 2,3,7,8-TCDD (Dioxin) 2,4-D 2,4,5-TP (Silvex)	0.2 0.4 0.006 0.007 0.02 0.1 0.002 0.7 0.001 0.05 0.2 0.5 0.004 30.0 pg/L ⁴ 0.07 0.05		
Volatile Organic Chemicals (VOC)					
Contaminant	MCL	Contaminant	MCL		
Benzene Carbon tetrachloride cis -1,2-Dichloroethylene Dichloromethane Ethylbenzene Monochlorobenzene (chlorobenzene) o-Dichlorobenzene para-Dichlorobenzene Styrene Tetrachloroethylene Toluene	0.005 0.005 0.07 0.005 0.7 0.1 0.6 0.075 0.1 0.005 1	trans-1.2-Dichloroethylene Trichloroethylene Vinyl chloride Xylenes (total) 1,1-Dichloroethylene 1,1,1-Trichloroethane 1,2-Trichloroethane 1,2-Dichloroethane 1,2-Dichloropropane 1,2,4-Trichlorobenzene	0.1 0.005 0.002 10 0.007 0.2 0.005 0.005 0.005 0.005 0.07		

Primary Drinking Water Parameters (Continued)			
Naturally Occurring Radionuclides			
Contaminant	MCL		
Radium 226 and Radium 228 Gross Alpha particle activity (including radium-226 but excluding radon and uranium)	5 pCi/L ⁵ 15 pCi/L ⁵		
Man-Made Radionuclides			
Contaminant	MCL		
Beta particle and photon activity			
Microbiological			
Contaminant	MCL		
Giardia Lamblia Legionella Heterotrophic Plate Count Total Coliform Turbidity Viruses	TT ⁷ TT ⁷ TT ⁷ * ⁸ TT ⁷ TT ⁷		

Table 2					
Secondary Drinking Water Parameters					
Contaminant	MCL	Contaminant	MCL		
Aluminum Chloride Color Copper Corrosivity Fluoride Foaming Agents	0.05 to 0.2 250 15 color units 1 Non-Corrosive 2.0 0.5	Iron Manganese pH Silver Sulfate Total Dissolved Solids (TDS) Zinc Odor	0.3 0.05 6.5 - 8.5 0.1 250 500 5 3 t.o.n. ⁹		

Table 3				
Other Water Quality Parameters				
Contaminant	MCL			
Alkalinity	None			
Calcium Hardness	None			
Conductivity	None			
Sodium	None ¹⁰			
Temperature	None			

^{1.} The MCL for arsenic is 0.05 milligrams per liter (mg/L) for all public water systems until January 23, 2006.

- 2. The unit of measure is million fibers/liter (longer than 10μ m).
- 3. Treatment Technique as outlined in the Lead and Copper Rule.
- 4. The unit of measure is in picograms per liter.
- 5. The unit of measure is in picocuries per liter
- 6. The unit of measure is in millirem per year
- 7. Treatment Technique as outlined in the Surface Water Treatment Rule.
- 8. In accordance with the Total Coliform Rule, no more than 5% of the samples per month may be positive. For systems collecting fewer than 40 samples per month, no more than 1 sample per month may be positive.
- 9. Threshold odor number

Drinking Water Quality Standards for Surface Water Treatment Plants January 2004 Page 5

10. There is no MCL for sodium. However, community water systems are required to monitor for sodium (annually for systems which utilize surface water and every three years for system utilizing groundwater) and notify the appropriate local public health officials of the sodium levels within three months of receiving the results.