

Required Initial Source Water Quality Testing List

Table 6-1 and Table 6-2 summarize the contaminants and the maximum contaminant level (MCL) which applies to **Public Community, Domestic Bottled Water, Non-Transient Non-Community** water supplies, and for commercial or industrial groundwater withdrawals needing a permit. These tables also apply to the same existing water sources which have been deepened or hydrofractured. Water quality samples taken using Table 6-1 and 6-2 shall be labeled as "new source." These samples may **not** be considered routine or compliance samples for existing water systems.

Table 6-1 - CONTAMINANT STANDARDS

CONTAMINANT	STANDARD MCL as noted (mg/l unless otherwise noted) ¹	Initial Source Testing Required
Microbiological		
MCL		
A. Total coliform bacteria	Test for absence or presence in the sample collected.	Yes
B. Fecal Coliform or <i>Escherichia coli</i> (E. coli)	Negative	Yes
<i>Giardia lamblia</i>	----	Only if MPA testing required
<i>Cryptosporidium</i>	----	Only if MPA testing required
Turbidity		
5 NTU trigger for groundwater sources		Yes
Primary Inorganic Chemicals		
MCL		
Arsenic	0.010 mg/l	Yes
Barium	2 mg/l	Yes
Cadmium	0.005 mg/l	Yes
Chromium	0.1 mg/l	Yes
Copper	1.3 mg/l (Action Level)	Yes
Fluoride	4.0 mg/l	Yes
Lead	0.015 mg/l (Action Level)	Yes
Mercury	0.002 mg/l	Yes
Nitrate	10.0 (as Nitrogen)	Yes
Nitrite	1.0 (as Nitrogen)	Yes
Total nitrate & nitrite	10.0 (as Nitrogen)	Yes
Selenium	0.05 mg/l	Yes
Antimony	0.006 mg/l	Yes

	Beryllium	0.004 mg/l	Yes
	Cyanide (as free cyanide)	0.2 mg/l	Yes
	Nickel	0.1 mg/l	Yes
	Thallium	0.002 mg/l	Yes
	Volatile Organic Chemicals	MCL	
	Vinyl Chloride	0.002 mg/l	Yes
	Benzene	0.005 mg/l	Yes
	Carbon Tetrachloride	0.005 mg/l	Yes
	1,2-Dichloroethane	0.005 mg/l	Yes
	Trichloroethylene	0.005 mg/l	Yes
	para-Dichlorobenzene	0.075 mg/l	Yes
	1,1-Dichloroethylene	0.007 mg/l	Yes
	1,1,1-Trichloroethane	0.2 mg/l	Yes
	cis-1,2-Dichloroethylene	0.07 mg/l	Yes
	1,2-Dichloropropane	0.005 mg/l	Yes
	Ethylbenzene	0.7 mg/l	Yes
	Monochlorobenzene	0.1 mg/l	Yes
	o-Dichlorobenzene	0.6 mg/l	Yes
	Styrene	0.1 mg/l	Yes
	Tetrachloroethylene	0.005 mg/l	Yes
	Toluene	1 mg/l	Yes
	trans-1,2-Dichloroethylene	0.1 mg/l	Yes
	Xylenes (total)	10 mg/l	Yes
	Dichloromethane	0.005 mg/l	Yes
	1,2,4-Trichlorobenzene	0.07 mg/l	Yes
	1,1,2-Trichloroethane	0.005 mg/l	Yes
	Synthetic Organic Chemicals	MCL	
	Alachlor	0.002 mg/l	Yes
	Atrazine	0.003 mg/l	Yes
	Carbofuran	0.04 mg/l	Yes
	Chlordane	0.002 mg/l	Yes
	2,4-D	0.07 mg/l	Yes
	Ethylene Dibromide	0.00005 mg/l	Yes only for groundwater sources
	Heptachlor	0.0004 mg/l	Yes
	Heptachlor Epoxide	0.0002 mg/l	Yes
	Lindane	0.0002 mg/l	Yes
	Methoxychlor	0.04 mg/l	Yes
	Polychlorinated biphenols	0.0005 mg/l	Yes
	Pentachlorophenol	0.001 mg/l	Yes

	Toxaphene	0.003 mg/l	Yes
	2,4,5-TP Silvex	0.05 mg/l	Yes
	Benzo[a]pyrene	0.0002 mg/l	Yes
	Di(2-ethylhexyl) adipate	0.4 mg/l	Yes
	Di(2-ethylhexyl) phthalate	0.006 mg/l	Yes
	Dinoseb	0.007 mg/l	Yes
	Endrin	0.002 mg/l	Yes
	Hexachlorobenzene	0.001 mg/l	Yes
	Hexachlorocyclopentadiene	0.05 mg/l	Yes
	Oxamyl (Vydate)	0.2 mg/l	Yes
	Picloram	0.5 mg/l	Yes
	Simazine	0.004 mg/l	Yes
	Radionuclides	MCL	
	Gross Alpha Particle Activity (including radium-226 but excluding radon and uranium)	15 pCi/l	Yes
	Combined Radium-226 and Radium-228	5 pCi/l	Yes
	Uranium (only EPA Method 200.8)	20 ug/l (a)	Yes

(a) Only EPA Method 200.8 ICP for uranium shall be used to establish compliance

**Table 6-2
SECONDARY CONTAMINANT STANDARDS**

	CONTAMINANT	STANDARD	INITIAL SOURCE TESTING REQUIRED
	Chloride	250 mg/l	Yes
	Color	15 color units	Yes
	Corrosivity	Non-corrosive	Yes
	Iron	0.3 mg/l	Yes
	Manganese	0.05 mg/l	Yes
	Odor	3 threshold odor number	Yes
	pH	6.5 – 8.5	Yes
	Sodium	250 mg/l	Yes
	Total dissolved solids (TDS)	500 mg/l	Yes

If any discrepancy exists between the values in Table 6-1, with the exception of nickel and uranium, and the referenced sections in 40 CFR, Part 141, the MCLs in 40 CFR, Part 141 shall apply.

If any discrepancy exists between the values in Table 6-2, with the exception of sodium and aluminum, and the referenced sections in 40 CFR, Part 143, the MCLs in 40 CFR, Part 143 shall apply.

This guidance sheet and related environmental information are available electronically via the internet. For information visit us through the Vermont Homepage at <http://www.vermont.gov> or visit DWGPD directly at <http://www.vermontdrinkingwater.org>

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