Constituent	Unit	AS	CS	HHS
Arsenic (Trivalent, dissolved)	µg/L	$340 \times 1.0^* = 340$	148 x 1.0*=148 ~~340 x 1.0*=148~~	NA
Boron (total)	mg/L	40.1	7.6	NA
Cadmium (dissolved)	µg/L	$\exp[A + B\ln(H)] \times \{1.138672 - [(\ln H)(0.041838)]\}^*$ where A = -3.6867 and B = 1.128	$\exp[A + B\ln(H)] \times \{1.101672 - [(\ln H)(0.041838)]\}^*$ where A = -2.715 and B = 0.7852	NA
Chromium (Hexavalent, total)	µg/L	16	11	NA
Chromium (Trivalent, dissolved)	µg/L	$\exp[A + B\ln(H)] \times 0.316^*$ where A = 3.7256 and B = 0.819	$\exp[A + B\ln(H)] \times 0.860^*$ where A = 0.6848 and B = 0.819	NA
Copper (dissolved)	µg/L	$\exp[A + B\ln(H)] \times 0.960^*$ where A = -1.700 and B = 0.9422	$\exp[A + B\ln(H)] \times 0.960^*$ where A = -1.702 and B = 0.8545	NA

Cyanide**	µg/L	22	5.2	NA
Fluoride (total)	µg/L	$\exp[A+B1n(H)]$ where A = 6.7319 and B = 0.5394	$\exp[A+B1n(H)]$, but must~~shall~~ not exceed 4.0 mg/L where A = 6.0445 and B = 0.5394	NA
Lead (dissolved)	µg/L	$\exp[A+B1n(H)]\times$ {1.46203−[(1nH) (0.145712)]}* where A = -1.055 and B =1.273	$\exp[A+B1n(H)]\times$ {1.46203−[(1nH) (0.145712)]}* where A = -4.003 and B = 1.273	NA
Manganese (dissolved)	µg/L	$\exp[A+B1n(H)]\times$ 0.9812* where A = 4.9187 and B = 0.7467	$\exp[A+B1n(H)]\times$ 0.9812* where A = 4.0635 and B = 0.7467	NA
Nickel (dissolved)	µg/L	$\exp[A+B1n(H)]\times$ 0.998* where A = 2.255 and B = 0.846	$\exp[A+B1n(H)]\times$ 0.997* where A = 0.0584 and B = 0.846	NA
Selenium (dissolved)	µg/L	NA	5.0	NA
TRC	µg/L	19	11	NA
Zinc (dissolved)	µg/L	$\exp[A+B1n(H)]\times$ 0.978* where A = 0.884 and B = 0.8473	$\exp[A+B1n(H)]\times$ 0.986* where A = 0.884 and B = 0.8473	NA

Benzene	µg/L	3900	800	310
Chlorobenzene	mg/L	NA	NA	3.2
2.4-Dimethylphenol	mg/L	NA	NA	8.7
2,4-Dinitrophenol	mg/L	NA	NA	2.8
Endrin	µg/L	0.086	0.036	NA
Ethylbenzene	µg/L	150	14	NA
Hexachloroethane	µg/L	NA	NA	6.7
Methylene chloride	mg/L	NA	NA	2.6
Parathion	µg/L	0.065	0.013	NA
Pentachlorophenol	µg/L	$\exp B([pH]+A)$ where A = -4.869 and B = 1.005	$\exp B([pH]+A)$ where A = -5.134 and B = 1.005	NA
Toluene	µg/L	2000	610	51.0
Trichloroethylene	µg/L	NA	NA	370
Xylene(s)	µg/L	1200	490	NA

where:

NA = Not Applied

exp[x] = base of natural logarithms raised to the x-power

ln(H) = natural logarithm of hardness in mg/L as $CaCO_3$~~Hardness~~

* = conversion factor multiplier for dissolved metals

** = standard to be evaluated using either of the following USEPA approved methods, incorporated by reference at 35 Ill. Adm. Code 301.106~~302.510~~: Method OIA-1677, DW: Available Cyanide by Flow Injection, Ligand Exchange, and Amperometry, January 2004, Document Number EPA-821-R-04-001; or Cyanide Amenable to Chlorination, Standard Methods 4500-CN-G (40 CFR 136.3).