TT. "toxic pollutant" means a water contaminant or combination of water contaminants in concentration(s) which, upon exposure, ingestion, or assimilation either directly from the environment or indirectly by ingestion through food chains, will unreasonably threaten to injure human health, or the health of animals or plants which are commonly hatched, bred, cultivated or protected for use by man for food or economic benefit. As used in this definition injuries to health include death, histopathologic change, clinical symptoms of disease, behavioral abnormalities, genetic mutation, physiological malfunctions or physical deformations in such organisms or their offspring. In order to be considered a toxic pollutant a contaminant must be one or a combination of the potential toxic pollutants listed below and be at a concentration shown by scientific information currently available to the public to have potential for causing one or more of the effects listed above.

Any water contaminant or combination of the water contaminants in the list below creating a lifetime risk of more than one cancer per 100,000 exposed persons is a toxic pollutant.

- acrolein
- acrylonitrile
- aldrin
- benzene
- benzidine
- carbon tetrachloride
- chlordane
- chlorinated benzenes
  - monochlorobenzene
  - hexachlorobenzene
  - pentachlorobenzene
  - 1,2,4,5-tetrachlorobenzene
- chlorinated ethanes
  - 1,2-dichloroethane
  - hexachloroethane
  - 1,1,2,2-tetrachloroethane
  - 1,1,1-trichloroethane
  - 1,1,2-trichloroethane
- chlorinated phenols
  - 2,4-dichlorophenol
  - 2,4,5-trichlorophenol
  - 2,4,6-trichlorophenol
- chloroalkyl ethers
  - bis (2-chloroethyl) ether

- bis (2-chloroisopropyl) ether
- bis (chloromethyl) ether
- chloroform
- DDT
- dichlorobenzene
- dichlorobenzidine
- 1,1-dichloroethylene
- dichloropropenes
- dieldrin
- 2,4-dinitrotoluene
- diphenylhydrazine
- endosulfan
- endrin
- ethylbenzene
- halomethanes
  - bromodichloromethane
  - bromomethane
  - chloromethane
  - dichlorodifluoromethane
  - dichloromethane
  - tribromomethane
  - trichlorofluoromethane
- heptachlor
- hexachlorobutadiene
- hexachlorocyclohexane (HCH)
  - alpha-HCH
  - beta-HCH
  - gamma-HCH
  - technical HCH
- hexachlorocyclopentadiene
- isophorone
- nitrobenzene
- nitrophenols
  - 2,4-dinitro-o-cresol
  - dinitrophenols
- nitrosamines
  - N-nitrosodiethylamine
  - N-nitrosodimethylamine
  - N-nitrosodibutylamine
  - N-nitrosodiphenylamine
  - N-nitrosopyrrolidine
- pentachlorophenol
- phenol
- phthalate esters
  - dibutyl phthalate

di-2-ethylhexyl phthalate
diethyl phthalate
dimethyl phthalate
polychlorinated biphenyls (PCB's)
polynuclear aromatic hydrocarbons (PAH)
anthracene
3,4-benzofluoranthene
benzo (k) fluoranthene
fluoranthene
fluorene
phenanthrene
pyrene
tetrachloroethylene
toluene
toxaphene
trichloroethylene
vinyl chloride
xylenes
o-xylene
m-xylene
p-xylene

1,1-dichloroethane
ethylene dibromide (EDB)
cis-1,2-dichloroethylene
trans-1,2-dichloroethylene
naphthalene
1-methylnaphthalene
2-methylnaphthalene
benzo-a-pyrene

[2-18-77, 6-26-80, 7-2-81, 1-29-82, 3-3-86]

3103. STANDARDS FOR GROUND WATER OF 10,000 mg/l TDS CONCENTRATION OR LESS.

The following standards are the allowable pH range and the maximum allowable concentration in ground water for the contaminants specified unless the existing condition exceeds the standard or unless otherwise provided in Section 3109.D. Regardless of whether there is one contaminant or more than one contaminant present in ground water, when an existing pH or concentration of any water contaminant exceeds the standard specified in Subsection A, B, or C, the existing pH or concentration shall be the allowable limit, provided that the discharge at such concentrations will not result in concentrations at any place of withdrawal for present or reasonably foreseeable future use in excess of the standards of this Section.

These standards shall apply to the dissolved portion of the contaminants specified with a definition of dissolved being that given in the publication "Methods for Chemical Analysis of Water and Waste of the U.S. Environmental Protection Agency," with the exception that standards for mercury, organic compounds and non-aqueous phase liquids shall apply to the total unfiltered concentrations of the contaminants. [2-18-77, 11-17-83, 3-3-86, 12-1-95]

A. Human Health Standards-Ground water shall meet the standards of Subsection A and B unless otherwise provided. If more than one water contaminant affecting human health is present, the toxic pollutant criteria as set forth in the definition of toxic pollutant in Section 1101 for the combination of contaminants, or the Human Health Standard of Section 3103.A. for each contaminant shall apply, whichever is more stringent.

Non-aqueous phase liquid shall not be present floating atop of or immersed within ground water, as can be reasonably measured.

Arsenic (As)	0.1 mg/l
Barium (Ba)	1.0 mg/l
Cadmium (Cd)	0.01 mg/l
Chromium (Cr)	0.05 mg/l
Cyanide (CN)	0.2 mg/l
Fluoride (F)	1.6 mg/l
Lead (Pb)	0.05 mg/l
Total Mercury (Hg)	0.002 mg/l
Nitrate (NO3 as N)	10.0 mg/l
Selenium (Se)	0.05 mg/l
Silver (Ag)	0.05 mg/l
Uranium (U)	5.0 mg/l
Radioactivity: Combined Radium-226 & Radium-228	30.0 pCi/l
Benzene	0.01 mg/l
Polychlorinated biphenyls (PCB's)	0.001 mg/l
Toluene	0.75 mg/l
Carbon Tetrachloride	0.01 mg/l
1,2-dichloroethane (EDC)	0.01 mg/l
1,1-dichloroethylene (1,1-DCE)	0.005 mg/l
1,1,2,2-tetrachloroethylene (PCE)	0.02 mg/l
1,1,2-trichloroethylene (TCE)	0.1 mg/l
ethylbenzene	0.75 mg/l
total xylenes	0.62 mg/l
methylene chloride	0.1 mg/l

chloroform	0.1 mg/l
1,1-dichloroethane	0.025 mg/l
ethylene dibromide (EDB)	0.0001 mg/l
1,1,1-trichloroethane	0.06 mg/l
1,1,2-trichloroethane	0.01 mg/l
1,1,2,2-tetrachloroethane	0.01 mg/l
vinyl chloride	0.001 mg/l
PAHs: total naphthalene plus monomethylnaphthalenes	0.03 mg/l
benzo-a-pyrene	0.0007 mg/l

[2-18-77, 1-29-82, 3-3-86, 12-1-95]

B. Other Standards for Domestic Water Supply

Chloride (Cl)	250.0 mg/l
Copper (Cu)	1.0 mg/l
Iron (Fe)	1.0 mg/l
Manganese (Mn)	0.2 mg/l
Phenols	0.005 mg/l
Sulfate (SO4)	600.0 mg/l
Total Dissolved Solids (TDS)	1000.0 mg/l
Zinc (Zn)	10.0 mg/l
pH	between 6 and 9

[2-18-77]

C. Standards for Irrigation Use - Ground water shall meet the standards of Subsection A, B, and C unless otherwise provided.

Aluminum (Al)	5.0 mg/l
Boron (B)	0.75 mg/l
Cobalt (Co)	0.05 mg/l
Molybdenum (Mo)	1.0 mg/l
Nickel (Ni)	0.2 mg/l

[2-18-77]