

**SWRCB Minimum Levels in ppb (µg/L)**

The Minimum Levels (MLs) in this appendix are for use in reporting and compliance determination purposes in accordance with section 2.4 of the State Implementation Policy. These MLs were derived from data for priority pollutants provided by State certified analytical laboratories in 1997 and 1998. These MLs shall be used until new values are adopted by the SWRCB and become effective. The following tables (Tables 2a - 2d) present MLs for four major chemical groupings: volatile substances, semi-volatile substances, inorganics, and pesticides and PCBs.

| Table 2a - VOLATILE SUBSTANCES* | GC  | GCMS |
|---------------------------------|-----|------|
| 1,1 Dichloroethane              | 0.5 | 1    |
| 1,1 Dichloroethene              | 0.5 | 2    |
| 1,1,1 Trichloroethane           | 0.5 | 2    |
| 1,1,2 Trichloroethane           | 0.5 | 2    |
| 1,1,2,2 Tetrachloroethane       | 0.5 | 1    |
| 1,2 Dichlorobenzene (volatile)  | 0.5 | 2    |
| 1,2 Dichloroethane              | 0.5 | 2    |
| 1,2 Dichloropropane             | 0.5 | 1    |
| 1,3 Dichlorobenzene (volatile)  | 0.5 | 2    |
| 1,3 Dichloropropene (volatile)  | 0.5 | 2    |
| 1,4 Dichlorobenzene (volatile)  | 0.5 | 2    |
| Acrolein                        | 2.0 | 5    |
| Acrylonitrile                   | 2.0 | 2    |
| Benzene                         | 0.5 | 2    |
| Bromoform                       | 0.5 | 2    |
| Bromomethane                    | 1.0 | 2    |
| Carbon Tetrachloride            | 0.5 | 2    |
| Chlorobenzene                   | 0.5 | 2    |
| Chlorodibromo-methane           | 0.5 | 2    |
| Chloroethane                    | 0.5 | 2    |
| Chloroform                      | 0.5 | 2    |
| Chloromethane                   | 0.5 | 2    |
| Dichlorobromo-methane           | 0.5 | 2    |
| Dichloromethane                 | 0.5 | 2    |
| Ethylbenzene                    | 0.5 | 2    |
| Tetrachloroethene               | 0.5 | 2    |
| Toluene                         | 0.5 | 2    |
| Trans-1,2 Dichloroethylene      | 0.5 | 1    |
| Trichloroethene                 | 0.5 | 2    |
| Vinyl Chloride                  | 0.5 | 2    |

\*The normal method-specific factor for these substances is 1; therefore, the lowest standard concentration in the calibration curve is equal to the above ML value for each substance.

| Table 2b - SEMI-VOLATILE SUBSTANCES* | GC | GCMS | LC   | COLOR |
|--------------------------------------|----|------|------|-------|
| 1,2 Benzanthracene                   | 10 | 5    |      |       |
| 1,2 Dichlorobenzene (semivolatile)   | 2  | 2    |      |       |
| 1,2 Diphenylhydrazine                |    | 1    |      |       |
| 1,2,4 Trichlorobenzene               | 1  | 5    |      |       |
| 1,3 Dichlorobenzene (semivolatile)   | 2  | 1    |      |       |
| 1,4 Dichlorobenzene (semivolatile)   | 2  | 1    |      |       |
| 2 Chlorophenol                       | 2  | 5    |      |       |
| 2,4 Dichlorophenol                   | 1  | 5    |      |       |
| 2,4 Dimethylphenol                   | 1  | 2    |      |       |
| 2,4 Dinitrophenol                    | 5  | 5    |      |       |
| 2,4 Dinitrotoluene                   | 10 | 5    |      |       |
| 2,4,6 Trichlorophenol                | 10 | 10   |      |       |
| 2,6 Dinitrotoluene                   |    | 5    |      |       |
| 2- Nitrophenol                       |    | 10   |      |       |
| 2-Chloroethyl vinyl ether            | 1  | 1    |      |       |
| 2-Chloronaphthalene                  |    | 10   |      |       |
| 3,3' Dichlorobenzidine               |    | 5    |      |       |
| 3,4 Benzofluoranthene                |    | 10   | 10   |       |
| 4 Chloro-3-methylphenol              | 5  | 1    |      |       |
| 4,6 Dinitro-2-methylphenol           | 10 | 5    |      |       |
| 4- Nitrophenol                       | 5  | 10   |      |       |
| 4-Bromophenyl phenyl ether           | 10 | 5    |      |       |
| 4-Chlorophenyl phenyl ether          |    | 5    |      |       |
| Acenaphthene                         | 1  | 1    | 0.5  |       |
| Acenaphthylene                       |    | 10   | 0.2  |       |
| Anthracene                           |    | 10   | 2    |       |
| Benzidine                            |    | 5    |      |       |
| Benzo(a) pyrene(3,4 Benzopyrene)     |    | 10   | 2    |       |
| Benzo(g,h,i)perylene                 |    | 5    | 0.1  |       |
| Benzo(k)fluoranthene                 |    | 10   | 2    |       |
| bis 2-(1-Chloroethoxyl) methane      |    | 5    |      |       |
| bis(2-chloroethyl) ether             | 10 | 1    |      |       |
| bis(2-Chloroisopropyl) ether         | 10 | 2    |      |       |
| bis(2-Ethylhexyl) phthalate          | 10 | 5    |      |       |
| Butyl benzyl phthalate               | 10 | 10   |      |       |
| Chrysene                             |    | 10   | 5    |       |
| di-n-Butyl phthalate                 |    | 10   |      |       |
| di-n-Octyl phthalate                 |    | 10   |      |       |
| Dibenzo(a,h)-anthracene              |    | 10   | 0.1  |       |
| Diethyl phthalate                    | 10 | 2    |      |       |
| Dimethyl phthalate                   | 10 | 2    |      |       |
| Fluoranthene                         | 10 | 1    | 0.05 |       |
| Fluorene                             |    | 10   | 0.1  |       |

| Table 2b - SEMI-VOLATILE SUBSTANCES* | GC | GCMS | LC   | COLOR |
|--------------------------------------|----|------|------|-------|
| Hexachloro-cyclopentadiene           | 5  | 5    |      |       |
| Hexachlorobenzene                    | 5  | 1    |      |       |
| Hexachlorobutadiene                  | 5  | 1    |      |       |
| Hexachloroethane                     | 5  | 1    |      |       |
| Indeno(1,2,3,cd)-pyrene              |    | 10   | 0.05 |       |
| Isophorone                           | 10 | 1    |      |       |
| N-Nitroso diphenyl amine             | 10 | 1    |      |       |
| N-Nitroso-dimethyl amine             | 10 | 5    |      |       |
| N-Nitroso -di n-propyl amine         | 10 | 5    |      |       |
| Naphthalene                          | 10 | 1    | 0.2  |       |
| Nitrobenzene                         | 10 | 1    |      |       |
| Pentachlorophenol                    | 1  | 5    |      |       |
| Phenanthrene                         |    | 5    | 0.05 |       |
| Phenol **                            | 1  | 1    |      | 50    |
| Pyrene                               |    | 10   | 0.05 |       |

\* With the exception of phenol by colorimetric technique, the normal method-specific factor for these substances is 1,000; therefore, the lowest standard concentration in the calibration curve is equal to the above ML value for each substance multiplied by 1,000.

\*\* Phenol by colorimetric technique has a factor of 1.

| Table 2c – INORGANICS* | FAA | GFAA | ICP | ICPMS | SPGFAA | HYDRIDE | CVAA | COLOR | DCP    |
|------------------------|-----|------|-----|-------|--------|---------|------|-------|--------|
| Antimony               | 10  | 5    | 50  | 0.5   | 5      | 0.5     |      |       | 1,000  |
| Arsenic                |     | 2    | 10  | 2     | 2      | 1       |      | 20    | 1,000  |
| Beryllium              | 20  | 0.5  | 2   | 0.5   | 1      |         |      |       | 1,000  |
| Cadmium                | 10  | 0.5  | 10  | 0.25  | 0.5    |         |      |       | 1,000  |
| Chromium (total)       | 50  | 2    | 10  | 0.5   | 1      |         |      |       | 1,000  |
| Chromium VI            | 5   |      |     |       |        |         |      | 10    |        |
| Copper                 | 25  | 5    | 10  | 0.5   | 2      |         |      |       | 1,000  |
| Cyanide                |     |      |     |       |        |         |      | 5     |        |
| Lead                   | 20  | 5    | 5   | 0.5   | 2      |         |      |       | 10,000 |
| Mercury                |     |      |     | 0.5   |        |         | 0.2  |       |        |
| Nickel                 | 50  | 5    | 20  | 1     | 5      |         |      |       | 1,000  |
| Selenium               |     | 5    | 10  | 2     | 5      | 1       |      |       | 1,000  |
| Silver                 | 10  | 1    | 10  | 0.25  | 2      |         |      |       | 1,000  |
| Thallium               | 10  | 2    | 10  | 1     | 5      |         |      |       | 1,000  |
| Zinc                   | 20  |      | 20  | 1     | 10     |         |      |       | 1,000  |

\* The normal method-specific factor for these substances is 1; therefore, the lowest standard concentration in the calibration curve is equal to the above ML value for each substance.

| Table 2d – PESTICIDES – PCBs*     | GC    |
|-----------------------------------|-------|
| 4,4'-DDD                          | 0.05  |
| 4,4'-DDE                          | 0.05  |
| 4,4'-DDT                          | 0.01  |
| a-Endosulfan                      | 0.02  |
| a-Hexachloro-cyclohexane          | 0.01  |
| Aldrin                            | 0.005 |
| b-Endosulfan                      | 0.01  |
| b-Hexachloro-cyclohexane          | 0.005 |
| Chlordane                         | 0.1   |
| d-Hexachloro-cyclohexane          | 0.005 |
| Dieldrin                          | 0.01  |
| Endosulfan Sulfate                | 0.05  |
| Endrin                            | 0.01  |
| Endrin Aldehyde                   | 0.01  |
| Heptachlor                        | 0.01  |
| Heptachlor Epoxide                | 0.01  |
| Lindane(g-Hexachloro-cyclohexane) | 0.02  |
| PCB 1016                          | 0.5   |
| PCB 1221                          | 0.5   |
| PCB 1232                          | 0.5   |
| PCB 1242                          | 0.5   |
| PCB 1248                          | 0.5   |
| PCB 1254                          | 0.5   |
| PCB 1260                          | 0.5   |
| Toxaphene                         | 0.5   |

\* The normal method-specific factor for these substances is 100; therefore, the lowest standard concentration in the calibration curve is equal to the above ML value for each substance multiplied by 100.

### **Techniques:**

GC - Gas Chromatography

GCMS - Gas Chromatography/Mass Spectrometry

HRGCMS - High Resolution Gas Chromatography/Mass Spectrometry (i.e., EPA 1613, 1624, or 1625)

LC - High Pressure Liquid Chromatography

FAA - Flame Atomic Absorption

GFAA - Graphite Furnace Atomic Absorption

HYDRIDE - Gaseous Hydride Atomic Absorption

CVAA - Cold Vapor Atomic Absorption

ICP - Inductively Coupled Plasma

ICPMS - Inductively Coupled Plasma/Mass Spectrometry

SPGFAA - Stabilized Platform Graphite Furnace Atomic Absorption (i.e., EPA 200.9)

DCP - Direct Current Plasma

COLOR - Colorimetric