

## Chapter NR 666

## APPENDIX VII

## HEALTH-BASED LIMITS FOR EXCLUSION OF WASTE-DERIVED RESIDUES\*

## Metals—TCLP Extract Concentration Limits

| Constituent | CAS No.   | Concentration limits (mg/L) |
|-------------|-----------|-----------------------------|
| Antimony    | 7440-36-0 | 1xE+00                      |
| Arsenic     | 7440-38-2 | 5xE+00                      |
| Barium      | 7440-39-3 | 1xE+02                      |
| Beryllium   | 7440-41-7 | 7xE-03                      |
| Cadmium     | 7440-43-9 | 1xE+00                      |
| Chromium    | 7440-47-3 | 5xE+00                      |
| Lead        | 7439-92-1 | 5xE+00                      |
| Mercury     | 7439-97-6 | 2xE-01                      |
| Nickel      | 7440-02-0 | 7xE+01                      |
| Selenium    | 7782-49-2 | 1xE+00                      |
| Silver      | 7440-22-4 | 5xE+00                      |
| Thallium    | 7440-28-0 | 7xE+00                      |

## Nonmetals—Residue Concentration Limits

| Constituent                 | CAS No.    | Concentration limits for residues (mg/kg) |
|-----------------------------|------------|---|
| Acetonitrile                | 75-05-8    | 2xE-01                                    |
| Acetophenone                | 98-86-2    | 4xE+00                                    |
| Acrolein                    | 107-02-8   | 5xE-01                                    |
| Acrylamide                  | 79-06-1    | 2xE-04                                    |
| Acrylonitrile               | 107-13-1   | 7xE-04                                    |
| Aldrin                      | 309-00-2   | 2xE-05                                    |
| Allyl alcohol               | 107-18-6   | 2xE-01                                    |
| Aluminum phosphide          | 20859-73-8 | 1xE-02                                    |
| Aniline                     | 62-53-3    | 6xE-02                                    |
| Barium cyanide              | 542-62-1   | 1xE+00                                    |
| Benz(a)anthracene           | 56-55-3    | 1xE-04                                    |
| Benzene                     | 71-43-2    | 5xE-03                                    |
| Benzidine                   | 92-87-5    | 1xE-06                                    |
| Bis(2-chloroethyl) ether    | 111-44-4   | 3xE-04                                    |
| Bis(chloromethyl) ether     | 542-88-1   | 2xE-06                                    |
| Bis(2-ethylhexyl) phthalate | 117-81-7   | 3xE+01                                    |
| Bromoform                   | 75-25-2    | 7xE-01                                    |
| Calcium cyanide             | 592-01-8   | 1xE-06                                    |
| Carbon disulfide            | 75-15-0    | 4xE+00                                    |
| Carbon tetrachloride        | 56-23-5    | 5xE-03                                    |
| Chlordane                   | 57-74-9    | 3xE-04                                    |
| Chlorobenzene               | 108-90-7   | 1xE+00                                    |
| Chloroform                  | 67-66-3    | 6xE-02                                    |
| Copper cyanide              | 544-92-3   | 2xE-01                                    |
| Cresols (Cresylic acid)     | 1319-77-3  | 2xE+00                                    |
| Cyanogen                    | 460-19-5   | 1xE+00                                    |
| DDT                         | 50-29-3    | 1xE-03                                    |
| Dibenz(a, h)-anthracene     | 53-70-3    | 7xE-06                                    |
| 1,2-Dibromo-3-chloropropane | 96-12-8    | 2xE-05                                    |
| p-Dichlorobenzene           | 106-46-7   | 7.5xE-02                                  |
| Dichlorodifluoromethane     | 75-71-8    | 7xE+00                                    |
| 1,1-Dichloroethylene        | 75-35-4    | 5xE-03                                    |

| Constituent                         | CAS No.    | Concentration limits for residues (mg/kg) |
|-------------------------------------|------------|---|
| 2,4-Dichlorophenol                  | 120-83-2   | 1xE-01                                    |
| 1,3-Dichloropropene                 | 542-75-6   | 1xE-03                                    |
| Dieldrin                            | 60-57-1    | 2xE-05                                    |
| Diethyl phthalate                   | 84-66-2    | 3xE+01                                    |
| Diethylstilbesterol                 | 56-53-1    | 7xE-07                                    |
| Dimethoate                          | 60-51-5    | 3xE-02                                    |
| 2,4-Dinitrotoluene                  | 121-14-2   | 5xE-04                                    |
| Diphenylamine                       | 122-39-4   | 9xE-01                                    |
| 1,2-Diphenylhydrazine               | 122-66-7   | 5xE-04                                    |
| Endosulfan                          | 115-29-7   | 2xE-03                                    |
| Endrin                              | 72-20-8    | 2xE-04                                    |
| Epichlorohydrin                     | 106-89-8   | 4xE-02                                    |
| Ethylene dibromide                  | 106-93-4   | 4xE-07                                    |
| Ethylene oxide                      | 75-21-8    | 3xE-04                                    |
| Fluorine                            | 7782-41-4  | 4xE+00                                    |
| Formic acid                         | 64-18-6    | 7xE+01                                    |
| Heptachlor                          | 76-44-8    | 8xE-05                                    |
| Heptachlor epoxide                  | 1024-57-3  | 4xE-05                                    |
| Hexachlorobenzene                   | 118-74-1   | 2xE-04                                    |
| Hexachlorobutadiene                 | 87-68-3    | 5xE-03                                    |
| Hexachlorocyclopentadiene           | 77-47-4    | 2xE-01                                    |
| Hexachlorodibenzo-p-dioxins         | 19408-74-3 | 6xE-08                                    |
| Hexachloroethane                    | 67-72-1    | 3xE-02                                    |
| Hydrazine                           | 302-01-1   | 1xE-04                                    |
| Hydrogen cyanide                    | 74-90-8    | 7xE-05                                    |
| Hydrogen sulfide                    | 7783-06-4  | 1xE-06                                    |
| Isobutyl alcohol                    | 78-83-1    | 1xE+01                                    |
| Methomyl                            | 16752-77-5 | 1xE+00                                    |
| Methoxychlor                        | 72-43-5    | 1xE-01                                    |
| 3-Methylcholanthrene                | 56-49-5    | 4xE-05                                    |
| 4,4'-Methylenebis (2-chloroaniline) | 101-14-4   | 2xE-03                                    |
| Methylene chloride                  | 75-09-2    | 5xE-02                                    |
| Methyl ethyl ketone (MEK)           | 78-93-3    | 2xE+00                                    |
| Methyl hydrazine                    | 60-34-4    | 3xE-04                                    |
| Methyl parathion                    | 298-00-0   | 2xE-02                                    |
| Naphthalene                         | 91-20-3    | 1xE+01                                    |
| Nickel cyanide                      | 557-19-7   | 7xE-01                                    |
| Nitric oxide                        | 10102-43-9 | 4xE+00                                    |
| Nitrobenzene                        | 98-95-3    | 2xE-02                                    |
| N-Nitrosodi-n-butylamine            | 924-16-3   | 6xE-05                                    |
| N-Nitrosodiethylamine               | 55-18-5    | 2xE-06                                    |
| N-Nitroso-N-methylurea              | 684-93-5   | 1xE-07                                    |
| N-Nitrosopyrrolidine                | 930-55-2   | 2xE-04                                    |
| Pentachlorobenzene                  | 608-93-5   | 3xE-02                                    |
| Pentachloronitrobenzene (PCNB)      | 82-68-8    | 1xE-01                                    |
| Pentachlorophenol                   | 87-86-5    | 1xE+00                                    |
| Phenol                              | 108-95-2   | 1xE+00                                    |
| Phenylmercury acetate               | 62-38-4    | 3xE-03                                    |
| Phosphine                           | 7803-51-2  | 1xE-02                                    |
| Polychlorinated biphenyls, N.O.S    | 1336-36-3  | 5xE-05                                    |
| Potassium cyanide                   | 151-50-8   | 2xE+00                                    |

| Constituent                | CAS No.    | Concentration limits for residues (mg/kg) |
|----------------------------|------------|---|
| Potassium silver cyanide   | 506-61-6   | 7xE+00                                    |
| Pronamide                  | 23950-58-5 | 3xE+00                                    |
| Pyridine                   | 110-86-1   | 4xE-02                                    |
| Reserpine                  | 50-55-5    | 3xE-05                                    |
| Selenourea                 | 630-10-4   | 2xE-01                                    |
| Silver cyanide             | 506-64-9   | 4xE+00                                    |
| Sodium cyanide             | 143-33-9   | 1xE+00                                    |
| Strychnine                 | 57-24-9    | 1xE-02                                    |
| 1,2,4,5-Tetrachlorobenzene | 95-94-3    | 1xE-02                                    |
| 1,1,2-tetrachloroethane    | 79-34-5    | 2xE-03                                    |
| Tetrachloroethylene        | 127-18-4   | 7xE-01                                    |
| 2,3,4,6-Tetrachlorophenol  | 58-90-2    | 1xE-02                                    |
| Tetraethyl lead            | 78-00-2    | 4xE-06                                    |
| Thiourea                   | 62-56-6    | 2xE-04                                    |
| Toluene                    | 108-88-3   | 1xE+01                                    |
| Toxaphene                  | 8001-35-2  | 5xE-03                                    |
| 1,1,2-Trichloroethane      | 79-00-5    | 6xE-03                                    |
| Trichloroethylene          | 79-01-6    | 5xE-03                                    |
| Trichloromonofluoromethane | 75-69-4    | 1xE+01                                    |
| 2,4,5-Trichlorophenol      | 95-95-4    | 4xE+00                                    |
| 2,4,6-Trichlorophenol      | 88-06-2    | 4xE+00                                    |
| Vanadium pentoxide         | 1314-62-1  | 7xE-01                                    |
| Vinyl chloride             | 75-01-4    | 2xE-03                                    |

**\*Note 1:** The health-based concentration limits for ch. NR 661 Appendix VIII constituents for which a health-based concentration is not provided below is 2xE-06 mg/kg.

**Note 2:** The levels specified in this appendix and the default level of 0.002 micrograms per kilogram or the level of detection for constituents as identified in Note 1 are administratively stayed under the condition, for those constituents specified in s. NR 666.112 (2) (a), that the owner or operator complies with alternative levels defined as the land disposal restriction limits specified in s. NR 668.43 for F039 non-wastewaters. See s. NR 666.112 (2) (b) 1.