**Appendix E**
**Comparison of Quantitation Limits to Ecological Screening Standards**

| | | | | AQUEOUS | | WATER | | | | | | SOLID | | SEDIMENT | | | | | | SOIL | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Analyte | Data Group | CAS | Bioaccumulative | RL ug/L | MDL ug/L | FRESHWATER ug/l | | MARINE ug/l | | MDL>TCEQ FRESHWATER | MDL>TCEQ MARINE | RL ug/kg | MDL ug/kg | FRESHWATER ug/kg dry wt. | | MARINE ug/kg dry wt. | | MDL>TCEQ FRESHWATER | MDL>TCEQ MARINE | EARTHWORMS mg/kg dry wt. | PLANTS mg/kg dry wt. | MEDIAN BACKGROUND mg/kg dry wt. |
| Acetone | VOC | 67-64-1 | No | 50 | 2.8 | 101,200 | b | 282000.00 | b | No | No | 50 | 7.2 | 60030 | | 167230.0 | | No | No | | | |
| Benzene | VOC | 71-43-2 | No | 2 | 0.23 | 130 | e | 109.00 | g | No | No | 5 | 1.4 | 160 | | 140.0 | | No | No | | | |
| Bromobenzene | VOC | 108-86-1 | No | 2 | 0.73 | NA | | NA | | NA | NA | 5 | 1.3 | NA | | NA | | NA | NA | | | |
| Bromochloromethane | VOC | 74-97-5 | No | 2 | 0.64 | NA | | NA | | NA | NA | 5 | 1.4 | NA | | NA | | NA | NA | | | |
| Bromodichloromethane | VOC | 75-27-4 | No | 2 | 0.33 | 2,160 | b | NA | | No | NA | 5 | 1.4 | 2460 | | NA | | No | No | | | |
| Bromoform | VOC | 75-25-2 | No | 2 | 0.65 | 149 | b | 1220.00 | b | NA | NA | 5 | 1.2 | 220 | | 1780.0 | | No | No | | | |
| n-Butylbenzene | VOC | 104-51-8 | No | 2 | 0.6 | 36 | b | NA | | No | NA | 5 | 0.97 | 1090 | | NA | | No | NA | | | |
| sec-Butylbenzene | VOC | 135-98-8 | No | 2 | 0.5 | 41 | b | NA | | No | NA | 5 | 1.1 | 880 | | NA | | No | NA | | | |
| tert-Butylbenzene | VOC | 98-06-6 | No | 2 | 0.55 | 48 | b | NA | | No | NA | 5 | 1 | 1210 | | NA | | No | NA | | | |
| Chlorobenzene | VOC | 108-90-7 | No | 2 | 0.54 | 64 | e | 105.00 | g | No | No | 5 | 1.4 | 170 | | 290.0 | | No | No | 40 | | |
| Chloroethane | VOC | 75-00-3 | No | 2 | 0.46 | NA | | NA | | NA | NA | 5 | 1.4 | NA | | NA | | NA | NA | | | |
| Chloroform | VOC | 67-66-3 | No | 2 | 0.66 | 890 | q | 4100.00 | q | No | No | 5 | 1.3 | 940 | | 4300.0 | | No | No | | | |
| o-Chlorotoluene | VOC | 95-49-8 | No | 2 | 0.5 | NA | | NA | | NA | NA | 5 | 1.2 | NA | | NA | | NA | NA | | | |
| p-Chlorotoluene | VOC | 106-43-4 | No | 2 | 0.5 | NA | | NA | | NA | NA | 5 | 1.1 | NA | | NA | | NA | NA | | | |
| Carbon Disulfide | VOC | 75-15-0 | No | 2 | 0.62 | 105 | b | NA | | No | NA | 10 | 1.3 | 120 | | NA | | No | NA | | | |
| Carbon tetrachloride | VOC | 56-23-5 | No | 2 | 0.52 | 10 | e | 1500.00 | g | No | No | 10 | 1.3 | 20 | | 3670.0 | | No | No | | | |
| Dibromochloromethane | VOC | 124-48-1 | No | 2 | 0.68 | 129 | | NA | | NA | NA | 5 | 1.4 | 160 | | NA | | No | NA | | | |
| 1,2-Dibromo-3-chloropropane | VOC | 96-12-8 | No | 2 | 1.5 | NA | | NA | | NA | NA | 5 | 1.4 | NA | | NA | | NA | NA | | | |
| 1,2-Dibromoethane | VOC | 106-93-4 | No | 2 | 0.68 | NA | | NA | | NA | NA | 5 | 1.4 | NA | | NA | | NA | NA | | | |
| 1,1-Dichloroethane | VOC | 75-34-3 | No | 2 | 0.52 | 2,570 | q | NA | | No | NA | 5 | 1.3 | 2320 | | NA | | No | NA | | | |
| 1,2-Dichloroethane | VOC | 107-06-2 | No | 2 | 0.53 | 6,300 | q | 5650.00 | q | No | No | 5 | 1.4 | 4790 | | 4300.0 | | No | No | | | |
| 1,1-Dichloroethylene | VOC | 75-35-4 | No | 2 | 0.68 | 1,500 | q | 12500.00 | q | No | No | 5 | 1.3 | 1870 | | 15410.0 | | No | No | | | |
| cis-1,2-Dichloroethylene | VOC | 156-59-2 | No | 2 | 0.83 | NA | | NA | | NA | NA | 5 | 1.4 | NA | | NA | | NA | NA | | | |
| trans-1,2-Dichloroethylene | VOC | 156-60-5 | No | 2 | 0.75 | 22,000 | q | NA | | No | NA | 5 | 1.3 | 23950 | | NA | | No | NA | | | |
| 1,2-Dichloropropane | VOC | 78-87-5 | No | 2 | 0.59 | 1,870 | b | 2400.00 | g | No | No | 5 | 1.5 | 2200 | | 2820.0 | | No | NA | 700 | | |
| 1,3-Dichloropropane | VOC | 142-28-9 | No | 2 | 0.61 | NA | | NA | | NA | NA | 5 | 1.4 | NA | | NA | | NA | NA | | | |
| 2,2-Dichloropropane | VOC | 594-20-7 | No | 2 | 0.65 | NA | | NA | | NA | NA | 5 | 1.1 | NA | | NA | | NA | NA | | | |
| 1,1-Dichloropropene | VOC | 563-58-6 | No | 2 | 0.38 | NA | | NA | | NA | NA | 5 | 1.2 | NA | | NA | | NA | NA | | | |
| cis-1,3-Dichloropropene | VOC | 10061-01-5 | No | 2 | 0.59 | NA | | NA | | NA | NA | 5 | 1.3 | NA | | NA | | NA | NA | | | |
| trans-1,3-Dichloropropene | VOC | 10061-02-6 | No | 2 | 0.61 | NA | | NA | | NA | NA | 5 | 1.4 | NA | | NA | | NA | NA | | | |
| m-Dichlorobenzene | VOC | 541-73-1 | No | 2 | 0.5 | 85 | b | 142.00 | b | No | No | 5 | 1.2 | 190 | | 320.0 | | No | No | | | |
| o-Dichlorobenzene | VOC | 95-50-1 | No | 2 | 0.5 | 110 | b | 99.00 | b | No | No | 5 | 1.2 | 830 | | 740.0 | | No | No | | | |
| p-Dichlorobenzene | VOC | 106-46-7 | No | 2 | 0.5 | 110 | b | 99.00 | b | No | No | 5 | 1.2 | 770 | | 700.0 | | No | No | 20 | | |
| Dichlorodifluoromethane | VOC | 75-71-8 | No | 2 | 0.73 | 1,960 | b | NA | | No | NA | 5 | 1.1 | 3680 | | NA | | No | NA | | | |
| 1-4-Dioxane | VOC | 123-91-1 | No | 50 | 24.1 | 22,000 | x | NA | b | No | NA | 250 | 24 | 119 | x | NA | | No | NA | 12.6 | NA | NA |
| Ethyl benzene | VOC | 100-41-4 | No | 2 | 0.48 | 1,090 | b | 249.00 | b | No | No | 5 | 1.3 | 2860 | | 650.0 | | No | No | | | |
| 2-Hexanone | VOC | 591-78-6 | No | 10 | 1.9 | 6,130 | b | NA | | No | NA | 50 | 6.8 | 4700 | | NA | | No | NA | | | |
| Hexachlorobutadiene | VOC | 87-68-3 | No | 2 | 1.8 | 1 | g | 0.32 | g | Yes | Yes | 5 | 1.2 | 55 | | 20.0 | | No | No | | | |
| Isopropylbenzene | VOC | 98-82-8 | No | 2 | 0.46 | 255 | b | NA | | NA | NA | 5 | 1.2 | 8990 | | NA | | No | NA | | | |
| p-Isopropyltoluene | VOC | 99-87-6 | No | 2 | 0.57 | 42 | b | NA | | NA | NA | 5 | 1.2 | 1000 | | NA | | No | NA | | | |
| Methyl bromide | VOC | 74-83-9 | No | 2 | 0.47 | 110 | b | 600.00 | b | No | No | 5 | 1.5 | 80 | | 420.0 | | No | No | | | |
| Methyl chloride | VOC | 74-87-3 | No | 2 | 0.6 | 28,000 | b | 13500.00 | b | NA | NA | 5 | 1.5 | 106800 | | 52430.0 | | No | No | | | |
| 4-Methyl-2-pentanone | VOC | 108-10-1 | No | 10 | 7.3 | 26,400 | b | 61500.00 | b | No | No | 50 | 7 | 19430 | | 45340.0 | | No | No | | | |
| Methylene bromide | VOC | 74-95-3 | No | 2 | 1 | NA | | NA | | NA | NA | 5 | 2 | NA | | NA | | NA | NA | | | |
| Methylene chloride | VOC | 75-09-2 | No | 5 | 0.67 | 11,000 | q | 5420.00 | q | No | No | 10 | 2.5 | 7750 | | 3820.0 | | No | No | | | |
| Methyl ethyl ketone | VOC | 78-93-3 | No | 10 | 3 | 42,400 | b | NA | | NA | NA | 50 | 6.7 | 25710 | | NA | | No | NA | | | |
| Naphthalene | VOC | 91-20-3 | No | 5 | 0.57 | 250 | b | 125.00 | b | NA | NA | 5 | 1.2 | 176 | | 160.0 | | No | No | | | |
| n-Propylbenzene | VOC | 103-65-1 | No | 2 | 0.53 | 64 | b | NA | | No | NA | 5 | 1.1 | 720 | | NA | | No | NA | | | |
| Styrene | VOC | 100-42-5 | No | 2 | 0.5 | 1,250 | b | 455.00 | b | No | No | 5 | 1.3 | 10240 | | 3720.0 | | No | No | | 300 | |
| 1,1,1,2-Tetrachloroethane | VOC | 630-20-6 | No | 2 | 0.52 | NA | | NA | | NA | NA | 5 | 1.4 | NA | | NA | | NA | NA | | | |
| 1,1,2,2-Tetrachloroethane | VOC | 79-34-5 | No | 2 | 0.46 | 465 | b | 451.00 | b | No | No | 5 | 1.4 | 630 | | 610.0 | | No | No | | | |
| 1,2,3-Trichlorobenzene | VOC | 87-61-6 | No | 2 | 0.62 | NA | | NA | | NA | NA | 5 | 1.2 | NA | | NA | | NA | NA | 20 | | |

9557895

**Appendix E**
**Comparison of Quantitation Limits to Ecological Screening Standards**

| | | | | AQUEOUS | | WATER | | | | | | SOLID | | SEDIMENT | | | | | | SOIL | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Analyte | Data Group | CAS | Bioaccumulative | RL ug/L | MDL ug/L | FRESHWATER ug/l | | MARINE ug/l | | MDL>TCEQ FRESHWATER | MDL>TCEQ MARINE | RL ug/kg | MDL ug/kg | FRESHWATER ug/kg dry wt. | | MARINE ug/kg dry wt. | | MDL>TCEQ FRESHWATER | MDL>TCEQ MARINE | EARTHWORMS mg/kg dry wt. | PLANTS mg/kg dry wt. | MEDIAN BACKGROUND mg/kg dry wt. |
| 1,2,4-Trichlorobenzene | VOC | 120-82-1 | No | 2 | 0.93 | 51 | b | 22.00 | b | No | No | 5 | 1 | 880 | | 390.0 | | No | No | 20 | | |
| 1,1,1-Trichloroethane | VOC | 71-55-6 | No | 2 | 0.37 | 2,450 | q | 1560.00 | q | No | No | 5 | 1.2 | 4130 | | 2630.0 | | No | No | | | |
| 1,1,2-Trichloroethane | VOC | 79-00-5 | No | 2 | 0.66 | 900 | b | 275.00 | b | No | No | 5 | 1.4 | 980 | | 300.0 | | No | No | | | |
| Trichloroethylene | VOC | 79-01-6 | No | 2 | 0.63 | 550 | b | 970.00 | q | No | No | 5 | 1.3 | 840 | | 1470.0 | | No | No | | | |
| Trichlorofluoromethane | VOC | 75-69-4 | No | 2 | 0.82 | 871 | b | NA | | No | NA | 5 | 1 | 1690 | | NA | | No | NA | | | |
| 1,2,3-Trichloropropane | VOC | 96-18-4 | No | 2 | 0.52 | NA | | NA | | NA | NA | 5 | 1.4 | NA | | NA | | NA | NA | | | |
| 1,2,4-Trimethylbenzene | VOC | 95-63-6 | No | 2 | 0.55 | 77 | b | 217.00 | b | No | No | 5 | 1.1 | 760 | | 2160.0 | | No | No | | | |
| 1,3,5-Trimethylbenzene | VOC | 108-67-8 | No | 2 | 0.47 | 71 | b | NA | | No | NA | 5 | 1.1 | 770 | | NA | | No | NA | | | |
| Tetrachloroethylene | VOC | 127-18-4 | No | 2 | 0.74 | 790 | q | 1450.00 | q | No | No | 5 | 1.3 | 1690 | | 3100.0 | | No | No | | | |
| Toluene | VOC | 108-88-3 | No | 2 | 0.54 | 1,450 | q | 480.00 | q | No | No | 5 | 1.3 | 2880 | | 940.0 | | No | No | | 200 | |
| Vinyl Acetate | VOC | 108-05-4 | No | 10 | 2.1 | 2,820 | b | NA | | No | NA | 25 | 8 | 10 | b | NA | | No | NA | 12.7 | | |
| Vinyl chloride | VOC | 75-01-4 | No | 2 | 0.32 | 2,820 | b | NA | | No | NA | 5 | 1.4 | 1960 | | NA | | No | NA | | | |
| Xylene (Total) | VOC | 1330-20-7 | No | 6 | 1.1 | 1,340 | q | 850.00 | q | No | No | 15 | 3.8 | 4000 | | 2540.0 | | No | No | | | |
| m,p-Xylene | VOC | 108-38-3 | No | 4 | 1.1 | 2 | e,m | NA | | No | NA | 5 | 1.3 | 4.6 | | NA | | No | NA | | | |
| o-Xylene | VOC | 95-47-6 | No | 2 | 0.48 | NA | | NA | | NA | NA | 5 | 1.3 | NA | | NA | | NA | NA | | | |
| Acenaphthene | SVOC | 83-32-9 | No | 5.0 | 2.4 | 23 | o | 40.40 | o | No | No | 170 | 43 | 6.7 | J | 16.0 | | Yes | Yes | | 20 | |
| Acenaphthylene | SVOC | 208-96-8 | No | 5.0 | 1.6 | 4,840 | x | NA | | NA | NA | 170 | 42 | 5.9 | J | 44.0 | | Yes | No | | | |
| Anthracene | SVOC | 120-12-7 | No | 5.0 | 2.1 | 0.3 | b | 0.18 | b | Yes | Yes | 170 | 49 | 57.2 | | 85.3 | | No | No | | | |
| Benzenethiol | SVOC | 108-98-5 | No | 10.0 | 10.0 | NA | | NA | | NA | NA | 170 | 170 | NA | | NA | | NA | NA | | | |
| Benzo(a)anthracene | SVOC | 56-55-3 | No | 5.0 | 1.1 | 35 | b | NA | | No | NA | 170 | 43 | 108 | | 261.0 | | No | No | | | |
| Benzo(a)pyrene | SVOC | 50-32-8 | No | 5.0 | 1.3 | 0.014 | e | NA | | Yes | NA | 170 | 41 | 150 | | 430.0 | | No | No | | | |
| Benzo(b)fluoranthene | SVOC | 205-99-2 | No | 5.0 | 2.9 | 9.1 | x | NA | | NA | NA | 170 | 43 | NA | | NA | | NA | NA | | | |
| Benzo(g,h,i)perylene | SVOC | 191-24-2 | No | 5.0 | 1.2 | 7.6 | x | NA | | NA | NA | 170 | 68 | NA | | NA | | NA | NA | | | |
| Benzo(k)fluoranthene | SVOC | 207-08-9 | No | 5.0 | 0.94 | 9.04 | x | NA | | NA | NA | 170 | 40 | NA | | NA | | NA | NA | | | |
| Benzoic acid | SVOC | 65-85-0 | No | 50 | 5.0 | 9,000 | b | NA | | No | NA | 830 | 830 | NA | | NA | | NA | NA | | | |
| Benzyl alcohol | SVOC | 100-51-6 | No | 5.0 | 1.3 | 9 | e | NA | | No | NA | 170 | 56 | NA | | NA | | NA | NA | | | |
| bis(2-Chloroethoxy)methane | SVOC | 111-91-1 | No | 5.0 | 1.1 | NA | | NA | | NA | NA | 170 | 46 | NA | | NA | | NA | NA | | | |
| bis(2-Chloroethyl)ether | SVOC | 111-44-4 | No | 5.0 | 1.4 | 12,000 | b | NA | | No | NA | 170 | 45 | NA | | NA | | NA | NA | | | |
| bis(2-Ethylhexyl)phthalate | SVOC | 117-81-7 | No | 5.0 | 1.6 | 300 | a,r | NA | | No | NA | 170 | 100 | 182 | D | 182.0 | D | No | No | | | |
| 4-Bromophenyl-phenyl ether | SVOC | 101-55-3 | No | 5.0 | 3.2 | 2 | e,m | NA | | Yes | NA | 170 | 37 | NA | | NA | | NA | NA | | | |
| Butyl benzyl phthalate | SVOC | 85-68-7 | No | 5.0 | 1.3 | 93 | b | 147.00 | b | No | No | 170 | 71 | NA | | NA | | NA | NA | | | |
| Carbazole | SVOC | 86-74-8 | No | 5.0 | 2.0 | NA | | NA | | NA | NA | 170 | 47 | NA | | NA | | NA | NA | | | |
| 4-Chloroaniline | SVOC | 106-47-8 | No | 5.0 | 1.7 | NA | | NA | | NA | NA | 170 | 48 | NA | | NA | | NA | NA | | | |
| 4-Chloro-3-methyl phenol | SVOC | 59-50-7 | No | 5.0 | 0.91 | 0.3 | g | NA | | Yes | NA | 170 | 46 | NA | | NA | | NA | NA | | | |
| 2-Chloronaphthalene | SVOC | 91-58-7 | No | 5.0 | 1.5 | 54 | b | NA | | No | NA | 170 | 51 | NA | | NA | | NA | NA | | | |
| 2-Chlorophenol | SVOC | 95-57-8 | No | 5.0 | 2.1 | 130 | b | 265.00 | b | No | No | 170 | 33 | NA | | NA | | NA | NA | | | |
| 4-Chlorophenyl phenyl ether | SVOC | 7005-72-3 | No | 5.0 | 1.9 | NA | | NA | | NA | NA | 170 | 34 | NA | | NA | | NA | NA | | | |
| Chrysene | SVOC | 218-01-9 | No | 5.0 | 1.6 | 7 | b | NA | | No | NA | 170 | 64 | 166 | | 384.0 | | No | No | | | |
| Cyclohexanediol | SVOC | 6995-79-5<br>931-71-5 | No | NA | NA | NA | | NA | | NA | NA | NA | NA | NA | | NA | | NA | NA | | | |
| Dibenz(a,h)acridine | SVOC | 226-36-8 | No | 5.0 | 4.8 | 54 | e | NA | | No | NA | 170 | 61 | NA | | NA | | NA | NA | | | |
| Dibenzo(a,h)anthracene | SVOC | 53-70-3 | No | 5.0 | 1.6 | 5 | b | NA | | No | NA | 170 | 61 | 33 | | 63.4 | | Yes | No | | | |
| Dibenzofuran | SVOC | 132-64-9 | No | 5.0 | 0.99 | 94 | b | 65.00 | b | No | No | 170 | 33 | NA | | NA | | NA | NA | | | |
| 1,2-Dichlorobenzene | SVOC | 95-50-1 | No | 5.0 | 2.6 | 110 | b | 99.00 | b | No | No | 170 | 69 | 830 | | 740.0 | | No | No | | | |
| 1,3-Dichlorobenzene | SVOC | 541-73-1 | No | 5.0 | 3.1 | 85 | b | 142.00 | b | No | No | 170 | 31 | 190 | | 320.0 | | No | No | | | |
| 1,4-Dichlorobenzene | SVOC | 106-46-7 | No | 5.0 | 2.5 | 110 | b | 99.00 | b | No | No | 170 | 39 | 770 | | 700.0 | | No | No | | | |
| 3,3'-Dichlorobenzidine | SVOC | 91-94-1 | No | 10 | 1.3 | 53 | b | 37.00 | b | No | No | 330 | 81 | NA | | NA | | NA | NA | | | |
| 2,4-Dichlorophenol | SVOC | 120-83-2 | No | 5.0 | 1.0 | 85 | b | NA | | No | NA | 170 | 30 | NA | | NA | | NA | NA | | | |
| Diethylphthalate | SVOC | 84-66-2 | No | 5.0 | 5.0 | 1,040 | b | 442.00 | b | No | No | 170 | 39 | 630 | M | NA | | No | NA | | 100 | |
| 7,12-Dimethyben(a)anthracene | SVOC | 57-97-6 | No | 5.0 | 4.8 | NA | | NA | | NA | NA | 170 | 170 | NA | | NA | | NA | NA | | | |
| 2,4-Dimethylphenol | SVOC | 105-67-9 | No | 5.0 | 1.2 | 105 | b | NA | | No | NA | 170 | 54 | NA | | NA | | NA | NA | | | |
| Dimethyl phthalate | SVOC | 131-11-3 | No | 5.0 | 1.2 | 330 | g | 580.00 | g | No | No | 170 | 39 | NA | | NA | | NA | NA | 200 | | |
| Di-n-butyl phthalate | SVOC | 84-74-2 | No | 5.0 | 1.7 | 7 | b | 5.00 | b | No | No | 170 | 44 | NA | | NA | | NA | NA | | 200 | |
| 4,6-Dinitro-o-cresol | SVOC | 534-52-1 | No | 10 | 3.7 | 12 | b | NA | | No | NA | 330 | 81 | NA | | NA | | NA | NA | | | |
| 2,4-Dinitrophenol | SVOC | 51-28-5 | No | 25 | 2.0 | 31 | b | 670.00 | b | No | No | 830 | 46 | NA | | NA | | NA | NA | | 20 | |
| 2,4-Dinitrotoluene | SVOC | 121-14-2 | No | 5.0 | 1.5 | 1,220 | b | NA | | No | NA | 170 | 49 | NA | | NA | | NA | NA | | | |
| 2,6-Dinitrotoluene | SVOC | 606-20-2 | No | 5.0 | 1.4 | NA | | NA | | NA | NA | 170 | 46 | NA | | NA | | NA | NA | | | |
| Di-n-octylphthalate | SVOC | 117-84-0 | No | 5.0 | 1.3 | 22 | b | NA | | No | NA | 170 | 60 | NA | | NA | | NA | NA | | | |
| Fluoranthene | SVOC | 206-44-0 | No | 5.0 | 1.2 | 6 | o | 2.96 | o | No | No | 170 | 38 | 423 | | 600.0 | | No | No | | | |
| Fluorene | SVOC | 86-73-7 | No | 5.0 | 0.96 | 11 | b | 50 | b | No | No | 170 | 37 | 77.4 | | 19.0 | | No | Yes | 30 | | |
| Hexachlorobenzene | SVOC | 118-74-1 | Yes: F, M, Sed, Soil | 5.0 | 3.3 | 0.0003 | x | NA | | NA | NA | 170 | 47 | 20 | B | NA | | NA | NA | | | |

**Appendix E**
**Comparison of Quantitation Limits to Ecological Screening Standards**

| | | | | AQUEOUS | | WATER | | | | | | SOLID | | SEDIMENT | | | | | | SOIL | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Analyte | Data Group | CAS | Bioaccumulative | RL ug/L | MDL ug/L | FRESHWATER ug/l | | MARINE ug/l | | MDL>TCEQ FRESHWATER | MDL>TCEQ MARINE | RL ug/kg | MDL ug/kg | FRESHWATER ug/kg dry wt. | | MARINE ug/kg dry wt. | | MDL>TCEQ FRESHWATER | MDL>TCEQ MARINE | EARTHWORMS mg/kg dry wt. | PLANTS mg/kg dry wt. | MEDIAN BACKGROUND mg/kg dry wt. |
| Hexachlorobutadiene | SVOC | 87-68-3 | No | 5.0 | 4.0 | 0.93 | g | 0.32 | g | Yes | Yes | 170 | 60 | 55 | K | 20.0 | | Yes | Yes | | | |
| Hexachlorocyclopentadiene | SVOC | 77-47-4 | No | 5.0 | 4.0 | 0.07 | b | 0.07 | g | Yes | Yes | 170 | 58 | NA | | NA | | NA | NA | | 10 | |
| Hexachloroethane | SVOC | 67-72-1 | No | 5.0 | 4.0 | 12 | e,m | 9.40 | g | No | No | 170 | 48 | 230 | | 180.0 | | No | No | | | |
| Indene | SVOC | 95-13-6 | No | 15 | 13 | NA | | NA | | NA | NA | 830 | 830 | NA | | NA | | NA | NA | | | |
| Indeno(1,2,3-cd)pyrene | SVOC | 193-39-5 | No | 5.0 | 1.2 | 4.3 | x | NA | | NA | NA | 170 | 66 | NA | | NA | | NA | NA | | | |
| Isophorone | SVOC | 78-59-1 | No | 5.0 | 0.89 | 6,000 | b | 650 | b | No | No | 170 | 43 | NA | | NA | | NA | NA | | | |
| Methyl Chrysene | SVOC | 1705-85-7 | No | 5.0 | 4.8 | NA | | NA | | NA | NA | 170 | 170 | NA | | NA | | NA | NA | | | |
| 1-Methylnaphthlene | SVOC | 90-12-0 | No | 5.0 | 1.5 | 2 | e | NA | | NA | NA | 170 | 36 | NA | | NA | | NA | NA | | | |
| 2-Methylnaphthalene | SVOC | 91-57-6 | No | 5.0 | 2.6 | 63 | b | 30.00 | b | No | No | 170 | 37 | NA | | 70.0 | | NA | No | | | |
| 2-Methylphenol | SVOC | 95-48-7 | No | 5.0 | 1.1 | 560 | b | 510 | b | No | No | 170 | 75 | NA | | NA | | NA | NA | | | |
| 3-Methylphenol | SVOC | 108-39-4 | No | 5.0 | 2.0 | 272 | b | 510 | b | | | | | | | | | | | | | |
| 4-Methylphenol | SVOC | 106-44-5 | No | 5.0 | 2.0 | 272 | b | NA | | NA | NA | 170 | 38 | NA | | NA | | NA | NA | | | |
| Naphthalene | SVOC | 91-20-3 | No | 5.0 | 1.5 | 250 | b | 125.00 | b | No | No | 170 | 28 | 176 | | 160.0 | | No | No | | | |
| N-Diphenylamine | SVOC | 122-39-4 | No | NA | NA | NA | | NA | | NA | NA | NA | NA | NA | | NA | | NA | NA | | | |
| 2-Nitroaniline | SVOC | 88-74-4 | No | 5.0 | 1.4 | NA | | NA | | NA | NA | 170 | 70 | NA | | NA | | NA | NA | | | |
| 3-Nitroaniline | SVOC | 99-09-2 | No | 5.0 | 1.6 | NA | | NA | | NA | NA | 170 | 43 | NA | | NA | | NA | NA | | | |
| 4-Nitroaniline | SVOC | 100-01-6 | No | 5.0 | 1.7 | NA | | NA | | NA | NA | 170 | 170 | NA | | NA | | NA | NA | | | |
| Nitrobenzene | SVOC | 98-95-3 | No | 5.0 | 0.86 | 270 | g | 66.80 | g | No | No | 170 | 50 | 510 | | 130.0 | | No | No | 40 | | |
| 4-Nitrophenol | SVOC | 100-02-7 | No | 25 | 1.3 | 532 | b | 359.00 | b | No | No | 170 | 120 | NA | | NA | | NA | NA | 7 | | |
| N-Nitroso-di-n-propylamine | SVOC | 621-64-7 | No | 5.0 | 1.1 | 20 | b | 120.00 | b | No | No | 170 | 76 | NA | | NA | | NA | NA | | | |
| N-Nitrosodiphenylamine | SVOC | 86-30-6 | No | 5.0 | 1.4 | 290 | b | 165000.00 | b | No | No | 170 | 69 | NA | | NA | | NA | NA | 20 | | |
| Pentachlorophenol | SVOC | 87-86-5 | Yes: Sed, Soil | 25 | 1.6 | 2 | c,p | 9.60 | c | No | No | 830 | 89 | NA | | NA | | NA | NA | 31 [S6,S15] | 5 [S15] | |
| Phenanthrene | SVOC | 85-01-8 | No | 5.0 | 2.0 | 30 | c | 4.60 | c | No | No | 170 | 36 | 204 | | 240.0 | | No | No | | | |
| Phenol | SVOC | 108-95-2 | No | 5.0 | 0.51 | 110 | n | 2750.00 | b | No | No | 170 | 53 | NA | | NA | | NA | NA | 30 | 70 | |
| 1-Phenylethanol | SVOC | NA | No | NA | NA | NA | | NA | | NA | NA | NA | NA | NA | | NA | | NA | NA | | | |
| Pyrene | SVOC | 129-00-0 | No | 5.0 | 1.3 | 7 | b | 0.24 | b | No | Yes | 170 | 73 | 195 | | 665 | | No | No | | | |
| Low MW PAHs | SVOC | NA | No | 5.0 | 1.3 | NA | | NA | | NA | NA | 170 | 73 | NA | | 552 | b | No | No | | | |
| High MW PAHs | SVOC | NA | No | 5.0 | 1.3 | NA | | NA | | NA | NA | 170 | 73 | NA | | 1700 | b | No | No | | | |
| Total PAHs | SVOC | NA | No | 5.0 | 1.3 | NA | | NA | | NA | NA | 170 | 73 | 4000 | b | 4022 | b | No | Yes | | | |
| Quinoline | SVOC | 91-22-5 | No | 5.0 | 5.0 | 2 | b | NA | | Yes | NA | 170 | 170 | NA | | NA | | NA | NA | | | |
| 1,2,4-Trichlorobenzene | SVOC | 120-82-1 | No | 5.0 | 2.9 | 51 | b | 22.00 | b | No | No | 170 | 40 | 880 | | 390.0 | | No | No | 20 | | |
| 2,4,5-Trichlorophenol | SVOC | 95-95-4 | No | 5.0 | 1.8 | 64 | c | 12.00 | c | No | No | 170 | 67 | NA | | NA | | NA | No | 9 | 4 | |
| 2,4,6-Trichlorophenol | SVOC | 88-06-2 | No | 5.0 | 1.2 | 14 | b | 61.00 | b | No | No | 170 | 46 | NA | | NA | | NA | No | 10 | | |
| Aldrin | Pest | 309-00-2 | Yes: Sed, Soil | 0.050 | 0.014 | 0.3 | c,k | 0.13 | c,k | No | No | 1.7 | 0.40 | 2 | B | NA | | No | No | | | |
| alpha-Chlordane | Pest | 5103-71-9 | Yes: Sed, Soil | NA | NA | NA | | NA | | NA | NA | NA | NA | NA | | NA | | NA | No | | | |
| alpha-BHC | Pest | 319-84-6 | Yes: Sed, Soil | 0.050 | 0.012 | 74 | b | 25.00 | b | No | No | 1.7 | 0.36 | 6 | B | NA | | No | No | | | |
| beta-BHC | Pest | 319-85-7 | Yes: Sed, Soil | 0.050 | 0.0080 | 83 | b | NA | | No | NA | 1.7 | 0.53 | 5 | B | NA | | No | NA | | | |
| Chlordane (technical) | Pest | 12789-03-6 | Yes: Sed, Soil | 0.50 | 0.19 | NA | | NA | | NA | NA | 17 | 2.3 | NA | | NA | | NA | NA | | | |
| 4,4'-DDD | Pest | 72-54-8 | Yes: F, M, Sed, Soil | 0.10 | 0.015 | 0.01 | e | 0.03 | g | Yes | No | 3.3 | 0.96 | 4.88 | E | 1.2 | E | No | No | | | |
| 4,4'-DDE | Pest | 72-55-9 | Yes: F, M, Sed, Soil | 0.10 | 0.017 | 11 | g | 0.14 | g | No | No | 3.3 | 1.3 | 3.16 | E | 2.1 | E | No | No | | | |
| 4,4'-DDT | Pest | 50-29-3 | Yes: F, M, Sed, Soil | 0.10 | 0.013 | 0.001 | c | 0.001 | c | Yes | Yes | 3.3 | 1.5 | 4.16 | E | 1.2 | E | No | Yes | | | |
| delta-BHC | Pest | 319-86-8 | Yes: Sed, Soil | 0.050 | 0.015 | 141 | b | NA | | No | NA | 1.7 | 0.53 | NA | | NA | | NA | NA | | | |
| Dieldrin | Pest | 60-57-1 | Yes: Sed, Soil | 0.10 | 0.013 | 0.002 | c | 0.002 | c | Yes | Yes | 3.3 | 0.89 | 1.9 | | 0.7 | D | No | Yes | | | |
| Endosulfan I | Pest | 959-98-8 | No | 0.10 | 0.0080 | 0.056 | c | 0.01 | c | No | No | 3.3 | 0.46 | NA | | NA | | NA | NA | | | |
| Endosulfan II | Pest | 33213-65-9 | No | 0.10 | 0.013 | 0.056 | c | 0.01 | c | No | Yes | 3.3 | 0.83 | NA | | NA | | NA | NA | | | |
| Endosulfan sulfate | Pest | 1031-07-8 | No | 0.10 | 0.014 | 0.056 | c | 0.01 | c | No | Yes | 3.3 | 0.96 | NA | | NA | | NA | NA | | | |
| Endrin | Pest | 72-20-8 | Yes: Sed, Soil | 0.10 | 0.019 | 0.002 | c | 0.002 | c | Yes | Yes | 3.3 | 1.1 | 2.22 | | NA | | No | NA | | | |
| Endrin aldehyde | Pest | 7421-93-4 | Yes: Sed, Soil | 0.10 | 0.017 | 1,210 | b | NA | | No | No | 3.3 | 1.4 | NA | | NA | | NA | NA | | | |
| gamma-BHC (Lindane) | Pest | 58-89-9 | Yes: Sed, Soil | 0.050 | 0.0070 | 0.08 | c | 0.02 | c,k | No | No | 1.7 | 0.73 | 2.37 | | 0.3 | D | No | Yes | | | |
| gamma-Chlordane | Pest | 5103-74-2 | Yes: Sed, Soil | NA | NA | NA | | NA | | NA | NA | NA | NA | NA | | NA | | NA | NA | | | |
| Heptachlor | Pest | 76-44-8 | Yes: Sed, Soil | 0.050 | 0.010 | 0.004 | c | 0.004 | c | Yes | Yes | 1.7 | 0.46 | NA | | NA | | NA | NA | | | |
| Heptachlor epoxide | Pest | 1024-57-3 | Yes: Sed, Soil | 0.050 | 0.0060 | 0.0038 | a | 0.004 | a | Yes | Yes | 1.7 | 0.33 | 2.47 | | NA | | No | NA | | | |
| Methoxychlor | Pest | 72-43-5 | No | 0.50 | 0.078 | 0.03 | c | 0.03 | c | Yes | Yes | 17 | 7.2 | NA | | NA | | NA | NA | | | |
| Toxaphene | Pest | 8001-35-2 | Yes: Sed, Soil | 0.50 | 0.20 | 0.0002 | c | 0.0002 | c | Yes | Yes | 17 | 12 | 0.1 | K | NA | | Yes | NA | | | |
| Aroclor-1016 | PCB | 12674-11-2 | Yes: F, M, Sed, Soil | 0.50 | 0.50 | NA | | NA | | NA | NA | 17 | 11 | 7 | B | NA | | Yes | NA | | | |
| Aroclor-1221 | PCB | 11104-28-2 | Yes: F, M, Sed, Soil | 0.50 | 0.50 | NA | | NA | | NA | NA | 17 | 17 | NA | | NA | | NA | NA | | | |
| Aroclor-1232 | PCB | 11141-16-5 | Yes: F, M, Sed, Soil | 0.50 | 0.34 | NA | | NA | | NA | NA | 17 | 9.6 | NA | | NA | | NA | NA | | | |
| Aroclor-1242 | PCB | 53469-21-9 | Yes: F, M, Sed, Soil | 0.50 | 0.16 | NA | | NA | | NA | NA | 17 | 14 | NA | | NA | | NA | NA | | | |
| Aroclor-1248 | PCB | 12672-29-6 | Yes: F, M, Sed, Soil | 0.50 | 0.37 | NA | | NA | | NA | NA | 17 | 13 | 30 | B | NA | | No | NA | | | |
| Aroclor-1254 | PCB | 27323-18-8 | Yes: F, M, Sed, Soil | 0.50 | 0.17 | NA | | NA | | NA | NA | 17 | 14 | 60 | B | NA | | No | NA | | | |

**Appendix E**
**Comparison of Quantitation Limits to Ecological Screening Standards**

| | | | | AQUEOUS | | WATER | | | | | | SOLID | | SEDIMENT | | | | | | SOIL | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Analyte | Data Group | CAS | Bioaccumulative | RL ug/L | MDL ug/L | FRESHWATER ug/l | | MARINE ug/l | | MDL>TCEQ FRESHWATER | MDL>TCEQ MARINE | RL ug/kg | MDL ug/kg | FRESHWATER ug/kg dry wt. | | MARINE ug/kg dry wt. | | MDL>TCEQ FRESHWATER | MDL>TCEQ MARINE | EARTHWORMS mg/kg dry wt. | PLANTS mg/kg dry wt. | MEDIAN BACKGROUND mg/kg dry wt. |
| Aroclor-1260 | PCB | 11096-82-5 | Yes: F, M, Sed, Soil | 0.50 | 0.23 | NA | | NA | | NA | NA | 17 | 6.9 | 5 | B | NA | | Yes | NA | | | |
| Total PCBs | PCB | 1336-36-3 | Yes: F, M, Sed, Soil | 1.00 | 0.5 | 0 | b | 0.03 | b | Yes | Yes | 33 | 17 | 59.8 | b | 22.7 | b | No | No | | 40 | |
| 2,4-D | Herb | 94-75-7 | No | 1.5 | 0.80 | NA | | NA | | NA | NA | 33 | 13 | NA | | NA | | NA | NA | | | |
| 2,4-DB | Herb | 94-82-6 | No | 2.0 | 1.9 | NA | | NA | | NA | NA | 66 | 54 | NA | | NA | | NA | NA | | | |
| Dalapon | Herb | 75-99-0 | No | 1.0 | 1.0 | NA | | NA | | NA | NA | 33 | 23 | NA | | NA | | NA | NA | | | |
| Dicamba | Herb | 1918-00-9 | No | 0.20 | 0.080 | NA | | NA | | NA | NA | 6.6 | 5.0 | NA | | NA | | NA | NA | | | |
| Dichloroprop | Herb | 120-36-5 | No | 1.0 | 0.51 | NA | | NA | | NA | NA | 33 | 8.9 | NA | | NA | | NA | NA | | | |
| Dinoseb | Herb | 88-85-7 | No | 0.20 | 0.090 | NA | | NA | | NA | NA | 6.6 | 4.3 | NA | | NA | | NA | NA | | | |
| MCPA | Herb | 94-74-6 | No | 50 | NA | NA | | NA | | NA | NA | 170 | NA | NA | | NA | | NA | NA | | | |
| MCPP | Herb | 93-65-2 | No | 50 | NA | NA | | NA | | NA | NA | 170 | NA | NA | | NA | | NA | NA | | | |
| Pentachlorophenol | Herb | 87-86-5 | Yes: Sed, Soil | 0.050 | 0.040 | 2 | c,p | 9.60 | c | NA | NA | 1.7 | 0.99 | NA | | NA | | NA | NA | 31 [S6,S15] | 5 [S15] | |
| 2,4,5-T | Herb | 93-76-5 | No | 0.20 | 0.12 | NA | | NA | | NA | NA | 6.6 | 3.3 | NA | | NA | | NA | NA | | | |
| 2,4,5-TP (Silvex) | Herb | 93-72-1 | No | 0.20 | 0.15 | NA | | NA | | NA | NA | 13 | 12 | NA | | NA | | NA | NA | | | |
| Aluminum | Metals | 7429-90-5 | No | 200 | 55.3 | 87 | a | NA | | No | NA | 200 | 25.6 | NA | | NA | | NA | NA | | | 30,000 |
| Antimony | Metals | 7440-36-0 | No | 5.0 | 1.8 | 160 | g | NA | | No | NA | 10 | 5.1 | 2000 | A | NA | | No | NA | 78 [S5,S6] | 5 | 1 |
| Arsenic (d) | Metals | 7440-38-2 | No | 5.0 | 2.7 | 190 | c,w | 78.00 | c.w | No | No | 10 | 1.7 | 9790 | | 8200.0 | | No | No | 60 | 18 [S13] | 5.9 |
| Barium | Metals | 7440-39-3 | No | 200 | 3.0 | 16,000 | b | 25000.00 | b | No | No | 200 | 2.6 | NA | | NA | | NA | NA | 330 [S6,S8] | 500 | 300 |
| Beryllium | Metals | 7440-41-7 | No | 5.0 | 0.06 | 5 | b | NA | | No | NA | 5 | 0.2 | NA | | NA | | NA | NA | 40 [S6,S9] | 10 | 1.5 |
| Cadmium | Metals | 7440-43-9 | Yes: Sed, Soil | 5.0 | 0.24 | 1 | c,f | 10.00 | c,w | No | No | 5 | 0.3 | 990 | | 1200.0 | | No | No | 140 [S6,S10] | 32 [S10] | |
| Calcium | Metals | 7440-70-2 | No | 5000 | 134.89 | NA | | NA | | NA | NA | 5000 | 73.3 | NA | | NA | | NA | NA | | | |
| Chromium | Metals | 7440-47-3 | Tri: No -- Hex: Yes-soil | 10 | 1.82 | NA | | NA | | NA | NA | 10 | 0.9 | 43400 | | 81000.0 | | No | No | 0.4 | 1 | 30 |
| Chromium (Hex) (d) | Metals | 18540-29-9 | Yes: Soil | 10 | 4 | 11 | c,w | 49.60 | c,w | No | NA | 2 | 2 | NA | | NA | | No | NA | | | |
| Chromium (Tri) (d) | Metals | 16065-83-1 | No | 3000 | NA | 101 | c,f | 103.00 | g | | | 3000 | NA | | | | | | | | | |
| Cobalt | Metals | 7440-48-4 | No | 50 | 0.99 | 1,500 | b | NA | | No | NA | 50 | 0.8 | 50000 | B | NA | | No | NA | | 13 [S11] | 7 |
| Copper (d) | Metals | 7440-50-8 | Yes: Sed, Soil | 25 | 1.42 | 7 | c,h,w | 3.60 | c,h,w | No | No | 25 | 5.4 | 31600 | | 34000.0 | | No | No | 61 [S6,S7] | 100 | 15 |
| Iron | Metals | 7439-89-6 | No | 100 | 18.97 | 1,000 | a | NA | | No | NA | 100 | 40.5 | 20000000 | B | NA | | No | NA | | | 15,000 |
| Lead (d) | Metals | 7439-92-1 | Yes; Soil | 3 | 0.7 | 1 | c,f | 5.30 | c,w | No | No | 10 | 1.2 | 35800 | | 46700.0 | | No | No | 1700 [S14] | 120 [S6,S14] | 15 |
| Magnesium | Metals | 7439-95-4 | No | 5000 | 16.8 | 3,230 | b | NA | | No | NA | 5000 | 61.5 | NA | | NA | | NA | NA | | | |
| Manganese | Metals | 7439-96-5 | No | 15 | 7.68 | 120 | e | NA | | No | NA | 15 | 9.6 | 460000 | B | NA | | No | NA | | 500 | 300 |
| Mercury | Metals | 7439-97-6 | Yes: F, M, Sed, Soil | 0.2 | NA | 1 | c | 1.10 | c | No | Yes | | | 180 | | 150.0 | | No | No | 0.1 | 0.3 | 0.04 |
| Nickel (d) | Metals | 7440-02-0 | Yes: Sed, Soil | 40 | 1.0 | 87 | c,f | 13.10 | c,w | No | No | 40 | 1.4 | 22700 | | 20900.0 | | No | No | 200 | 30 | 10 |
| Potassium | Metals | 7440-09-7 | No | 5000 | 125.2 | NA | | NA | | NA | NA | 5000 | 169.5 | NA | | NA | | NA | NA | | | |
| Selenium | Metals | 7782-49-2 | Yes: F, M, Sed, Soil | 5 | 3.2 | 5 | c | 136.00 | c | No | No | 10 | 2.7 | NA | | NA | | NA | NA | 70 | 1 | 0.3 |
| Silver (d) | Metals | 7440-22-4 | No | 10 | 0.5 | 0.1 | a,f,k | 0.19 | a,k | Yes | Yes | 10 | 1.0 | 1000 | A | 1000.0 | | No | No | | 2 | |
| Sodium | Metals | 7440-23-5 | No | 5000 | 292 | NA | | NA | | NA | NA | 5000 | 51.8 | NA | | NA | | NA | NA | | | |
| Thallium | Metals | 7440-28-0 | Yes: F, M | 10 | 1.5 | 4 | g | 21.30 | g | No | No | 20 | 5.3 | NA | | NA | | NA | NA | | 1 | 0.7 |
| Vanadium | Metals | 7440-62-2 | No | 50 | 0.4 | 20 | e | NA | | No | NA | 50 | 1.1 | NA | | NA | | NA | NA | | 2 | 50 |
| Zinc (d) | Metals | 7440-66-6 | Yes: Sed, Soil | 20 | 7.5 | 58 | c,f | 84.20 | c,w | No | No | 20 | 6.2 | 121000 | | 150000.0 | | No | No | 120 [S6,S7] | 190 [S7] | 30 |
| Cyanide (free) | Metals | 57-12-5 | No | NA | NA | 11 | c,i | 5.6 | c,i | NA | NA | NA | NA | NA | | NA | | NA | NA | | | |

Note: All Benchmark and Bioaccumulative values were obtained from TCEQ 2006 RG-263, unless otherwise noted.

RL = Reporting Limit.
MDL= Minimum Detection Limit
TCEQ = Texas Commission on Environmental Quality