

Users are advised to consult the Canadian Environmental Quality Guidelines introductory text, factsheet, and/or protocols for specific information and implementation guidance pertaining to each environmental quality guideline.

|                             |  | Sediment Quality Guidelines<br>for the Protection of Aquatic Life |                                     |      |                                     |                                     |      |
|-----------------------------|--|---|-------------------------------------|------|-------------------------------------|-------------------------------------|------|
|                             |  | Freshwater  |                                     |      | Marine                              |                                     |      |
|                             |  | Concentration<br>(µg/kg dry weight)                               | Concentration<br>(µg/kg dry weight) | Date | Concentration<br>(µg/kg dry weight) | Concentration<br>(µg/kg dry weight) | Date |
| Chemical name               | Chemical groups  | ISQG  | PEL                                 |      | ISQG                                | PEL                                 |      |
| 2-Methylnaphthalene<br>PAHs | Organic<br>Polyaromatic compounds<br>Polycyclic aromatic<br>hydrocarbons | 20.2  | 201                                 | 1998 | 20.2                                | 201                                 | 1998 |
| Acenaphthene<br>PAHs        | Organic<br>Polyaromatic compounds<br>Polycyclic aromatic<br>hydrocarbons | 6.71  | 88.9                                | 1998 | 6.71                                | 88.9                                | 1998 |
| Acenaphthylene<br>PAHs      | Organic<br>Polyaromatic compounds<br>Polycyclic aromatic<br>hydrocarbons | 5.87  | 128                                 | 1998 | 5.87                                | 128                                 | 1998 |
| Anthracene<br>PAHs          | Organic<br>Polyaromatic compounds<br>Polycyclic aromatic<br>hydrocarbons | 46.9  | 245                                 | 1998 | 46.9                                | 245                                 | 1998 |
| Aroclor 1254<br>PCBs        | Organic<br>Polyaromatic compounds<br>Polychlorinated biphenyls           | 60  | 340                                 | 2001 | 63.3                                | 709                                 | 2001 |
| Arsenic<br><br>CASRN none   | Inorganic<br>Metals  | 5900  | 17 000                              | 1998 | 7240                                | 41 600                              | 1998 |
| Benz(a)anthracene<br>PAHs   | Organic<br>Polyaromatic compounds<br>Polycyclic aromatic<br>hydrocarbons | 31.7  | 385                                 | 1998 | 74.8                                | 693                                 | 1998 |

|   |  |        |         |      |        |         |      |
|---|--|--------|---------|------|--------|---------|------|
| Benzo(a)pyrene<br>PAHs  | Organic<br>Polyaromatic compounds<br>Polycyclic aromatic<br>hydrocarbons | 31.9   | 782     | 1998 | 88.8   | 763     | 1998 |
| Cadmium<br><b>CASRN 7440439</b>   | Inorganic<br>Metals  | 600    | 3500    | 1997 | 700    | 4200    | 1997 |
| Chlordane   | Organic<br>Pesticides<br>Organochlorine compounds                        | 4.5    | 8.87    | 1998 | 2.26   | 4.79    | 1998 |
| Chromium (total)<br><b>CASRN 7440-47-3</b>  | Inorganic<br>Metals  | 37 300 | 90 000  | 1998 | 52 300 | 160 000 | 1998 |
| Chrysene<br>PAHs  | Organic<br>Polyaromatic compounds<br>Polycyclic aromatic<br>hydrocarbons | 57.1   | 862     | 1998 | 108    | 846     | 1998 |
| Copper  | Inorganic<br>Metals  | 35 700 | 197 000 | 1998 | 18 700 | 108 000 | 1998 |
| Dibenz(a,h)anthracene<br>PAHs   | Organic<br>Polyaromatic compounds<br>Polycyclic aromatic<br>hydrocarbons | 6.22   | 135     | 1998 | 6.22   | 135     | 1998 |
| Dichloro diphenyl dichloroethane, 2,2-<br>Bis (p-chlorophenyl)-1,1-dichloroethane<br>DDD        | Organic<br>Pesticides<br>Organochlorine compounds                        | 3.54   | 8.51    | 1998 | 1.22   | 7.81    | 1998 |
| Dichloro diphenyl ethylene, 1,1-<br>Dichloro-2,2-bis(p-chlorophenyl)-ethene<br>DDE              | Organic<br>Pesticides<br>Organochlorine compounds                        | 1.42   | 6.75    | 1998 | 2.07   | 374     | 1998 |
| Dichloro diphenyl trichloroethane; 2,2-<br>Bis(p-chlorophenyl)-1,1,1-<br>trichloroethane<br>DDT | Organic<br>Pesticides<br>Organochlorine compounds                        | 1.19   | 4.77    | 1998 | 1.19   | 4.77    | 1998 |
| Dieldrin  | Organic<br>Pesticides<br>Organochlorine compounds                        | 2.85   | 6.67    | 1998 | 0.71   | 4.3     | 1998 |

|  |  |        |                |      |        |                |      |
|--|--|--------|----------------|------|--------|----------------|------|
| Endrin   | Organic<br>Pesticides<br>Organochlorine compounds                        | 2.67   | 62.4           | 1998 | 2.67   | 62.4           | 1998 |
| Fluoranthene<br>PAHs                                     | Organic<br>Polyaromatic compounds<br>Polycyclic aromatic<br>hydrocarbons | 111    | 2355           | 1998 | 113    | 1494           | 1998 |
| Fluorene<br>PAHs   | Organic<br>Polyaromatic compounds<br>Polycyclic aromatic<br>hydrocarbons | 21.2   | 144            | 1998 | 21.2   | 144            | 1998 |
| Heptachlor<br>Heptachlor epoxide                         | Organic<br>Pesticides<br>Organochlorine compounds                        | 0.6    | 2.74           | 1998 | 0.6    | 2.74           | 1998 |
| Hexachlorocyclohexane<br>Lindane                         | Organic<br>Pesticides<br>Organochlorine compounds                        | 0.94   | 1.38           | 1998 | 0.32   | 0.99           | 1998 |
| Lead   | Inorganic<br>Metals  | 35 000 | 91 300         | 1998 | 30 200 | 112 000        | 1998 |
| Mercury<br><b>CASRN 7439976</b>                          | Inorganic<br>Metals  | 170    | 486            | 1997 | 130    | 700            | 1997 |
| Naphthalene<br>PAHs                                      | Organic<br>Polyaromatic compounds<br>Polycyclic aromatic<br>hydrocarbons | 34.6   | 391            | 1998 | 34.6   | 391            | 1998 |
| Nonylphenol and its ethoxylates<br><b>CASRN 84852153</b> | Organic<br>Nonylphenol and its<br>ethoxylates                            | 1400   | <i>No data</i> | 2002 | 1000   | <i>No data</i> | 2002 |
| Phenanthrene<br>PAHs                                     | Organic<br>Polyaromatic compounds<br>Polycyclic aromatic<br>hydrocarbons | 41.9   | 515            | 1998 | 86.7   | 544            | 1998 |
| Polychlorinated biphenyls<br>PCBs                        | Organic<br>Polyaromatic compounds<br>Polychlorinated biphenyls           | 34.1   | 277            | 2001 | 21.5   | 189            | 2001 |

|  |   |   |   |             |   |   |             |
|--|---|---|---|-------------|---|---|-------------|
| Polychlorinated dibenzo-p-dioxins/dibenzo furans<br>PCDDs, PCDFs | Organic<br>Polyaromatic compounds<br>Polychlorinated dioxins and furans | 0.85 ng TEQ/kg dry weight                   | 21.5 ng TEQ/kg dry weight                   | 2001        | 0.85 ng TEQ/kg dry weight                   | 21.5 ng TEQ/kg dry weight                   | 2001        |
| Pyrene<br>PAHs   | Organic<br>Polyaromatic compounds<br>Polycyclic aromatic hydrocarbons   | 53  | 875   | 1998        | 153   | 1398  | 1998        |
| Sodium adsorption ratio<br>SAR                                   |   | No data                                     | No data                                     | No data     | No data                                     | No data                                     | No data     |
|  |   | <b>Concentration<br/>(µg/kg dry weight)</b> | <b>Concentration<br/>(µg/kg dry weight)</b> | <b>Date</b> | <b>Concentration<br/>(µg/kg dry weight)</b> | <b>Concentration<br/>(µg/kg dry weight)</b> | <b>Date</b> |
| <b>Chemical name</b>   | <b>Chemical groups</b>  | <b>ISQG</b>                                 | <b>PEL</b>                                  |             | <b>ISQG</b>                                 | <b>PEL</b>                                  |             |
| Toxaphene  | Organic<br>Pesticides<br>Organochlorine compounds                       | 0.1   | No PEL derived                              | 2002        | 0.1   | No PEL derived                              | 2002        |
| Zinc   | Inorganic<br>Metals   | 123 000                                     | 315 000                                     | 1998        | 124 000                                     | 271 000                                     | 1998        |

|                                |  |                        |
|--------------------------------|--|------------------------|
| <b>Chemical name</b>           |  | <b>Chemical groups</b> |
| Sodium adsorption ratio<br>SAR |  |                        |