

*Presented below are water quality standards that are in effect for Clean Water Act purposes.*

*EPA is posting these standards as a convenience to users and has made a reasonable effort to assure their accuracy. Additionally, EPA has made a reasonable effort to identify parts of the standards that are not approved, disapproved, or are otherwise not in effect for Clean Water Act purposes.*

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| Pollutant                     | CAS #      | Freshwater Aquatic Life | Saltwater Aquatic Life | Water Supply (WS)   | Human Health (HH)   | Trout Waters (Tr)   | High Quality Waters (HQP) | Swamp Waters (Sw) | Synonyms & Other Info   | Carcinogen | Data Reference Source(s)                                   |
|-------------------------------|------------|-------------------------|------------------------|---------------------|---------------------|---------------------|---------------------------|-------------------|---|------------|--|
|                               |            | ug/l (unless noted)     | ug/l (unless noted)    | ug/l (unless noted) | ug/l (unless noted) | ug/l (unless noted) | ug/l (unless noted)       |                   |   |            |  |
| Acenaphthene                  | 83-32-9    | 60                      | 20                     | 20                  |                     | 29                  |                           |                   | 1,2-Dihydro-acenaphthylene (non-carcinogen PAH)                                   | n          | NRWQC 06/ECOTOX & RAIS 1/07                                |
| Acenaphthylene                | 208-96-8   |                         |                        |                     |                     |                     |                           |                   | (non-carcinogen PAH)  | n          |  |
| Acetaldehyde                  | 75-07-0    | 970                     | 1.4 mg/L               |                     |                     |                     |                           |                   | Acetic Aldehyde, Ethanal  | c          | ECOTOX 6/05 / RAIS & IRIS 2/07                             |
| Acetate                       | 30560-19-1 |                         |                        | 3.9                 | 140                 |                     |                           |                   |   | y          | ECOTOX & RAIS 2/07   |
| Acetochlor                    | 34256-82-1 | (LD)                    |                        | 510                 | 1.9 mg/L            |                     |                           |                   |   | n          | IRIS/RAIS 1/07<br>HHWSSA                                   |
| Acetone                       | 67-64-1    | 2.0 mg/L                | 300 mg/L               |                     |                     |                     |                           |                   | 2-propanone   | n          | ECOTOX/RAIS/IRIS 1/07                                      |
| Acetophenone                  | 98-86-2    | (LD)                    |                        | 3500                | 850000              |                     |                           |                   |   | n          | ECOTOX/RAIS/IRIS 8/07                                      |
| Acrolein                      | 107-02-8   | 1.2                     | (LD)                   |                     |                     |                     |                           |                   | 2-Propenal  | n          | ECOTOX & RAIS 2/07   |
| Acrylonitrile                 | 107-13-1   |                         |                        | 0.051               | 0.25                |                     |                           |                   | 2-Propenenitrile; ACN; AN; Acrylonitrile; Cyanoethylene; Fumigrain; Vinyl Cyanide | c          | NRWQC 06/RAIS 2/07   |
| Aldrin                        | 309-00-2   | 0.002                   | 0.003                  | 0.05 ng/L           | 0.05 ng/L           |                     |                           |                   |   | y          | NC/NRWQC 06/RAIS 1/07                                      |
| Aliphatics                    |            |                         |                        |                     |                     |                     |                           |                   |   | NA         |  |
| C5-C8 n-hexane as surrogate   |            | (LD)                    |                        | 760                 | 1.2 mg/L            |                     |                           |                   |   | NA         | ECOTOX & RAIS 1/07/ MADEP tox studies/EPIWIN database 7/03 |
| C9-C12                        |            | S                       |                        | S                   | S                   |                     |                           |                   |   | NA         | NC   |
| C9-C18 n-nonane as surrogate  |            | S                       |                        | S                   | S                   |                     |                           |                   |   | NA         | NC   |
| C18-C32 Eicosane as surrogate |            | S                       |                        | S                   | S                   |                     |                           |                   |   | NA         | NC   |
| Aluminum (at pH 6.5-9.0)      | 7429-90-5  | 87                      |                        | 6500                | 8000                |                     |                           |                   |   | n          | NRWQC 06/RAIS 1/07   |
| Aluminum Sulfate              | 10043-01-3 | 12                      | (LD)                   |                     |                     |                     |                           |                   |   | n          | ECOTOX 2/07  |
| 2-Amino-4,6-Dinitrotoluene    | 35572-78-2 | (LD)                    |                        | 6.7                 | 150                 |                     |                           |                   | 2A-DNT  | n          | ECOTOX & RAIS 2/07   |
| 4-Amino-4,6-Dinitrotoluene    | 19406-51-0 |                         |                        | 6.7                 | 150                 |                     |                           |                   | 4A-DNT  | n          | ECOTOX & RAIS 2/07   |
| Ammonium Sulfate              | 7783-20-2  | 1.9 mg/L                | (LD)                   |                     |                     |                     |                           |                   |   | n          | ECOTOX 2/07<br>EPIWIN                                      |
| Anthracene                    | 120-12-7   | 0.05                    |                        |                     | 40000               |                     |                           |                   | (non-carcinogen PAH)  | n          | NRWQC 06/ ECOTOX 3/05/ RAIS 1/07                           |
| 9,10-Anthraquinone            | 84-65-1    | (LD)                    |                        |                     |                     |                     |                           |                   | Flight Control Plus (goose deterrent)   | NA         | EPIWIN/ SePRO Corp. MSDS                                   |
| Antimony                      | 7440-36-0  | (LD)                    |                        | 5.6                 | 640                 |                     |                           |                   |   | n          | ECOTOX & RAIS 2/07/ NRWQC 06                               |
| Aromatics                     |            |                         |                        |                     |                     |                     |                           |                   |   | NA         |  |
| C9-C32 Pyrene as surrogate    |            |                         |                        | 830                 | 4.0 mg/L            |                     |                           |                   |   | n          | RAIS 1/07/ surrogate from MADEP studies                    |
| Arsenic                       | 7440-38-2  | 50                      | 50                     | 10                  | 10                  |                     |                           |                   |   | y          | NC   |

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| Asbestos                      | 1332-21-4  |  |                        | 7,000,000 fibers/L  |                     |                     |                           |                   |  | y          | NRWQC 06                       |
| Atrazine                      | 1912-24-9  | 150  | 76                     |                     |                     |                     |                           |                   |  | c          | EPA 2003 Draft Atrazine        |
| Bacterial Indicators          |            | <i>see fecal coliform and enterococcus</i> |                        |                     |                     |                     |                           |                   |  | NA         |                                |
| Barium                        | 7440-39-3  | (LD)                                       | (LD)                   | 1.0 mg/L            | 200 mg/L            |                     |                           |                   |  | n          | NC/ECOTOX, IRIS, AND RAIS 1/07 |
| Barium chloride               | 10361-37-2 | (LD)                                       |                        |                     |                     |                     |                           |                   |  | n          | EPWIN & ECOTOX 1/07            |
| a-BHC                         | 319-84-6   |  |                        | 0.0026              | 0.0049              |                     |                           |                   | alpha-BHC; a-HCH (HCH=Hexachlorocyclohexane) | y          | NRWQC 06/RAIS 1/07             |
| b-BHC                         | 319-85-7   |  |                        | 0.0091              | 0.017               |                     |                           |                   | beta-BHC, b-HCH                              | y          | NRWQC 06/RAIS 1/07             |
| d-BHC                         | 319-86-8   | (LD)                                       | (LD)                   |                     |                     |                     |                           |                   | delta-BHC, d-HCH                             | n          | ECOTOX & RAIS 1/07             |
| g-BHC (also Lindane)          | 58-89-9    | 0.01                                       | 0.004                  |                     |                     |                     |                           |                   | gamma-BHC, g-HCH                             | c          | NC/PAN 3/07                    |
| Benefin                       | 1861-40-1  | (LD)                                       |                        | 340                 | 350                 |                     |                           |                   |  | n          | ECOTOX/IRIS/RAIS 1/07          |
| Bensulide                     | 741-58-2   | (LD)                                       | (LD)                   |                     |                     |                     |                           |                   |  | NA         | CHEM ID+ECOTOX 1/07            |
| Benz(a)Anthracene PAH         | 56-55-3    |  |                        | 0.0028 Total PAH's  | 0.0311 Total PAH's  |                     |                           |                   | (PAH)  | Y          | NC                             |
| Benzene                       | 71-43-2    |  |                        | 1.19                | 51                  |                     |                           |                   |  | y          |                                |
| Benzidine                     | 92-87-5    |  |                        | 0.086 ng/L          | 0.2 ng/L            |                     |                           |                   | 4,4'-Biphenyldiamine                         | y          | NRWQC 06                       |
| Benzo(a)Pyrene PAH            | 50-32-8    |  |                        | 0.0028 Total PAH's  | 0.0311 Total PAH's  |                     |                           |                   | BaP/(PAH)                                    | y          | NC                             |
| Benzo(b)fluoranthene,3,4- PAH | 205-99-2   |  |                        | 0.0028 Total PAH's  | 0.0311 Total PAH's  |                     |                           |                   | (PAH)  | y          | NC                             |
| Benzo(g,h,i)perylene          | 191-24-2   |  |                        |                     |                     |                     |                           |                   | (non-carcinogen PAH)                         | n          |                                |
| Benzo(k)Fluoranthene PAH      | 207-08-9   |  |                        | 0.0028 Total PAH's  | 0.0311 Total PAH's  |                     |                           |                   | (PAH)  | y          | NC                             |
| Benzoic Acid                  | 65-85-0    | (LD)                                       |                        | 140 mg/L            | 5000 mg/L           |                     |                           |                   | Carboxybenzene                               | n          | ECOTOX & RAIS 1/07             |
| Benzyl Alcohol                | 100-51-6   | (LD)                                       | (LD)                   | 17 mg/L             | 6500 mg/L           |                     |                           |                   | benzene methanol                             | n          | ECOTOX & RAIS 1/07             |
| Benzyl Chloride               | 100-44-7   |  |                        | 0.19                | 2                   |                     |                           |                   | alpha-Chlorotoluene, Chloromethyl Benzene    | c          | IRIS & RAIS 1/07               |
| Beryllium                     | 7440-41-7  | 6.5  |                        |                     |                     |                     |                           |                   |  | n          | NC                             |
| Biphenyl                      | 92-52-4    | 120  | (LD)                   |                     |                     | (LD)                |                           |                   | Diphenyl; Phenylbenzene; Bibenzene           | n          | ECOTOX/RAIS/IRIS 1/07          |
| Bis (2-Chloroethyl)Ether      | 111-44-4   |  |                        | 0.03                | 0.53                |                     |                           |                   | BCEE   | y          | NRWQC 06/RAIS 1/07             |
| Bis(2-Chloroethoxy)methane    | 111-91-1   |  |                        | 100                 | 6.0 mg/L            |                     |                           |                   | dichloromethoxy ethane                       | n          | RAIS 1/07                      |

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|--------------------------------|------------|-------------------------|------------------------|--------------------------------------|---------------------|---------------------|---------------------------|-------------------|--|------------|--------------------------------|
|                                |            | ug/l (unless noted)     | ug/l (unless noted)    | ug/l (unless noted)                  | ug/l (unless noted) | ug/l (unless noted) | ug/l (unless noted)       |                   |  |            |                                |
| Bis(2-Chloroisopropyl)Ether    | 108-60-1   |                         |                        | 1.4 mg/L                             | 65 mg/L             |                     |                           |                   |  | n          | NRWQC 06                       |
| Bis(2-Ethylhexyl) Phthalate    | 117-81-7   |                         |                        | 1.2                                  | 2.2                 |                     |                           |                   | DEHP   | y          | NRWQC 06                       |
| Bis(chloromethyl)Ether         | 542-88-1   |                         |                        | 0.1 ng/L                             | 0.29 ng/L           |                     |                           |                   |  | y          | NRWQC 06/RAIS 1/07             |
| Bismuth                        | 7440-69-9  |                         |                        |                                      |                     |                     |                           |                   | no data  | n          |                                |
| Boron                          | 7440-42-8  | (LD)                    |                        |                                      |                     |                     |                           |                   |  | n          | ECOTOX 1/07                    |
| Bromoform                      | 75-25-2    |                         |                        | 4.3                                  | 140                 |                     |                           |                   | Tribromomethane  | c          | NRWQC 06 & RAIS 1/07           |
| Bromo-diphenyl Ether, p-       | 101-55-3   | (LD)                    |                        |                                      |                     |                     |                           |                   | Bromo-diphenyl Ether, 4-   | n          | ECOTOX & RAIS 1/07             |
| Butanone, 2-                   | 78-93-3    | 160 mg/L                | 20 mg/L                | 20 mg/L                              |                     |                     |                           |                   | methyl ethyl ketone; MEK   | n          | ECOTOX/RAIS/IRIS 1/07          |
| Butyl Alcohol, tert-           | 75-65-0    | 64 mg/L                 |                        |                                      |                     |                     |                           |                   | TBA  | n          | ECOTOX 3/07                    |
| Butyl benzene, n-              | 104-51-8   | 3.9                     |                        |                                      |                     |                     |                           |                   | 1-Phenylbutane   | n          | ECOTOX & EPIWIN 1/07           |
| Butyl benzene, sec-            | 135-98-8   | (LD)                    |                        |                                      |                     |                     |                           |                   |  | n          | ECOTOX & EPIWIN 1/07           |
| Butyl benzene, tetra-          | 98-06-6    | (LD)                    |                        |                                      |                     |                     |                           |                   | 1,1- Dimethylethylbenzene  | n          | ECOTOX & EPIWIN 1/07           |
| Butylate                       | 2008-41-5  | 610                     |                        | 470                                  | 650                 |                     |                           |                   | Sutan  | n          | ECOTOX & RAIS 1/07             |
| Butylbenzyl Phthalate          | 85-68-7    | 19                      | 5.1                    |                                      |                     | 8.2                 |                           |                   |  | n          | NRWQC 06 & RAIS 1/07           |
| Cadmium                        | 7440-43-9  | 2 (N)                   | 5 (N)                  |                                      |                     | 0.4 (N)             |                           |                   |  | n          | NC                             |
| Calcium                        | 7440-70-02 |                         |                        |                                      |                     |                     |                           |                   | no data  | n          |                                |
| Carbaryl (formerly Sevin)      | 63-25-2    | 0.67                    | (LD)                   |                                      |                     |                     |                           |                   | 1-naphtalenol; methylcarbamate   | n          | ECOTOX/IRIS/RAIS 1/07          |
| Carbazole                      | 86-74-8    |                         |                        | 0.76                                 | 1.3                 |                     |                           |                   |  | y          | ECOTOX/IRIS/RAIS 1/07          |
| Carbofuran                     | 1563-66-2  | 9.7                     | 0.46                   |                                      |                     |                     |                           |                   |  | n          | ECOTOX/IRIS/RAIS 1/07          |
| Carbon disulfide               | 75-15-0    | (LD)                    | (LD)                   |                                      |                     |                     |                           |                   | Dithiocarbonic Anhydride   | n          | ECOTOX & RAIS 1/07             |
| Carbon Tetrachloride           | 56-23-5    |                         |                        | 0.254                                | 1.6                 |                     |                           |                   | Benzinoform; Carbon Chloride   | y          | NC                             |
| Cerium                         | 7440-45-1  | (LD)                    |                        |                                      |                     |                     |                           |                   | Based on Lanthanum chloride data   | n          | ECOTOX & EPIWIN 1/07           |
| Cetyltrimethylammonium Bromide | 57-09-0    | (LD)                    |                        |                                      |                     |                     |                           |                   | Hexadecyltrimethylammonium bromide; N,N,N-trimethyl-1-Hexadecanaminium bromide | NA         | ECOTOX 3/07                    |
| Chlordane                      | 57-74-9    | 0.004                   | 0.004                  | 0.8 ng/L                             | 0.8 ng/L            |                     |                           |                   |  | y          | NC                             |
| Chloride                       | 16887-00-6 | 230 mg/L (AL)           |                        | 250 mg/L                             |                     |                     |                           |                   |  | n          | NC                             |
| Chlorine (TRC)                 | 7782-50-5  | 17                      | 7.5                    |                                      |                     |                     |                           |                   |  | n          | NC/NRWQC 06                    |
| Chlorinated Benzenes           |            |                         |                        | 488                                  |                     |                     |                           |                   |  | y          | NC                             |
| Chlorinated Phenols            |            |                         |                        | 1.0 (N)                              |                     |                     |                           |                   |  | NA         | NC                             |
| 3-Methyl-4-Chlorophenol        | 59-50-7    | 280                     |                        | 1.0 Total Chlorinated Phenols (N)    |                     |                     |                           |                   | organoleptic, (Chlorinated phenol)   | y          | NC/ECOTOX & RAIS 1/07          |
| Chlorobenzene                  | 108-90-7   | 140                     | (LD)                   | 130 (488 Total Chlorinated Benzenes) |                     |                     |                           |                   | Phenyl Chloride; (Chlorinated Benzene)   | n          | NC/NRWQC 06/ECOTOX & RAIS 1/07 |

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|-------------------------------|------------|-------------------------|------------------------|---|----------------------------|---------------------|---------------------------|-------------------|--|------------|-----------------------------|
|                               |            | ug/l (unless noted)     | ug/l (unless noted)    | ug/l (unless noted)                     | ug/l (unless noted)        | ug/l (unless noted) | ug/l (unless noted)       |                   |  |            |                             |
| Chlorodibromomethane          | 124-48-1   |                         |                        | 0.4                                     | 13                         |                     |                           |                   | Dibromochloromethane   | c          | NRWQC 06/RAIS 1/07          |
| Chloroethane                  | 75-00-3    |                         |                        | 12                                      | 550                        |                     |                           |                   | Ethyl Chloride   | c          | NRWQC 06/RAIS 1/07          |
| Chloroethylvinyl ether, 2-    | 110-75-8   | (LD)                    |                        |   |                            |                     |                           |                   |  | NA         | ECOTOX 1/07                 |
| Chloroform                    | 67-66-3    |                         |                        | 5.6                                     | 170                        |                     |                           |                   | Trichloromethane   | c          | NRWQC 06/RAIS 1/07          |
| Chloronaphthalene, 2-         | 91-58-7    | (LD)                    |                        | 1.0 mg/L                                | 1.6 mg/L                   |                     |                           |                   |  | n          | NRWQC 06/ECOTOX & RAIS 1/07 |
| Chlorophenol, 2-              | 95-57-8    |                         |                        | 0.1 (1.0 Total Chlorinated Phenols (N)) |                            |                     |                           |                   | (Chlorinated Phenol)   | NA         | NC/NRWQC 06                 |
| Chlorophenyl phenyl ether, 4- | 7005-72-3  | (LD)                    |                        |   |                            |                     |                           |                   |  | NA         | ECOTOX 1/07                 |
| Chlorophyll -a, corrected     |            | 40(N)                   | 40(N)                  |   |                            | 15(N)               |                           |                   |  | NA         | NC                          |
| Chlorothalonil                | 1897-45-6  | 0.62                    | 7                      |   |                            |                     |                           |                   |  | c          | ECOTOX/IRIS/RAIS 1/07       |
| Chlorpyrifos                  | 2921-88-2  | (LD)                    | (LD)                   |   |                            |                     |                           |                   |  | n          | ECOTOX & RAIS 1/07          |
| Chromium (III)                | 16065-83-1 | 74                      |                        |   |                            |                     |                           |                   |  | n          | NRWQC 06                    |
| Chromium (VI)                 | 18540-29-9 | 11                      | 50                     |   |                            |                     |                           |                   |  | n          | NRWQC 06                    |
| Chromium                      |            | 50                      | 20                     |   |                            |                     |                           |                   |  | NA         | NC                          |
| Chrysene PAH                  | 218-01-9   |                         |                        | 0.0028 Total PAH's                      | 0.018 (0.0311 Total PAH's) |                     |                           |                   | (PAH)  | y          | NC/NRWQC 06/RAIS 1/07       |
| Cobalt                        | 7440-48-4  | (LD)                    |                        | 190                                     | 270                        |                     |                           |                   |  | n          | ECOTOX/IRIS/RAIS 1/07       |
| Coliform                      |            | see fecal coliform      |                        |   |                            |                     |                           |                   |  | NA         |                             |
| Copper                        | 7440-50-8  | 7 (AL)                  | 3 (AL)                 |   |                            |                     |                           |                   |  | n          | NC                          |
| Creosote                      | 8001-58-9  |                         |                        |   |                            |                     |                           |                   | no data  | n          |                             |
| Cresol, m-                    | 108-39-4   | 2.8 mg/L (N)            | 1.5 mg/L (N)           |   |                            | 450 (N)             |                           |                   | 3-METHYLPHENOL (phenolic compounds: no fish flesh tainting)                    | n          | NC/ECOTOX & RAIS 1/07       |
| Cresol, o-                    | 95-48-7    | 830 (N)                 | 510 (N)                |   |                            | 420 (N)             |                           |                   | 2-METHYLPHENOL (phenolic compounds: no fish flesh tainting)                    | n          | NC/ECOTOX & RAIS 1/07       |
| Cresol, p-                    | 106-44-5   | 1.2 mg/L (N)            | 250 (N)                |   |                            | 400 (N)             |                           |                   | 4-Methylphenol; p-hydroxytoluene; (phenolic compounds: no fish flesh tainting) | n          | NC/ECOTOX & RAIS 1/07       |
| Cyanide                       | 57-12-5    | 5 (N)                   | 1                      |   |                            |                     |                           |                   |  | n          | NC                          |
| Cyclohexane                   | 110-82-7   | 230                     | 120                    |   |                            |                     |                           |                   |  | n          | ECOTOX/EPIWIN/RAIS 1/07     |
| D, 2,4-                       | 94-75-7    |                         | (LD)                   | 100                                     | 2.5 mg/L                   |                     |                           |                   | 2,4-Dichlorophenoxy acetic acid  | n          | NC/ECOTOX & RAIS 1/07       |
| Dacthal                       | 1861-32-1  |                         | (LD)                   | 79                                      | 100                        |                     |                           |                   |  | n          | ECOTOX/IRIS/RAIS 7/07       |
| DB, 2,4-                      | 94-82-6    | 900 (LD)                | ND                     | 270                                     |                            |                     |                           |                   |  | n          | ECOTOX/IRIS/RAIS 8/07       |
| DDD, 4,4'-                    | 72-54-8    |                         |                        | 0.31 ng/L                               | 0.31 ng/L                  |                     |                           |                   | 4,4'-Dichlorodiphenyldichloroethane  | y          | NRWQC 06/ECOTOX & RAIS 1/07 |
| DDE, 4,4'-                    | 72-55-9    |                         |                        | 0.22 ng/L                               | 0.22 ng/L                  |                     |                           |                   | p,p'-Dichlorodiphenyldichloroethylene  | y          | NRWQC 06/ECOTOX & RAIS 1/07 |

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| DDT, 4,4'-                            | 50-29-3   | 0.001                   | 0.001                  | 0.2 ng/L   | 0.2 ng/L            |                     |                           |                   | 4,4'-Dichlorodiphenyltrichloroethane              | y          | NC  |
| Demeton                               | 8065-48-3 | 0.1                     | 0.1                    |  |                     |                     |                           |                   |   | n          | NC  |
| Diazinon                              | 333-41-5  | 0.17                    | 0.82                   |  |                     |                     |                           |                   |   | n          | EPA final AWQC for Diazinon (12/2005)               |
| Dibenz(a,h)Anthracene PAH             | 53-70-3   |                         |                        | 0.0028 Total PAH's                                 | 0.0311 Total PAH's  |                     |                           |                   | 1,2,5,6-benzanthracene/ (PAH)                     | y          | NC  |
| Dibromo-3-chloropropane, 1,2-         | 96-12-8   |                         |                        | 0.033  | 0.13                |                     |                           |                   | Nemagon   | c          | ECOTOX/IRIS/RAIS 1/07                               |
| Dibromoethane, 1,2-                   | 106-93-4  |                         |                        | 0.017  | 0.31                |                     |                           |                   | EDB, ethylene dibromide                           | y          | ECOTOX/IRIS/RAIS 1/07                               |
| Dicamba                               | 1918-00-9 | (LD)                    |                        | 1.0 mg/L   |                     |                     |                           |                   | 2,5-Dichloro-6-methoxybenzoic acid                | n          | ECOTOX/IRIS/RAIS 1/07                               |
| Dichloroacetic acid (DCAA)            | 79-43-6   |                         |                        | 0.68   | 25                  |                     |                           |                   | DCAA , DCA  | y          | IRIS & RAIS 1/07                                    |
| 2,3 Dichloroaniline                   | 608-27-5  |                         |                        |  |                     |                     |                           |                   | Aniline; 2,3-Dichlorobenzenamine (no data)        | NA         |   |
| Dichlobenil                           | 1194-65-6 | (LD)                    | (LD)                   |  |                     |                     |                           |                   | 2,6-Dichlorobenzoic acid nitrile                  | n          | ECOTOX & EPIWIN 1/07                                |
| Dichlorobenzene, 1,2-(o)              | 95-50-1   | 470                     | 370                    | 420 (488 Total Chlorinated Benzenes)               |                     | 79                  |                           |                   | (Chlorinated Benzene)                             | n          | NC/NRWQC 06/ECOTOX & RAIS 1/07                      |
| Dichlorobenzene, 1,3-(m)              | 541-73-1  | 390                     | 390                    | 320 (488 Total Chlorinated Benzenes)               |                     |                     |                           |                   | (Chlorinated Benzene)                             | n          | NC/NRWQC 06/ECOTOX & RAIS 1/07                      |
| Dichlorobenzene, 1,4-(p)              | 106-46-7  | 100                     |                        | 63 (488 Total Chlorinated Benzenes)                | 190                 | 56                  |                           |                   | (Chlorinated Benzene)                             | n          | NC/NRWQC 06/ECOTOX & RAIS 1/07                      |
| Dichlorobenzidine, 3,3'-              | 91-94-1   |                         |                        | 0.021  | 0.028               |                     |                           |                   |   | y          | NRWQC 06/ECOTOX & RAIS 1/07                         |
| Dichlorobromomethane                  | 75-27-4   |                         |                        | 0.55   | 17                  |                     |                           |                   | Bromodichloromethane                              | c          | NRWQC 06/RAIS 1/07                                  |
| Dichloroethane, 1,1-                  | 75-34-3   | 20 mg/L                 |                        | 6.7 mg/L   | 170 mg/L            |                     |                           |                   |   | n          | Handbook of Environmental Data-Vershueren/RAIS 1/07 |
| Dichloroethane, 1,2-                  | 107-06-2  |                         |                        | 0.38   | 37                  |                     |                           |                   | Ethylene dichloride                               | c          | NRWQC 06/ECOTOX & RAIS 1/07                         |
| Dichloroethylene, 1,1-                | 75-35-4   | 5.4 mg/L                |                        | 330  | 7.1 mg/L            |                     |                           |                   | 1,1 DCE ; vinylidene chloride; 1,1-Dichloroethene | n          | NRWQC 06/ECOTOX & RAIS 1/07                         |
| Dichloroethylene, 1,2-trans-          | 156-60-5  |                         |                        | 140  | 10 mg/L             |                     |                           |                   | trans-1,2-DCE; trans-acetylene dichloride         | n          | NRWQC 06/ECOTOX & RAIS 1/07                         |
| Dichloroethylene, 1,2-cis-            | 156-59-2  |                         |                        | 330  | 4.9 mg/L            |                     |                           |                   | cis-1,2-dichloroethene                            | n          | ECOTOX & RAIS 1/07                                  |
| Dichloroethylene, 1,2-(Mixed Isomers) | 540-59-0  |                         |                        | 290  | 4.4 mg/L            |                     |                           |                   |   | n          | ECOTOX & RAIS 1/07                                  |
| Dichlorophenol, 2,4-                  | 120-83-2  |                         |                        | 0.3 Organoleptic (1 (N) Total Chlorinated Phenols) |                     |                     |                           |                   | (Chlorinated Phenol)                              | n          | NC/NRWQC 06   |
| Dichloropropane, 1,2-                 | 78-87-5   |                         |                        | 0.5  | 15                  |                     |                           |                   |   | y          | NRWQC 06  |

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| Pollutant                  | CAS #      | Freshwater Aquatic Life    | Saltwater Aquatic Life     | Water Supply (WS)   | Human Health (HH)   | Trout Waters (Tr)          | High Quality Waters (HQP)  | Swamp Waters (Sw) | Synonyms & Other Info  | Carcinogen | Data Reference Source(s)        |
|----------------------------|------------|----------------------------|----------------------------|---------------------|---------------------|----------------------------|----------------------------|-------------------|--|------------|---------------------------------|
|                            |            | ug/l (unless noted)        | ug/l (unless noted)        | ug/l (unless noted) | ug/l (unless noted) | ug/l (unless noted)        | ug/l (unless noted)        |                   |  |            |                                 |
| Dichloropropene, 1,3-      | 542-75-6   | 12                         |                            | 0.31                | 21                  |                            |                            |                   | cis and trans 1,3-Dichloropropylene                                | y          | NRWQC 06/ECOTOX & RAIS 1/07     |
| Dichlorvos                 | 62-73-7    | (LD)                       | 0.12                       |                     |                     |                            |                            |                   | Breakdown product of Naled   | y          | ECOTOX/IRIS/RAIS 1/07           |
| Dieldrin                   | 60-57-1    | 0.002                      | 0.002                      | 0.05 ng/L           | 0.05 ng/L           |                            |                            |                   |  | y          | NC                              |
| Diethyl Ether              | 60-29-7    | 130 mg/L                   |                            | 6.8 mg/L            | 250 mg/L            |                            |                            |                   | Ethyl Ether  | NA         | ECOTOX/IRIS/RAIS 1/07           |
| Diethyl Phthalate          | 84-66-2    | 1.2 mg/L                   | 15 mg/L                    |                     |                     | 600                        |                            |                   | DEP  | n          | ECOTOX & RAIS 1/07              |
| Dimethoate                 | 60-51-5    | 0.35                       | 120                        |                     |                     |                            |                            |                   | Cygon: o,o-Dimethyl s-(N-methyl)-carbamoylmethyl dithiophosphate   | n          | ECOTOX/IRIS/RAIS 1/07           |
| Dimethylbenzene, 1,2-      | 95-47-6    | see Xylene, o-             |                            |                     |                     |                            |                            |                   | Xylene, o-   | n          |                                 |
| Dimethylbenzene, 1,3-      | 108-38-3   | see Xylene, m-             |                            |                     |                     |                            |                            |                   | Xylene, m-   | n          |                                 |
| Dimethylbenzene, 1,4-      | 106-42-3   | see Xylene, p-             |                            |                     |                     |                            |                            |                   | Xylene, p-   | n          |                                 |
| Dimethyl Phthalate         | 131-11-3   | 3.4 mg/L                   | 2.9 mg/L                   |                     |                     | 2.8 mg/L                   |                            |                   | DMP; Benzenedicarboxylic acid; dimethyl ester                      | n          | ECOTOX & RAIS 1/07              |
| Dimethylformamide          | 68-12-2    |                            | (LD)                       | 3.4 mg/L            | 130 mg/L            |                            |                            |                   | DMF; DMFA  | n          | ECOTOX & RAIS 1/07              |
| Dimethylphenol, 2,4-       | 105-67-9   | 320 (N)                    | 66 (N)                     |                     |                     |                            |                            |                   | (phenolic compounds: no fish flesh tainting)                       | n          | NC/ECOTOX & RAIS 1/07           |
| Di-n-butyl phthalate       | 84-74-2    | 9.5                        | 4.5                        |                     |                     |                            |                            |                   | DBP  | n          | ECOTOX & RAIS 1/07              |
| 1,3-Dinitrobenzene         | 99-65-0    | (LD)                       |                            | 3.4                 | 140                 |                            |                            |                   |  | n          | ECOTOX & RAIS 1/07              |
| 2-methyl-4,6-Dinitrophenol | 534-52-1   | 12 (N)                     | (N)                        |                     | 280                 |                            |                            |                   | 4,6 Dinitro-o-cresol/ (phenolic compounds: no fish flesh tainting) | n          | NC/NRWQC 06/ECOTOX & RAIS 1/07  |
| Dinitrophenols             | 25550-58-7 | (N)                        | (N)                        | 69                  | 5.3 mg/L            |                            |                            |                   | (phenolic compounds: no fish flesh tainting)                       | n          | NC/NRWQC 06/ECOTOX & RAIS 1/07  |
| Dinitrophenol, 2,4-        | 51-28-5    | 26 (N)                     | 180 (N)                    |                     |                     | 20 (N)                     |                            |                   | 2,4-DNP (phenolic compounds: no fish flesh tainting)               | n          | NC/NRWQC 06/ ECOTOX & RAIS 2/07 |
| Dinitrotoluene, 2,4-       | 121-14-2   |                            |                            | 0.11                | 3.4                 |                            |                            |                   | 2,4-DNT  | y          | NRWQC 06/ECOTOX & RAIS 2/07     |
| Dinitrotoluene, 2,6-       | 606-20-2   |                            |                            | 0.048               | 0.71                |                            |                            |                   | 2,6-DNT  | c          | ECOTOX & RAIS 2/07              |
| Di-n-octyl phthalate       | 117-84-0   |                            |                            | 900                 | 2.5 mg/L            |                            |                            |                   |  | n          | RAIS 1/07                       |
| Dioxane, 1,4-              | 123-91-1   |                            |                            | 3.1                 | 110                 |                            |                            |                   | 1,4- diethylene dioxide  | y          | ECOTOX/IRIS/RAIS 2/07           |
| Dioxin (2,3,7,8-TCDD)      | 1746-01-6  |                            |                            | 0.000005 ng/L       | 0.000005 ng/L       |                            |                            |                   | 2,3,7,8-Tetrachlorodibenzo-p-dioxin                                | y          | NC                              |
| Diphenyl Ether             | 101-84-8   |                            |                            | 13 Organoleptic     | 50 Organoleptic     |                            |                            |                   | 1,1-oxybisbenzene; phenylether                                     | n          | Verschueren 1998                |
| Diphenylhydrazine, 1,2-    | 122-66-7   |                            |                            | 0.036               | 0.2                 |                            |                            |                   | 1,2-DPH  | y          | NRWQC 06/ECOTOX & RAIS 2/07     |
| Dissolved Gases            |            | 110% sat (N)               | 110% sat (N)               |                     |                     |                            |                            |                   |  | NA         | NC                              |
| Dissolved Oxygen           |            | not less than 5.0 mg/L (N) | not less than 5.0 mg/L (N) |                     |                     | not less than 6.0 mg/L (N) | not less than 6.0 mg/L (E) | (N)               |  | NA         | NC                              |

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|--------------------|------------|-------------------------|------------------------|--|---|---------------------|---------------------------|-------------------|--|------------|---------------------------|
|                    |            | ug/l (unless noted)     | ug/l (unless noted)    | ug/l (unless noted)                        | ug/l (unless noted)   | ug/l (unless noted) | ug/l (unless noted)       |                   |  |            |                           |
| Endosulfan         | 115-29-7   | 0.05                    | 0.009                  |  |   |                     |                           |                   | Same values apply to Endosulfan Sulfate, alpha-Endosulfan, and beta-Endosulfan | n          | NC                        |
| Endothall          | 145-73-3   | 3.9 mg/L                | 12 mg/L                | 680  |   |                     |                           |                   |  | n          | ECOTOX/IRIS/RAIS 2/07     |
| Endrin             | 72-20-8    | 0.002                   | 0.002                  |  |   |                     |                           |                   |  | n          | NC                        |
| Endrin Aldehyde    | 7421-93-4  |                         |                        | 0.29                                       | 0.3   |                     |                           |                   |  | n          | NRWQC 06/RAIS 2/07        |
| Enterococcus       |            |                         |                        |  | geomean of 35 organisms/100 mL (applicable to class SA, SB, and SC Saltwaters) (N)  |                     |                           |                   |  | NA         | NC                        |
| EPTC               | 759-94-4   |                         |                        | 580  | 1.7 mg/L  |                     |                           |                   | s-ethyl propylthiocarbamate  | NA         | IRIS & RAIS 4/07          |
| Ethanol            | 64-17-5    | 78000                   | (LD)                   |  |   |                     |                           |                   | Ethyl Alcohol  | n          | ECOTOX 3/07/ Verschuereen |
| Ethylbenzene       | 100-41-4   | 97                      | 130                    |  |   |                     |                           |                   | Phenyl Ethane  | n          | ECOTOX & RAIS 2/07        |
| Ethylene glycol    | 107-21-1   |                         |                        | 68 mg/L                                    | 2500 mg/L   |                     |                           |                   |  | n          | IRIS & RAIS 2/07          |
| Ethyl Ether        | 60-29-7    | see Diethyl Ether       |                        |  |   |                     |                           |                   | See Diethyl Ether  | n          |                           |
| Fecal Coliform     |            |                         |                        |  | geomean of 200 organisms/100 mL in Class C Freshwaters (N); and a geomean of 14 organisms/100 mL in class SA Saltwaters (N) |                     |                           |                   |  | NA         | NC                        |
| Fluoranthene       | 206-44-0   | 0.11                    | 0.22                   |  |   |                     |                           |                   | 1,2-Benzacenaphthene   | n          | ECOTOX & RAIS 2/07        |
| Fluorene           | 86-73-7    | 46                      | 50                     |  |   | 41                  |                           |                   |  | n          | ECOTOX & RAIS 2/07        |
| Fluoride           |            | 1.8 mg/L                |                        |  |   |                     |                           |                   |  | NA         | NC                        |
| Fluridone          | 59756-60-4 | 90                      | 170                    |  |   |                     |                           |                   | Avast, Sonar   | n          | ECOTOX/IRIS/RAIS 4/07     |
| Fonofos            | 944-22-9   | 0.27                    | 17                     |  |   |                     |                           |                   |  | NA         | ECOTOX/IRIS/RAIS 4/07     |
| Formaldehyde       | 50-00-0    | 1.2 mg/L                | 620                    |  |   |                     |                           |                   | Formalin   | n          | ECOTOX/IRIS/RAIS 2/07     |
| Germanium          | 7440-56-4  | (LD)                    |                        |  |   |                     |                           |                   |  | n          | ECOTOX 2/07               |
| Guthion            | 86-50-0    | 0.01                    | 0.01                   |  |   |                     |                           |                   |  | NA         | NC                        |
| Hardness, Total    |            |                         |                        | 100 mg/L Calcium Carbonate                 |   |                     |                           |                   |  | NA         | NC                        |
| Heptachlor         | 76-44-8    | 0.004                   | 0.004                  | 0.08 ng/L                                  | 0.08 ng/L   |                     |                           |                   |  | y          | NC                        |
| Heptachlor Epoxide | 1024-57-3  |                         |                        | 0.039 mg/L                                 | 0.039 ng/L  |                     |                           |                   |  | y          | NRWQC 06/RAIS 1/07        |
| Hexachlorobenzene  | 118-74-1   |                         |                        | 0.28 ng/L (488 Total Chlorinated Benzenes) | 0.29 ng/L   |                     |                           |                   | (Chlorinated Benzene)  | c          | NC/NRWQC 06/RAIS 1/07     |



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|---|------------|-------------------------|------------------------|---------------------|---------------------|---------------------|---------------------------|-------------------|---|------------|-----------------------------|
|   |            | ug/l (unless noted)     | ug/l (unless noted)    | ug/l (unless noted) | ug/l (unless noted) | ug/l (unless noted) | ug/l (unless noted)       |                   |   |            |                             |
| Hexachlorobutadiene                     | 87-68-3    |                         |                        | 0.44                | 18                  |                     |                           |                   | HCBD  | y          | NC                          |
| Hexachlorocyclo-pentadiene              | 77-47-4    | 0.07                    |                        | 1 Organoleptic      | 1.1 mg/L            |                     |                           |                   | HCCPD; Perchlorocyclopentadiene                                     | n          | NRWQC 06/ECOTOX & RAIS 2/07 |
| Hexachloroethane                        | 67-72-1    |                         |                        | 1.4                 | 3.3                 |                     |                           |                   | HCE   | c          | NRWQC 06/RAIS 1/07          |
| Hexahydro-1,3,5-Trinitro-1,3,5-Triazine | 121-82-4   |                         |                        | 0.31                | 11                  |                     |                           |                   | RDX   | c          | RAIS 2/07                   |
| Hexamine                                | 100-97-0   | 2500 mg/L               | 2500 mg/L              |                     |                     |                     |                           |                   |   | n          | ECOTOX & EPIWIN 2/07        |
| Hydrogen sulfide                        | 7783-06-4  | 0.21                    | (LD)                   |                     |                     |                     |                           |                   |   | n          | ECOTOX & RAIS 2/07          |
| Hydroxybenzenesulfonic acid             | 1333-39-7  |                         |                        |                     |                     |                     |                           |                   | Phenolsulfonic acid/ (no data)                                      | n          |                             |
| Indeno(1,2,3-cd)Pyrene PAH              | 193-39-5   |                         |                        | 0.0028 Total PAH's  | 0.0311 Total PAH's  |                     |                           |                   | PAH   | y          | NC                          |
| Iron                                    | 7439-89-6  | 1.0 mg/L (AL)           | (LD)                   |                     |                     |                     |                           |                   |   | n          | NC/ECOTOX 2/07              |
| Isophorone                              | 78-59-1    |                         |                        | 35                  | 960                 |                     |                           |                   | 1,1,3-Trimethyl-3-cyclohexene-5-one                                 | y          | NRWQC 06/RAIS 1/07          |
| Isopropanol                             | 67-63-0    | 430 mg/L                | (LD)                   |                     |                     |                     |                           |                   | Isopropyl Alcohol   | n          | ECOTOX & RAIS 3/07          |
| Isopropyl benzene                       | 98-82-8    | 320                     |                        | 1.6 mg/L            | 3.1 mg/L            |                     |                           |                   | Cumene; Cumol; Methylene(benzene)/ (Caution: low confidence in RfD) | n          | ECOTOX/IRIS/RAIS 2/07       |
| Isopropyl Ether                         | 108-20-3   | 13 mg/L                 | (LD)                   |                     |                     |                     |                           |                   | 2,2'-Oxybispropane  | n          | ECOTOX & RAIS 4/07          |
| Isopropyl toluene, p                    | 99-87-6    | (LD)                    | 2.4 mg/L               |                     |                     |                     |                           |                   | 4-Cymene  | n          | ECOTOX & RAIS 2/07          |
| Lanthanum                               | 7439-91-0  |                         |                        |                     |                     |                     |                           |                   | (see Lanthanum chloride)  | n          |                             |
| Lanthanum chloride                      | 10099-58-8 | (LD)                    |                        |                     |                     |                     |                           |                   |   | n          | ECOTOX & EPIWIN 1/07        |
| Lanthanum hydroxide                     | 14507-19-8 |                         |                        |                     |                     |                     |                           |                   | (see Lanthanum chloride)  | n          |                             |
| Lanthanum (3+) salt- Nitric acid        | 10099-59-9 |                         |                        |                     |                     |                     |                           |                   | (see Lanthanum chloride)  | n          |                             |
| Lead                                    | 7439-92-1  | 25 (N)                  | 25 (N)                 |                     |                     |                     |                           |                   |   | n          | NC                          |
| Lindane, g-BHC                          | 58-89-9    | see g-BHC               |                        |                     |                     |                     |                           |                   | (see g-BHC)   | c          |                             |
| Magnesium                               | 7439-95-4  | (LD)                    |                        |                     |                     |                     |                           |                   |   | NA         | ECOTOX 2/07                 |
| Malathion                               | 121-75-5   | 0.1                     | 0.1                    |                     |                     |                     |                           |                   |   | c          | NRWQC 06                    |
| Mancozeb                                | 8018-01-7  | (LD)                    |                        | 1.0 mg/L            | 38 mg/L             |                     |                           |                   | Carbamic Acid; ethylene-bis   | n          | ECOTOX & RAIS 2/07          |
| Manganese                               | 7439-96-5  | (LD)                    |                        | 200                 |                     |                     |                           |                   |   | n          | NC/ECOTOX & RAIS 2/07       |
| MBAS                                    |            |                         |                        | 500 (N)             |                     |                     |                           |                   | Methylene-blue-active substances (see note)                         | NA         | NC                          |
| Mercury                                 | 7439-97-6  | 0.012                   | 0.025                  |                     |                     |                     |                           |                   |   | n          | NC                          |
| Methanamine                             | 74-89-5    | (LD)                    |                        |                     |                     |                     |                           |                   | Methylamine   | n          | ECOTOX & RAIS 2/07          |
| Methanol                                | 67-56-1    |                         |                        | 17 mg/L             | 630 mg/L            |                     |                           |                   | Methyl Alcohol  | n          | RAIS 3/07                   |
| Methoxychlor                            | 72-43-5    | 0.03                    | 0.03                   |                     |                     |                     |                           |                   |   | n          | NC                          |
| Methyl Bromide                          | 74-83-9    | (LD)                    | (LD)                   | 47                  | 1.5 mg/L            |                     |                           |                   | Bromomethane  | n          | NRWQC 06/ECOTOX & RAIS 2/07 |
| Methyl Chloride                         | 74-87-3    |                         |                        | 2.6                 | 96                  |                     |                           |                   | Chloromethane   | n          | IRIS & RAIS 2/07            |
| Methylene Chloride                      | 75-09-2    |                         |                        | 4.6                 | 590                 |                     |                           |                   | Dichloromethane   | c          | NRWQC 06/RAIS 1/07          |

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|---|-------------------------|-------------------------|------------------------|---------------------|---------------------|---------------------|---------------------------|-------------------|---|------------|--|
|   |                         | ug/l (unless noted)     | ug/l (unless noted)    | ug/l (unless noted) | ug/l (unless noted) | ug/l (unless noted) | ug/l (unless noted)       |                   |   |            |  |
| Methyl-2-pentanone, 4-                                | 108-10-1                | 26 mg/L                 |                        | 2.8 mg/L            | 160 mg/L            |                     |                           |                   | methyl isobutyl ketone  | n          | ECOTOX & RAIS 2/07                         |
| Metolachlor   | 51218-45-2              | (LD)                    | (LD)                   | 4.0 mg/L            | 18 mg/L             |                     |                           |                   |   | n          | ECOTOX/IRIS/RAIS 2/07                      |
| Metribuzin  | 21087-64-9              | (LD)                    |                        | 840                 | 24 mg/L             |                     |                           |                   |   | n          | ECOTOX/IRIS/RAIS 2/07                      |
| Mirex   | 2385-85-5               | 0.001                   | 0.001                  |                     |                     |                     |                           |                   |   | c          | NC   |
| Molybdenum  | 7439-98-7               |                         | (LD)                   | 160                 | 2.0 mg/L            |                     |                           |                   |   | n          | ECOTOX 2/07<br>RAIS & IRIS 1/07            |
| MTBE  | 1634-04-4               |                         |                        | 19                  | 690                 |                     |                           |                   | Methyl Tertiary-Butyl Ether   | NA         | IRIS & RAIS 2/07                           |
| Mustard gas   | 505-60-2                |                         |                        |                     |                     |                     |                           |                   | Sulfur Mustard bis(2-chloroethyl)sulfide (no data)                            | y          | DHHS                                       |
| Naphthalene   | 91-20-3                 | 330                     | 52                     |                     |                     | 95                  |                           |                   | Mothballs   | c          | ECOTOX/IRIS/RAIS 2/07                      |
| Nickel  | 7440-02-0               | 88 (N)                  | 8.3 (N)                | 25                  |                     |                     |                           |                   |   | n          | NC   |
| Nitrate (as N)  | 14797-55-8              |                         |                        | 10.0 mg/L           |                     |                     |                           |                   | Total nitrogen may be regulated in NSW waters. See 2B .0200s for further info | n          | NC   |
| Nitrite   | 14797-65-0              |                         |                        | 2.7                 | 2.7                 |                     |                           |                   |   | n          | IRIS & RAIS 1/07                           |
| Nitrobenzene  | 98-95-3                 |                         |                        | 17                  | 30 Organoleptic     |                     |                           |                   | Mirbane Oil   | n          | NRWQC 06 & RAIS 2/07                       |
| Nitroglycerin   | 55-63-0                 |                         |                        | 2                   | 67                  |                     |                           |                   | 1,2,3-Propanetriol trinitrate   | c          | RAIS 2/07                                  |
| Nitrophenol, 2-                                       | 88-75-5                 | 8.0 mg/L (N)            | 1.6 mg/L (N)           |                     |                     |                     |                           |                   | o-Nitrophenol; ONP/ (phenolic compounds: no fish flesh tainting)              | NA         | NC/ECOTOX & RAIS 2/07                      |
| Nitrophenol, 4-                                       | 100-02-7                | 750 (N)                 | 730 (N)                | 270                 |                     | 400 (N)             |                           |                   | p-Nitrophenol; PNP/ (phenolic compounds: no fish flesh tainting)              | n          | NC/NRWQC 06/ECOTOX/IRIS/RAIS 2/07          |
| Nitrosamines ~~<br>(N-nitrosodiethyl-amine data used) | ID# NO4250000 (55-18-5) |                         |                        | 0.8 ng/L            | 0.46                |                     |                           |                   | (see note)  | y          | NRWQC 06/IRIS & RAIS 2/07/EPA 440/5-80-064 |
| Nitrosodibutylamine, N-                               | 924-16-3                |                         |                        | 0.0063              | 0.22                |                     |                           |                   |   | y          | NRWQC 06                                   |
| Nitrosodiethyl-amine, N-                              | 55-18-5                 |                         |                        | 0.8 ng/L            | 0.46                |                     |                           |                   |   | y          | NRWQC 06/IRIS & RAIS 2/07                  |
| Nitroso-di-n-Propylamine, N-                          | 621-64-7                |                         |                        | 0.005               | 0.51                |                     |                           |                   |   | y          | NRWQC 06/RAIS 1/07                         |
| Nitrosodimethyl-amine, N-                             | 62-75-9                 |                         |                        | 0.69 ng/L           | 3                   |                     |                           |                   |   | y          | NRWQC 06/IRIS & RAIS 2/07                  |
| Nitrosodiphenylamine, N-                              | 86-30-6                 |                         |                        | 3.3                 | 6                   |                     |                           |                   |   | y          | NRWQC 06/IRIS & RAIS 2/07                  |
| Nitrosopyrrolidine, N-                                | 930-55-2                |                         |                        | 0.016               | 34                  |                     |                           |                   |   | y          | NRWQC 06/RAIS 1/07                         |
| Nitrotoluene, 2-                                      | 88-72-2                 |                         |                        | 0.14                | 1.5                 |                     |                           |                   | o-Nitrotoluene  | NA         | RAIS 2/07                                  |
| Nitrotoluene, 3-                                      | 99-08-1                 | (LD)                    |                        | 620                 | 5.3 mg/L            |                     |                           |                   | m-Nitrotoluene  | NA         | ECOTOX & RAIS 2/07                         |
| Nitrotoluene, 4-                                      | 99-99-0                 |                         |                        | 1.8                 | 18                  |                     |                           |                   | p-Nitrotoluene  | NA         | RAIS 2/07                                  |
| Nonylphenol   | 25154-52-3              | 6.6 (N)                 | 1.7 (N)                |                     |                     |                     |                           |                   | (phenolic compounds: no fish flesh tainting)                                  | n          | NC/12/2005 EPA final AWQC for Nonylphenols |
| Nonylphenol,4-  | 104-40-5                |                         |                        |                     |                     |                     |                           |                   | see Nonylphenol   | NA         |  |
| n-Propyl Benzene                                      | 103-65-1                | (LD)                    | (LD)                   |                     |                     |                     |                           |                   |   | NA         | ECOTOX 2/07                                |

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| Pollutant  | CAS #      | Freshwater Aquatic Life | Saltwater Aquatic Life | Water Supply (WS)                      | Human Health (HH)   | Trout Waters (Tr)   | High Quality Waters (HQW) | Swamp Waters (Sw) | Synonyms & Other Info                                      | Carcinogen | Data Reference Source(s)       |
|--|------------|-------------------------|------------------------|--|---------------------|---------------------|---------------------------|-------------------|--|------------|--------------------------------|
|  |            | ug/l (unless noted)     | ug/l (unless noted)    | ug/l (unless noted)                    | ug/l (unless noted) | ug/l (unless noted) | ug/l (unless noted)       |                   |  |            |                                |
| Octahydro-1,3,5,7-Tetranitro-1,3,5,7-Tetrazocine | 2691-41-0  | 1.4 mg/L                | 1.7 mg/L               |  | 63 mg/L             |                     |                           |                   | HMX  | n          | ECOTOX & RAIS 2/07             |
| Oil and Grease (see OG footnote)                 |            | (N)                     | (N)                    |  |                     |                     |                           |                   |  | NA         | NC                             |
| Palladium Chloride                               | 7647101    | (LD)                    |                        |  |                     |                     |                           |                   |  | NA         | ECOTOX 5/07                    |
| Parathion  | 56-38-2    | 0.013                   | 0.178                  |  |                     |                     |                           |                   |  | n          | NC                             |
| PCB, total                                       |            | 0.001 (N)               | 0.001 (N)              | 0.064 ng/L                             | 0.064 ng/L (N)      |                     |                           |                   | polychlorinated biphenyls / (total of all identified PCBs) | y          | NC/NRWQC 06                    |
| Pentachlorobenzene                               | 608-93-5   | 0.51                    |                        | 1.4 (488 Total Chlorinated Benzenes)   | 1.5                 |                     |                           |                   | (Chlorinated Benzene)                                      | n          | NC/NRWQC 06/ECOTOX & RAIS 2/07 |
| Pentachlorophenol                                | 87-86-5    |                         |                        | 0.27 (1 (N) Total Chlorinated Phenols) | 3                   |                     |                           |                   | (Chlorinated Phenol)                                       | y          | NC/NRWQC 06/                   |
| Pentaerythritol Tetranitrate                     | 78-11-5    | (LD)                    |                        |  |                     |                     |                           |                   |  | NA         | ECOTOX 2/07                    |
| Perchlorate and Salts                            | 14797-73-0 |                         |                        | 2.5                                    | 2.8                 |                     |                           |                   |  | n          | IRIS & RAIS 4/07               |
| pH   |            | 6.0-9.0 (N)             | 6.8-8.5 (N)            |  |                     |                     |                           | (N)               |  | NA         | NC                             |
| Phenanthrene                                     | 85-01-8    | (LD)                    | (LD)                   |  |                     |                     |                           |                   |  | n          | ECOTOX & RAIS 2/07             |
| Phenol   | 108-95-2   | (N)                     | (N)                    | 300 Organoleptic                       | 300 Organoleptic    |                     |                           |                   | (phenolic compounds: no fish flesh tainting)               | n          | NC/NRWQC 06                    |
| Phenolic Compounds                               |            | (N)                     | (N)                    |  | (N)                 |                     |                           |                   | (phenolic compounds: no fish flesh tainting)               | NA         | NC                             |
| Phosphorus (elemental)                           | 7723-14-0  | (LD)                    | 0.1                    |  |                     |                     |                           |                   |  | NA         | NRWQC 06/ECOTOX 2/07           |
| Polynuclear aromatic hydrocarbons (PAH's)        |            |                         |                        | 0.0028 Total PAH's                     | 0.0311 Total PAH's  |                     |                           |                   |  | y          | NC                             |
| Potassium  | 7440.09-7  | (LD)                    |                        |  |                     |                     |                           |                   |  | n          | ECOTOX & EPIWIN 2/07           |
| Propenoic Acid                                   | 79-10-7    | (LD)                    |                        | 17 mg/L                                | 630 mg/L            |                     |                           |                   | Acrylic Acid   | n          | ECOTOX & RAIS 3/07             |
| Pyrene   | 129-00-0   |                         |                        | 830                                    | 4000                |                     |                           |                   | Benzo[de]phenanthrene/ (non-carcinogen PAH)                | n          | NRWQC 06/ RAIS 2/07            |
| Pyridine   | 110-86-1   | 5000                    | (LD)                   | 34                                     | 1300                |                     |                           |                   |  | NA         | ECOTOX/IRIS/RAIS 8/07          |
| Radioactive Substances                           |            | (N)                     | (N)                    |  | (N)                 |                     |                           |                   |  | NA         | NC                             |
| Salinity   |            |                         | (N)                    |  |                     |                     |                           |                   |  | NA         | NC                             |
| Selenium   | 7782-49-2  | 5                       | 71                     |  |                     |                     |                           |                   |  | n          | NC                             |
| SEVIN (See Carbaryl)                             | 63-25-2    |                         |                        |  |                     |                     |                           |                   |  | n          |                                |
| Sewage   |            | (N)                     | (N)                    | (N)                                    |                     |                     |                           |                   |  | NA         | NC                             |
| Silver   | 7440-22-4  | 0.06 (AL)               | 0.1 (AL)               |  |                     |                     |                           |                   |  | n          | NC                             |
| Silvex   | 93-72-1    | (LD)                    | 1.5 mg/L               | 10                                     |                     |                     |                           |                   | 2,4,5-TP; 2,4,5-Trichlorophenoxypropionic Acid             | n          | NC/ECOTOX & RAIS 2/07          |
| Sodium   | 7440-23-5  | (LD)                    |                        |  |                     |                     |                           |                   |  | n          | ECOTOX 2/07 & RAIS 9/04        |
| Sodium Sulfate                                   | 7757-82-6  | (LD)                    | (LD)                   |  |                     |                     |                           |                   |  | n          | ECOTOX & RAIS 2/07             |
| Solids, settleable                               |            | (N)                     | (N)                    |  |                     |                     |                           |                   | also includes floating solids and sludge deposits          | NA         | NC                             |

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| Pollutant                             | CAS #      | Freshwater Aquatic Life | Saltwater Aquatic Life | Water Supply (WS)                     | Human Health (HH)   | Trout Waters (Tr)   | High Quality Waters (HW) | Swamp Waters (Sw) | Synonyms & Other Info                 | Carcinogen | Data Reference Source(s)       |
|---------------------------------------|------------|-------------------------|------------------------|---------------------------------------|---------------------|---------------------|--------------------------|-------------------|---------------------------------------|------------|--------------------------------|
|                                       |            | ug/l (unless noted)     | ug/l (unless noted)    | ug/l (unless noted)                   | ug/l (unless noted) | ug/l (unless noted) | ug/l (unless noted)      |                   |                                       |            |                                |
| Solids, total dissolved               |            |                         |                        | 500 mg/L                              |                     |                     |                          |                   |                                       | NA         | NC                             |
| Solids, total suspended               |            |                         |                        |                                       |                     | HQW=10 mg/L (E)     | 20 mg/L(E)               |                   |                                       | NA         | NC                             |
| Strontium                             | 7440-24-6  |                         |                        | 14 mg/L                               | 40 mg/L             |                     |                          |                   | ethylenbenzene; styrol                | n          | IRIS & RAIS 2/07               |
| Styrene                               | 100-42-5   | (LD)                    | (LD)                   |                                       |                     |                     |                          |                   |                                       | n          | ECOTOX/IRIS/RAIS 2/07          |
| Sulfate                               | 14808-79-8 | (LD)                    |                        |                                       |                     |                     |                          |                   |                                       | n          | ECOTOX & RAIS 2/07             |
| Sulfates                              |            |                         |                        | 250 mg/L                              |                     |                     |                          |                   |                                       | n          | NC                             |
| Sulfide - Hydrogen sulfide            | 7783-06-4  | 0.21                    | 2                      |                                       |                     |                     |                          |                   |                                       | n          | NRWQC 06/ECOTOX & RAIS 2/07    |
| Temperature                           |            | (N)                     | (N)                    |                                       | (N)                 |                     |                          |                   |                                       | NA         | NC                             |
| Terbacil                              | 5902-51-2  |                         |                        | 430                                   | 9.1 mg/L            |                     |                          |                   |                                       | NA         | IRIS & RAIS 4/07               |
| Tetrachlorobenzene, 1,2,4,5-          | 95-94-3    |                         |                        | 0.97 (488 Total Chlorinated Benzenes) | 1.1                 |                     |                          |                   | (Chlorinated Benzene)                 | n          | NC/NRWQC 06/RAIS 2/07          |
| Tetrachloroethane, 1,1,2,2-           | 79-34-5    |                         |                        | 0.17                                  | 4                   |                     |                          |                   | acetosol; acetylene tetrachloride     | y          | NC                             |
| Tetrachloroethylene (PERC)            | 127-18-4   |                         |                        | 0.7                                   | 3.3                 |                     |                          |                   | PERC; PCE; perchloroethylene          | y          | NC                             |
| Thallium                              | 7440-28-0  |                         |                        | 0.24                                  | 0.47                |                     |                          |                   |                                       | n          | NRWQC 06/IRIS & RAIS 2/07      |
| Tin                                   | 7440-31-5  |                         |                        | 770                                   | 800                 |                     |                          |                   |                                       | NA         | ECOTOX/RAIS 8/07               |
| Titanium                              | 7440-32-6  |                         |                        |                                       |                     |                     |                          |                   | no data                               | n          |                                |
| Toluene                               | 108-88-3   | 11                      | 370                    |                                       |                     | 0.36                |                          |                   | methyl benzene; phenyl methane        | n          | NC/ECOTOX & RAIS 2/07          |
| Toxaphene                             | 8001-35-2  | 0.2 ng/L                | 0.2 ng/L               |                                       |                     |                     |                          |                   |                                       | y          | NC                             |
| 2,4,5-T                               | 93-76-5    |                         | 1.4 mg/L               | 68                                    | 2.5 mg/L            |                     |                          |                   | 2,4,5-Trichlorophenoxyacetic Acid     | n          | ECOTOX & RAIS 2/07             |
| 2,4,5-TP (see Silvex)                 | 93-72-1    |                         |                        |                                       |                     |                     |                          |                   |                                       | n          |                                |
| Trialkyltin                           |            | 0.07                    | 0.007                  |                                       |                     |                     |                          |                   |                                       | n          | NC                             |
| Tributyltin (TBT)                     | 56573-85-4 | 0.07                    | 0.007                  |                                       |                     |                     |                          |                   |                                       | n          | NC                             |
| Trichlorobenzene, 1,2,4-              | 120-82-1   | 61                      | 27                     | 35 (488 Total Chlorinated Benzenes)   |                     |                     |                          |                   | (Chlorinated Benzene)                 | n          | NC/NRWQC 06/ECOTOX & RAIS 2/07 |
| Trichloroethane, 1,1,1-               | 71-55-6    |                         |                        | 0.54                                  | 4.4                 |                     |                          |                   | Ethane trichloride; vinyl trichloride | c          | IRIS & RAIS 2/07               |
| Trichloroethane, 1,1,2                | 79-00-5    |                         |                        | 0.59                                  | 16                  |                     |                          |                   |                                       | c          | NRWQC 06/RAIS 2/07             |
| Trichloroethylene                     | 79-01-6    |                         |                        | 2.5                                   | 30                  |                     |                          |                   | TCE                                   | y          | NC                             |
| Trichlorofluoromethane                | 75-69-4    |                         |                        | 9.1 mg/L                              | 67 mg/L             |                     |                          |                   | Freon11; Frigen11; Arcton 11          | n          | IRIS & RAIS 2/07               |
| 1,1,2-trichloro 1,2,2-trifluoroethane | 76-13-1    |                         |                        | 710 mg/L                              | 2200 mg/L           |                     |                          |                   | Freon 113                             | n          | IRIS & RAIS 1/07               |

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|-------------------------------|-----------|-------------------------|------------------------|---------------------------------|---------------------|---------------------|---------------------------|-------------------|---|------------|---------------------------|
|                               |           | ug/l (unless noted)     | ug/l (unless noted)    | ug/l (unless noted)             | ug/l (unless noted) | ug/l (unless noted) | ug/l (unless noted)       |                   |   |            |                           |
| Trichlorophenol, 2,4,5-       | 95-95-4   | 63                      | 42                     | 1 (N) Total Chlorinated Phenols |                     | 13                  |                           |                   | (Chlorinated Phenol)                          | n          | NC/ECOTOX & RAIS 2/07     |
| Trichlorophenol, 2,4,6-       | 88-06-2   | 21                      | 110                    | 1 (N) Total Chlorinated Phenols |                     |                     |                           |                   | (Chlorinated Phenol)                          | y          | NC/ECOTOX & RAIS 2/07     |
| Trichloropropane, 1,2,3-      | 96-18-4   |                         |                        | 190                             | 2200                |                     |                           |                   | 1,2,3-TCP                                     | c          | ECOTOX / IRIS / RAIS 7/07 |
| Trimethylbenzene, 1,2,4-      | 95-63-6   | 390                     | (LD)                   |                                 |                     |                     |                           |                   |   | n          | ECOTOX & RAIS 4/07        |
| Trimethylbenzene, 1,3,5--     | 108-67-8  | 630                     | (LD)                   |                                 |                     |                     |                           |                   | Mesitylene                                    | n          | ECOTOX & RAIS 4/07        |
| Trinitrobenzene,1,3,5-        | 99-35-4   | (LD)                    |                        | 1.0 mg/L                        | 75 mg/L             |                     |                           |                   | TNB   | n          | ECOTOX & RAIS 2/07        |
| Trinitrophenylmethylnitramine | 479-45-8  |                         |                        | 140                             | 4.3 mg/L            |                     |                           |                   | Methyl-2,4,6-trinitrophenylnitramine (Tetryl) | n          | ECOTOX & RAIS 2/07        |
| Trinitrotoluene, 2,4,6-       | 118-96-7  |                         |                        | 1.1                             | 39                  |                     |                           |                   | TNT   | c          | ECOTOX & RAIS 2/07        |
| Trisodium Phosphate           | 7601-54-9 | (LD)                    |                        |                                 |                     |                     |                           |                   | Phosphoric Acid, trisodium salt               | NA         | ECOTOX 3/07               |
| Turbidity                     |           | 50/25 NTU (N)           | 25 NTU (N)             |                                 |                     | 10 NTU (N)          |                           |                   |   | NA         | NC                        |
| Vanadium                      | 7440-62-2 | (LD)                    | (LD)                   |                                 |                     |                     |                           |                   |   | NA         | ECOTOX & RAIS 2/07        |
| Vinyl Chloride                | 75-01-4   |                         |                        | 0.025                           | 2.4                 |                     |                           |                   | chloroethylene                                | y          | NC                        |
| Xylenes, mixture              | 1330-20-7 | 670                     | 370                    |                                 |                     |                     |                           |                   |   | NA         | ECOTOX/IRIS/RAIS 2/07     |
| Xylene, m-                    | 108-38-3  | 800                     | (LD)                   |                                 |                     |                     |                           |                   | Dimethylbenzene, 1,3-                         | n          | ECOTOX/IRIS/RAIS 2/07     |
| Xylene, p-                    | 106-42-3  | (LD)                    | (LD)                   |                                 |                     |                     |                           |                   | Dimethylbenzene, 1,4-                         | n          | ECOTOX/IRIS/RAIS 2/07     |
| Xylene, o-                    | 95-47-6   | 800                     | (LD)                   |                                 |                     | 400                 |                           |                   | Dimethylbenzene, 1,2-                         | n          | ECOTOX/IRIS/RAIS 2/07     |
| Yttrium                       | 7440-65-5 |                         |                        |                                 |                     |                     |                           |                   | no data                                       | n          |                           |
| Zinc                          | 7440-66-6 | 50 (AL)                 | 86 (AL)                |                                 |                     |                     |                           |                   |   | n          | NC                        |

#### References, Codes, And Additional Information

\*To determine the appropriate standard, use the most stringent of all applicable columns.For Class C, use the most stringent of freshwater (or, if applicable, saltwater) column and the Human Health column.

For a WS water, use the most stringent of Freshwater, WS & Human Health. Trout Waters & High Quality Waters likewise must adhere to the most stringent of all applicable standards

\* All metal criteria are as total recoverable metals.

\* Values in red font are 15A NCAC 2B standards

**Unit Conversions:** 1.0 mg/L = 1000.0 ug/L = 1000000.0 ng/L  
1.0 ng/L = 0.001 ug/L = 0.000001 mg/L

(AL) Action Level Standard - See 2B .0211 for additional information

(E) For effluent limits only. See 2B .0224

(HH) Standards based on consumption of fish only - see 2B .0208

(HQW) High Quality Waters - see 02B .0101 and .0201

(LD) Limited data available, call for info

(N) = Narrative standard See 2B .0211 and for WS: .0212, 0214, .0215, .0216 and .0218

(NTU) Nephelometric Turbidity Units

S = Toxicity exceeds solubility, no visible sheen or free product in water or on sediment or shoreline per 2B .0211 & .0220

(Sw) Swamp Waters - as defined by 02B .0101

(Tr) Trout Waters - as defined by 02B .0101 and 0301

(WS) Water supply standards based on consumption of water and fish - see 2B .0208

-WS standards are applicable to all Water Supply Classifications.

DHHS: TP-SM: Dept. of Health and Human Services. 2003 Toxicological Profile for Sulfur Mustard (Update)

ECOTOX = US EPA ECOTOXicology Database System

EPA 2003 Draft Atrazine: 2003 Ambient Aquatic Life WQ Criteria for Atrazine- Revised Draft; EPA-822-R-03-023

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|-----------|-------|-------------------------|------------------------|---------------------|---------------------|---------------------|---------------------------|-------------------|-----------------------|------------|--------------------------|
|           |       | ug/l (unless noted)     | ug/l (unless noted)    | ug/l (unless noted) | ug/l (unless noted) | ug/l (unless noted) | ug/l (unless noted)       |                   |                       |            |                          |

EPA 440/5-80-064: Ambient Water Quality Criteria for Nitroamines; pg. C-66

EPIWIN = EPA's Estimation Program Interface for Windows database

HHWSSA: Herbicide Handbook of the Weed Science Society of America. 1989. Sixth edition.

IRIS = EPA's Integrated Risk Information System

MADEP tox studies: Total Petroleum Hydrocarbon Criteria Working Group of the Massachusetts Department of Environmental Protection 5/2002.

MBAS: additional narrative language is located in 02B .0212, .0214, .0215, .0216, .0218

~~ N-nitrosodiethylamine (CAS # 55-18-5) toxicological data used to calculate standards(see EPA NRWQC:2002 HHCM).

Criteria applies to N-nitrosodiethylamine and other nitrosamines (exception:N-nitrosodimethylamine, N-nitrosodibutylamine, N-nitrosopyrrolidine, N-nitrosodiphenylamine, and N-nitrosodi-n-propylamine)

NC = North Carolina 15A NCAC 2B standard (Red Book standards are bolded in **red** font)

NRWQC 06= EPA's 2006 National Recommended Water Quality Criteria; 11/02 Human Health Calculation Matrix

(OG)= take the lowest LC50 available for the particular type of OG you have (or similar OG) and multiply it by a safety factor of 0.01 to obtain the criteria

PAH=Applies to total PAHs present and includes the following: benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, chrysene, dibenz(a,h)anthracene and indeno(1,2,3-cd)pyrene

PAN: Pesticide Database. <http://www.pesticideinfo.org/Index.html>

RAIS= Risk Assessment Information System; Toxicity & Chemical Specific Factors database

SePRO Corp. MSDS for 9,10-Anthraquinone

Verschueren= Handbook of Environmental Data on Chemicals, 2nd Edition; Karel Verschueren

| Carcinogenicity Color Key:                          |                 |
|---|-----------------|
| Known to cause cancer in humans (y)                 | <b>Blue</b>     |
| Not known to cause cancer in humans (n)             | <b>Green</b>    |
| Possible human carcinogen (c)                       | <b>Yellow</b>   |
| Carcinogenicity not assessed or does not apply (NA) | <b>No Color</b> |

Last Update: 8/07