

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.

The following standards, criteria, or toxic concentrations are either adopted per 15A NCAC 2B or are National Criteria per EPA. See last page for appropriate use information.

| 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) | | | | |
| 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 |
| Acephate | 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 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 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 | | | | Benzenoform; 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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| 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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| 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/ Verschueren |
| 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; Methyleneethylbenzene/ (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 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 ~~ (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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|--|------------|-------------------------|------------------------|--|---------------------|---------------------|---------------------------|-------------------|--|------------|--------------------------------|----|
| | | 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[def]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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|---------------------------------------|------------|-------------------------|------------------------|---------------------------------------|---------------------|---------------------|---------------------------|-------------------|---------------------------------------|------------|--------------------------------|
| | | 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 | | | | | n | IRIS & RAIS 2/07 |
| Styrene | 100-42-5 | (LD) | (LD) | | | | | | ethylenbenzene; styrol | 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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| 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) | | | | |
| 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 ECOTOXology 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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| 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) | | | | |

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) | Blue |
| Not known to cause cancer in humans (n) | Green |
| Possible human carcinogen (c) | Yellow |
| Carcinogenicity not assessed or does not apply (NA) | No Color |

Last Update: 8/07