

Fresh Water Aquatic Criteria	Human Health Criteria*
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Substance	<u>CASRN</u>	Chronic Toxicity (ug/l)	Acute Toxicity (ug/l)	Fish Consumption and Other (Not to Exceed) (ug/l)	MCL (ug/l)
Acrolein	<u>107-02-8</u>	21+	68+	780 290	--
Acrylonitrile	<u>107-13-1</u>	2600+	7550+	0.65 -0.25	--
Aldrin	<u>309-00-2</u>	--	<u>3.0</u>	0.079 ng 0.00005	--
<u>Aluminum</u>	<u>7429-90-5</u>	<u>750</u>	<u>750</u>	--	--
Antimony	<u>7440-36-0</u>	1600+ ==	9000+ ==	45000 ==	<u>6^f</u>
<u>Arsenic^a</u>	<u>7440-38-2</u>	<u>150</u>	<u>340</u>	17.5 ng -3.6 ⁱ	--
Arsenic (pent)		48+	850+	--	--
Arsenic (tri)^a		190	360	--	--
<u>Barium</u>	<u>7440-39-3</u>	--	--	--	<u>2000^f</u>
Benzene	<u>71-43-2</u>	--	5300+ ==	40 ==	<u>5^f</u>
Benzidine	<u>92-87-5</u>	--	2500+ ==	0.53 ng -0.0002	--
Beryllium	<u>7440-41-7</u>	<u>5.3</u>	<u>130</u>	117 ng ==	<u>4^f</u>
Benzene Hexachloride		--	100+	--	--
Cadmium ^a	<u>7440-43-9</u>	$\frac{e(0.7852[\ln(\text{hd})]-3.490)}{e(0.7409[\ln(\text{hd})]-4.719)}(\text{CF})$	$\frac{e(1.128[\ln(\text{hd})]-3.828)}{e(1.0166[\ln(\text{hd})]-3.924)}(\text{CF})$	--	<u>5^f</u>
Carbon Tetrachloride	<u>56-23-5</u>	--	35200+ ==	6.94 -1.6	--
Chlordane	<u>57-74-9</u>	<u>0.0043</u>	<u>2.4</u>	0.48 ng -0.00081	--
<u>Chlorobenzene</u>	<u>108-90-7</u>	--	--	<u>20^d</u>	--
<u>Chlorodibromomethane</u>	<u>124-48-1</u>	--	--	34 13	--
Chlorinated Benzenes		50+	250+	--	--
Chlorinated Naphthalenes		--	1600+	--	--

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<u>2-Chloronaphthalene</u>	<u>91-58-7</u>	==	==	<u>1600</u>	==
Chlorine	<u>7782-50-5</u>	11 <u>3</u>	<u>19</u>	==	==
Chloroalkyl Ethers		--	238000+	--	--
Chloroethyl Ether (BIS-2) Bis(2-Chloroethyl) Ether	<u>111-44-4</u>	==	==	1.36 <u>0.53</u>	==
Chloroform	67-66-3	1240+	28900+	15.7	==
Chloroisopropyl Ether (BIS-2) Bis(2-Chloroisopropyl) Ether	<u>108-60-1</u>	==	==	4.36 mg <u>65000</u>	==
Chloromethyl Ether (BIS) Bis(Chloromethyl) Ether	<u>542-88-1</u>	==	==	0.00184 <u>0.00029</u>	==
<u>2-Chlorophenol 2</u>	<u>95-57-8</u>	2000+ ==	4380+ ==	<u>0.1^d</u>	==
Chloro-4 Methyl-3 Phenol <u>3-Methyl-4-Chlorophenol</u>	<u>59-50-7</u>	==	30+ ==	<u>3000^d</u>	==
Chlorpyrifos	<u>2921-88-2</u>	<u>0.041</u>	<u>0.083</u>	==	==
Chromium (tri III) ^a	<u>16065-83-1</u>	e(0.8190[ln(hd)]+ 1.561 <u>0.534</u>)	e(0.8190[ln(hd)]+ 3.688 <u>2.5736</u>)	3.433 mg	<u>100</u>
Chromium (hex VI) ^a	<u>18540-29-9</u>	11 <u>10.58</u>	16 <u>15.71</u>	==	<u>100</u>
Copper ^a	<u>7440-50-8</u>	e(0.8545[ln(hd)]- 1.465 <u>1.7428</u>)	e(0.9422[ln(hd)]- 1.464 <u>1.7408</u>)	<u>1000^d</u>	==
Cyanide	<u>57-12-5</u>	5.2	<u>22</u>	==	==
<u>4,4'-DDT</u>	<u>50-29-3</u>	<u>0.001</u>	<u>1.1</u>	0.024ng <u>0.00022</u>	==

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DDT Metabolite (DDE) 4,4'-DDE	<u>72-55-9</u>	==	1050+ ==	<u>0.00022</u>	==
DDE Metabolite (TDE) 4,4'-DDD	<u>72-54-8</u>	==	0.06+ ==	<u>0.00031</u>	==
Demeton	<u>8065-48-3</u>	<u>0.1</u>	==	==	==
Diazinon	<u>33-41-5</u>	<u>0.17</u>	<u>0.17</u>	==	==
Dibutylphthalate Di-n-Butyl Phthalate	<u>84-74-2</u>	==	==	154 mg <u>4500</u>	==
1,2-Dichlorobenzene	<u>95-50-1</u>	763+ ==	1120+ ==	2.6 mg ==	<u>600^f</u>
1,3-Dichlorobenzene	<u>541-73-1</u>	==	==	<u>960</u>	==
1,4-Dichlorobenzene	<u>106-46-7</u>	==	==	==	<u>75^f</u>
Dichlorobenzidine 3,3'-Dichlorobenzidine	<u>91-94-1</u>	==	==	0.020 <u>0.028</u>	==
Dichlorobromomethane	<u>75-27-4</u>	==	==	<u>17</u>	==
1,2'-Dichloroethane 1,2	<u>107-06-2</u>	20000+ ==	118000+ ==	243- ==	<u>5^f</u>
Dichloroethylenes		==	11600+	1.85 mg	==
1,1-Dichloroethylene	<u>75-35-4</u>	==	==	<u>32</u>	<u>7^f</u>
1,2-Trans-Dichloroethylene	<u>156-60-5</u>	==	==	==	<u>100^f</u>
2,4-Dichlorophenol 2,4	<u>120-83-2</u>	365+ ==	2020+ ==	<u>0.3^d</u>	==
2,4-Dichlorophenoxy-acetic acid (2,4-D)	<u>94-75-7</u>	==	==	==	<u>70^f</u>
1,2-Dichloropropane	<u>78-87-5</u>	5700+ ==	23000+ ==	==	<u>5^f</u>
1,3-Dichloropropene	<u>542-75-6</u>	244+ ==	6060+ ==	14.1 mg <u>1700</u>	==
Dieldrin	<u>60-57-1</u>	0.0019 <u>0.056</u>	2.5 <u>0.24</u>	0.076 ng <u>0.000054</u>	==

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Diethyl phthalate	<u>84-66-2</u>	==	==	1.8 g <u>44000</u>	==
<u>2,4-Dimethyl Phenol</u>	<u>105-67-9</u>	==	2120+ ==	<u>400</u> ^d	==
Dimethyl phthalate	<u>131-11-3</u>	==	==	2.9 g <u>1100000</u>	==
<u>2,4-Dinitrotoluene</u> 2,4	<u>121-14-2</u>	==	==	9.1 <u>3.4</u>	==
Dinitrotoluene		230+	330+	--	--
Dinitro Phenols		--	--	14.3 g	--
<u>2,4-Dinitrophenol</u>	<u>51-28-5</u>	==	==	14000 <u>5300</u>	==
Dinitro O-Cresol <u>2,4</u> <u>2-Methyl-4,6-</u> <u>Dinitrophenol</u>	<u>534-52-1</u>	==	==	765 <u>280</u>	==
Dioxin (2,3,7,8- TCDD)	<u>1746-01-6</u>	0.00001+ ==	0.01+ ==	0.000014ng <u>0.0000000051</u>	==
Diphenylhydrazine		--	--	0.56 mg	--
<u>1,2-</u> Diphenylhydrazine 1,2	<u>122-66-7</u>	==	270+ ==	0.54 <u>0.20</u>	==
Di-Bis 2- Ethylhexylphthalate	<u>117-81-7</u>	==	==	50 mg <u>2.2</u>	==
<u>Endosulfan, alpha</u>	<u>959-98-8</u>	<u>0.056</u>	<u>0.22</u>	<u>89</u>	==
<u>Endosulfan, beta</u>	<u>33213-65-9</u>	<u>0.056</u>	<u>0.22</u>	<u>89</u>	==
Endosulfan Sulfate	<u>1031-07-8</u>	0.056 ==	0.22 ==	159 <u>89</u>	==
Endrin	<u>72-20-8</u>	0.0023 <u>0.036</u>	0.18 <u>0.086</u>	<u>0.81</u>	==
<u>Endrin Aldehyde</u>	<u>7421-93-4</u>	==	==	<u>0.30</u>	==
Ethylbenzene	<u>100-41-4</u>	==	32000+ ==	3.28 mg ==	<u>700</u> ^f
Fluoranthene	<u>206-44-0</u>	==	3980+ ==	54 <u>140</u>	==
Fluoride	<u>16984-48-8</u>	==	==	==	<u>4000</u> ^f

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Guthion	<u>86-50-0</u>	<u>0.01</u>	==	==	==
Haloethers		122+	360+	--	--
Halomethanes		--	11000+	15.7 mg	--
Heptachlor	<u>76-44-8</u>	0.0038	0.52	0.29 ng-0.000079	==
<u>Heptachlor epoxide</u>	<u>1024-57-3</u>	<u>0.0038</u>	<u>0.52</u>	<u>0.000039</u>	==
Hexachloroethane	<u>67-72-1</u>	540+ ==	980+ ==	8.74-3.3	==
Hexachlorobenzene	<u>118-74-1</u>	==	==	0.74 ng-0.00029	==
Hexachlorobutadiene	<u>87-68-3</u>	9.3+ ==	90+ ==	50-18	==
Hexachlorocyclohexane (Lindane)		0.08	2	--	--
Hexachlorocyclohexane-Alpha-alpha-BHC	<u>319-84-6</u>	==	==	31 ng-0.0049	==
Hexachlorocyclohexane-Beta beta-BHC	<u>319-85-7</u>	==	==	54.7 ng-0.017	==
Hexachlorocyclohexane-Gama-gamma-BHC (Lindane)	<u>58-89-9</u>	==	<u>0.95</u>	62.5 ng-0.063	==
Hexachlorocyclohexane-Technical-delta-BHC	<u>319-86-8</u>	==	==	0.0414 ==	==
Hexachlorocyclopentadiene	<u>77-47-4</u>	5.2+ ==	7+ ==	<u>1^d</u>	==
Iron	<u>7439-89-6</u>	1000	==	==	==
Isophorone	<u>78-59-1</u>	==	117000+ ==	520 mg-960	==
Naphthalene	<u>91-20-3</u>	620+ ==	2300+ ==	e	==
Lead ^a	<u>7439-92-1</u>	e(1.273[ln(hd)]-4.705) (CF)	e(1.273[ln(hd)]-1.460) (CF)	50 mg-e	==
Malathion	<u>121-75-5</u>	0.1	==	==	==
Manganese	<u>7439-96-5</u>	==	==	100	==
Mercury ^b	<u>7439-97-6</u>	0.012	2.4	146 ng-0.051	==

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Methylmercury		==	==	<u>0.3 mg/kg in fish tissue^g</u>	==
<u>Methyl Bromide</u>	<u>74-83-9</u>	==	==	<u>1500</u>	==
Methyl Chloride	<u>74-87-3</u>	==	==	e	==
<u>Methylene Chloride</u>	<u>75-09-2</u>	==	==	<u>590</u>	==
Methoxychlor	<u>72-43-5</u>	0.03	==	==	<u>40^f</u>
Mirex	<u>2385-85-5</u>	0.001	==	==	==
Napthalene	<u>91-20-3</u>	620+ ==	2300+ ==	e	==
Nickel ^a	<u>7440-02-0</u>	e(0.8460[ln(hd)]+ 1.1645-0.0554)	e(0.8460[ln(hd)]+ 3.3612-2.253)	100 4600	==
<u>Nitrate</u>	<u>14797-55-8</u>	==	==	==	<u>10000^f</u>
Nitrobenzene	<u>98-95-3</u>	==	27000+ ==	<u>30^d</u>	==
Nitrophenols		150+	230+ ==	--	--
Nitrosamines		==	5850+ ==	1240 ng-1.24	==
Nitrosodibutylamine N	<u>924-16-3</u>	==	==	587 ng-0.22	==
Nitrosodiethylamine N	<u>55-18-5</u>	==	==	1240 ng-1.24	==
N- Nitrosodimethylamine	<u>62-75-9</u>	==	==	16000 ng-3.0	==
N-Nitrosodi-n- Propylamine	<u>621-64-7</u>	==	==	<u>0.51</u>	==
N- Nitrosodiphenylamine	<u>86-30-6</u>	==	==	16100 ng-6.0	==
N-Nitrosopyrrolidine	<u>930-55-2</u>	==	==	91900 ng-34	==

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<u>Nonylphenol</u>	<u>84852-15-3</u> <u>25154-52-3</u>	<u>6.6</u>	<u>28</u>	<u>==</u>	<u>==</u>
Parathion	<u>56-38-2</u>	0.013	0.065	<u>==</u>	<u>==</u>
Polychlorinated Biphenyls	<u>xx-xx-x</u>	0.014	<u>2.0</u> <u>==</u>	<u>0.079 ng</u> <u>0.000064</u>	<u>==</u>
Pentachlorinated Ethanes		<u>1100+</u>	<u>7240+</u>	<u>-</u>	<u>-</u>
Pentachlorobenzene	<u>608-93-5</u>	<u>==</u>	<u>--</u>	<u>85-1.5</u>	<u>==</u>
Pentachlorophenol	<u>87-86-5</u>	<u>e(1.005(pH)-5.290-5.134)</u>	<u>e(1.005 (pH)-4.830-4.869)</u>	<u>==</u>	<u>1^f</u>
Phenol	<u>108-95-2</u>	<u>2560+</u> <u>==</u>	<u>10200+</u> <u>==</u>	<u>300^d</u>	<u>==</u>
Phosphorus Elemental		<u>-</u>	<u>-</u>	<u>--</u>	<u>--</u>
Phthalate Esters		<u>3+</u>	<u>940+</u>	<u>-</u>	<u>-</u>
Polynuclear Aromatic Hydrocarbons (PAH's)		<u>==</u>	<u>==</u>	<u>31.1 ng</u>	<u>==</u>
<u>Anthracene</u>	<u>120-12-7</u> <u>56-55-3</u>	<u>==</u>	<u>==</u>	<u>40000</u>	<u>==</u>
<u>Benzo(a)Anthracene</u>	<u>50-32-8</u>	<u>==</u>	<u>==</u>	<u>0.018</u>	<u>==</u>
<u>Benzo(a)Pyrene</u>	<u>205-99-2</u>	<u>==</u>	<u>==</u>	<u>0.018</u>	<u>==</u>
<u>Benzo(b)Fluoranthene</u>	<u>191-24-2</u>	<u>==</u>	<u>==</u>	<u>0.018</u>	<u>==</u>
<u>Benzo(ghi)Perylene</u>	<u>207-08-9</u>	<u>==</u>	<u>==</u>	<u>e</u>	<u>==</u>
<u>Benzo(k)Fluoranthene</u>	<u>7005-72-3</u>	<u>==</u>	<u>==</u>	<u>0.018</u>	<u>==</u>
<u>4-Bromophenyl Phenyl Ether</u>	<u>218-01-9</u> <u>101-55-3</u>	<u>==</u>	<u>==</u>	<u>e</u>	<u>==</u>
<u>Chysene</u>	<u>53-70-3</u>	<u>==</u>	<u>==</u>	<u>0.049</u> <u>==</u>	<u>==</u>
<u>Dibenzo(a,h)Anthracene</u>	<u>218-01-9</u>	<u>==</u>	<u>==</u>	<u>0.018</u>	<u>==</u>
<u>Flourene</u>	<u>86-73-7</u> <u>70-3</u>	<u>==</u>	<u>==</u>	<u>14000-0.018</u>	<u>==</u>
<u>Ideno 1,2,3-cdPyrene</u>	<u>86-73-7</u> <u>70-3</u>	<u>==</u>	<u>==</u>	<u>0.049-5300</u>	<u>==</u>
<u>Phenanthrene</u>	<u>193-39-5</u>	<u>==</u>	<u>==</u>	<u>e-0.018</u>	<u>==</u>
<u>Pyrene</u>	<u>86-73-7</u> <u>85-01-8</u> <u>93-39-5</u> <u>129-00-0</u> <u>85-01-8</u> <u>129-00-0</u>	<u>==</u>	<u>==</u>	<u>11000 e</u> <u>4000</u>	<u>==</u>

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Selenium ^b	<u>7782-49-2</u>	<u>35-2</u>	<u>260-20</u>	--	--
Silver ^{ba}	<u>7440-22-4</u>	<u>0.12--</u>	e(1.72[ln(hd)]- <u>6.52-6.7525</u>)	--	--
Sulfide-Hydrogen Sulfide	<u>7783-06-4</u>	2	--	--	--
Tetrachlorinated Ethanes		--	<u>9320+</u>	--	--
Tetrachlorobenzene 1,2,4,5	<u>95-94-3</u>	--	--	<u>48-1.1</u>	--
1,1,2,2-Tetrachloroethane	<u>79-34-5</u>	<u>2400+--</u>	--	<u>10.7-4.0</u>	--
Tetrachloroethanes		--	<u>9320+</u>	--	--
Tetrachloroethylene	<u>127-18-4</u>	<u>840+--</u>	<u>5280+--</u>	<u>8.85-3.3</u>	--
Thallium	<u>7440-28-0</u>	<u>40+--</u>	<u>1400+--</u>	<u>48--</u>	<u>2^f</u>
Toluene	<u>108-88-3</u>	--	<u>17500+--</u>	<u>424 mg--</u>	<u>1000^f</u>
Toxaphene	<u>8001-35-2</u>	0.0002	0.73	<u>0.00028</u>	--
Trichlorinated Ethanes		--	<u>18000+</u>	--	--
1,2,4 Trichlorobenzene	<u>120-82-1</u>	--	--	--	<u>70^f</u>
1,1,1-Trichloroethane 1,1,1	<u>71-55-6</u>	--	--	<u>1.03 g--</u>	<u>200^f</u>
1,1,2-Trichloroethane 1,1,2	<u>79-00-5</u>	<u>9400+--</u>	--	<u>41.8--</u>	<u>5^f</u>
Trichloroethylene	<u>79-01-6</u>	<u>21900+--</u>	<u>45000+--</u>	<u>80.7--</u>	<u>5^f</u>
2,4,6-Trichlorophenol 2,4,6	<u>88-06-2</u>	<u>970+--</u>	--	<u>3.6-2.0</u>	--
2-(2,4,5-Trichlorophenoxy) Propionic acid (Silvex)	<u>93-72-1</u>	--	--	--	<u>50^f</u>

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<u>TTHM (Sum of total Trihalomethanes)</u>					<u>100^f</u>
<u>Bromodichloromethane</u>	<u>75-27-4</u>	--	--	<u>17</u>	--
<u>Bromoform</u>	<u>75-25-2</u>	--	--	<u>140</u>	--
<u>Chloroform</u>	<u>67-66-3</u>	--	--	<u>470</u>	--
<u>Dibromochloromethane</u>	<u>124-48-1</u>	--	--	<u>13</u>	--
Vinyl Chloride	<u>75-01-4</u>	--	--	525 --	<u>2^f</u>
Zinc ^a	<u>7440-66-6</u>	e(0.8473[ln(hd)]+ 0.7614 -0.8699)	e(0.8473[ln(hd)]+ 0.8604 -0.8618)	--	--

* The values stated as Human Health Criteria for these substances are based on the assumption that fish from the surface waters covered by the PUEBLO OF SANDIA Water Quality Standards are consumed, but water from these surface waters is not regularly ingested. A risk 10⁻⁶ is assumed for carcinogens. Where no criterion exists based on fish consumption, MCLs and background conditions are used as the basis of the water quality standard of protection.

~~+ -- = Insufficient data to develop criteria. Value presented is the lowest observed effect level ("L.O.E.L."). Site specific information may be used to modify these L.O.E.L.'s.~~

-- = no criterion exists

hd = hardness

ln = natural log of number

CF = Conversion Factor (for hardness dependent metals)

For Cadmium: Acute CF is 1.136672-[ln(hd)(0.041838)]

Chronic CF is 1.101672-[ln(hd)(0.041838)]

For Lead: Acute CF is 1.46203-[ln(hd)(0.145712)]

Chronic CF is 1.46203-[ln(hd)(0.145712)]

a ≡ value based on using a dissolved method.

b ≡ total recoverable

c ≡ Chronic and acute toxicity averaging periods and exceedances are as specified by the U.S. Environmental Protection Agency in ?Quality Criteria for Water, 1986.@

d = based on Gold Book Organoleptic effect criteria

e = EPA has not calculated human health criterion for this contaminant. However, permit authorities should address this contaminant in NPDES permit actions using SANDIA's narrative criteria for toxics.

f = Based on Maximum Contaminant Levels (MCLs).

g = Concentrations of mercury from all sources shall not result in methylmercury concentrations in fish tissue that exceed 0.3 mg/kg. This criterion is based on a fish consumption rate of 17.5 g/day.

h = This value cannot be exceeded by itself, or as part of Total Trihalomethanes that include:
Bromodichloromethane (CASN 74-97-5)
Dibromochloromethane(CASN 124-48-1)

Tribromomethane [Bromoform (CASN 75-25-2)]

Trichloromethane [Chloroform (CASN 67-66-3)]

i = Based on background conditions of the Rio Grande

~~g = grams~~

~~mg = milligrams~~

ug = micrograms

~~ng = nanograms~~

mg/l = milligrams/liter

ug/l = micrograms/liter

As new criteria documents for toxic substances are published by EPA, these will become incorporated into and made a part of this Subsection ~~N~~ O, TOXIC SUBSTANCES, during triennial review, and the numeric criteria established by EPA shall equally apply. Numeric criteria for carcinogens will reflect a risk level of one in a million.

For specific **segments** where the above criteria may need to be recalculated using appropriate species or water quality factors, the PUEBLO OF SANDIA may, after public participation and EPA approval, adopt site-specific criterion modifications. Since pesticides and PCB's can accumulate in bottom sediments and tissues of aquatic organisms, sediment and tissue analysis shall routinely be used to complement water analysis. Fish tissue levels in excess of **FDA Action Limits** shall require investigation.