

The Risk Assessment Information System Compendium of Ecological Screening Benchmarks for Chemicals and Radionuclides (2025) (Volume V – Chemicals for Surface Water: General)



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**THE RISK ASSESSMENT INFORMATION SYSTEM COMPENDIUM OF
ECOLOGICAL SCREENING BENCHMARKS FOR CHEMICALS AND
RADIONUCLIDES (2025) (VOLUME V – CHEMICALS FOR SURFACE WATER:
GENERAL)**

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CONTENTS

LIST OF TABLES.....	iii
1. INTRODUCTION.....	15
2. CHEMICAL BENCHMARKS FOR SURFACE WATER.....	16
3. CHEMICAL FOOTNOTES.....	404

LIST OF TABLES

Table 1: Benchmark Values for Acenaphthene in Surface Water.....	16
Table 2: Benchmark Values for Acenaphthylene in Surface Water.....	18
Table 3: Benchmark Values for Acephate in Surface Water.....	20
Table 4: Benchmark Values for Acetic acid, 2-(4-Chloro-2-methylphenoxy) (MCPA) in Surface Water.....	20
Table 5: Benchmark Values for Acetochlor in Surface Water.....	20
Table 6: Benchmark Values for Acetone in Surface Water.....	21
Table 7: Benchmark Values for Acetonitrile in Surface Water.....	23
Table 8: Benchmark Values for Acetophenone in Surface Water.....	23
Table 9: Benchmark Values for Acetylaminofluorene, 2- in Surface Water.....	24
Table 10: Benchmark Values for Acrolein in Surface Water.....	24
Table 11: Benchmark Values for Acrylamide in Surface Water.....	24
Table 12: Benchmark Values for Acrylonitrile in Surface Water.....	25
Table 13: Benchmark Values for ADBAC in Surface Water.....	25
Table 14: Benchmark Values for Alachlor in Surface Water.....	25
Table 15: Benchmark Values for Aldicarb Sulfone in Surface Water.....	26
Table 16: Benchmark Values for Aldicarb sulfoxide in Surface Water.....	26
Table 17: Benchmark Values for Aldicarb in Surface Water.....	26
Table 18: Benchmark Values for Aldrin in Surface Water.....	27
Table 19: Benchmark Values for Allyl Alcohol in Surface Water.....	27
Table 20: Benchmark Values for Aluminum Phosphide in Surface Water.....	27
Table 21: Benchmark Values for Aluminum in Surface Water.....	28
Table 22: Benchmark Values for Ametryn in Surface Water.....	30
Table 23: Benchmark Values for Ammonia in Surface Water.....	30
Table 24: Benchmark Values for Ammonium Sulfamate in Surface Water.....	31
Table 25: Benchmark Values for Aniline in Surface Water.....	31
Table 26: Benchmark Values for Anthracene in Surface Water.....	32
Table 27: Benchmark Values for Antimony (metallic) in Surface Water.....	34
Table 28: Benchmark Values for Antimycin A in Surface Water.....	36
Table 29: Benchmark Values for Aroclor 1016 in Surface Water.....	36
Table 30: Benchmark Values for Aroclor 1221 in Surface Water.....	37
Table 31: Benchmark Values for Aroclor 1232 in Surface Water.....	37
Table 32: Benchmark Values for Aroclor 1242 in Surface Water.....	38
Table 33: Benchmark Values for Aroclor 1248 in Surface Water.....	40
Table 34: Benchmark Values for Aroclor 1254 in Surface Water.....	42
Table 35: Benchmark Values for Aroclor 1260 in Surface Water.....	44
Table 36: Benchmark Values for Arsenic (III) in Surface Water.....	46
Table 37: Benchmark Values for Arsenic V in Surface Water.....	47

Table 38: Benchmark Values for Arsenic, Inorganic in Surface Water	48
Table 39: Benchmark Values for Atrazine in Surface Water	50
Table 40: Benchmark Values for Azinphos–methyl in Surface Water	50
Table 41: Benchmark Values for Barium in Surface Water.....	51
Table 42: Benchmark Values for Benomyl in Surface Water	52
Table 43: Benchmark Values for Benz[a]anthracene in Surface Water	53
Table 44: Benchmark Values for Benzaldehyde in Surface Water	54
Table 45: Benchmark Values for Benzanthracene/chrysenes, C1– in Surface Water.....	55
Table 46: Benchmark Values for Benzanthracene/chrysenes, C2– in Surface Water.....	55
Table 47: Benchmark Values for Benzanthracene/chrysenes, C3– in Surface Water.....	55
Table 48: Benchmark Values for Benzanthracene/chrysenes, C4– in Surface Water.....	56
Table 49: Benchmark Values for Benzene (2–bromo–2–nitroethenyl) in Surface Water	56
Table 50: Benchmark Values for Benzene in Surface Water	57
Table 51: Benchmark Values for Benzidine in Surface Water	59
Table 52: Benchmark Values for Benzo[a]fluorene in Surface Water	59
Table 53: Benchmark Values for Benzo[a]pyrene in Surface Water	60
Table 54: Benchmark Values for Benzo[b]fluoranthene in Surface Water	62
Table 55: Benchmark Values for Benzo[e]pyrene in Surface Water	63
Table 56: Benchmark Values for Benzo[g,h,i]perylene in Surface Water	64
Table 57: Benchmark Values for Benzo[j]fluoranthene in Surface Water.....	65
Table 58: Benchmark Values for Benzo[k]fluoranthene in Surface Water.....	66
Table 59: Benchmark Values for Benzofluorene, 2,3– in Surface Water	67
Table 60: Benchmark Values for Benzoic Acid in Surface Water.....	68
Table 61: Benchmark Values for Benzothiophene in Surface Water.....	69
Table 62: Benchmark Values for Benzyl Alcohol in Surface Water.....	70
Table 63: Benchmark Values for Beryllium and compounds in Surface Water	72
Table 64: Benchmark Values for Biphenyl, 1,1’– in Surface Water.....	74
Table 65: Benchmark Values for Bis(2–chloroethyl)ether in Surface Water	74
Table 66: Benchmark Values for Bis(2–ethylhexyl)phthalate in Surface Water	75
Table 67: Benchmark Values for Bisphenol A in Surface Water.....	77
Table 68: Benchmark Values for Boron And Borates Only in Surface Water	78
Table 69: Benchmark Values for Bromacil in Surface Water.....	80
Table 70: Benchmark Values for Bromate in Surface Water	80
Table 71: Benchmark Values for Bromine in Surface Water.....	80
Table 72: Benchmark Values for Bromodichloromethane in Surface Water	81
Table 73: Benchmark Values for Bromodiphenyl Ether, p– in Surface Water	81
Table 74: Benchmark Values for Bromoform in Surface Water	82
Table 75: Benchmark Values for Bromomethane in Surface Water	82
Table 76: Benchmark Values for Bromoxynil in Surface Water.....	83
Table 77: Benchmark Values for Butanol, N– in Surface Water.....	83
Table 78: Benchmark Values for Butyl Benzyl Phthalate in Surface Water.....	84
Table 79: Benchmark Values for Butyl Formate, tert– in Surface Water	85
Table 80: Benchmark Values for Butylacetate in Surface Water.....	86
Table 81: Benchmark Values for Butylate in Surface Water	86
Table 82: Benchmark Values for Butylbenzene, n– in Surface Water.....	86
Table 83: Benchmark Values for Butylbenzene, sec– in Surface Water.....	87
Table 84: Benchmark Values for Butylphenol, t– in Surface Water.....	87
Table 85: Benchmark Values for Butyraldehyde in Surface Water	87
Table 86: Benchmark Values for Cadmium (Diet) in Surface Water.....	88
Table 87: Benchmark Values for Calcium in Surface Water	90
Table 88: Benchmark Values for Captafol in Surface Water	90

Table 89: Benchmark Values for Captan in Surface Water	90
Table 90: Benchmark Values for Carbaryl in Surface Water.....	91
Table 91: Benchmark Values for Carbazole in Surface Water.....	91
Table 92: Benchmark Values for Carbofuran in Surface Water.....	91
Table 93: Benchmark Values for Carbon Disulfide in Surface Water	92
Table 94: Benchmark Values for Carbon Tetrachloride in Surface Water	93
Table 95: Benchmark Values for Carboxin in Surface Water.....	94
Table 96: Benchmark Values for Chlorate (ClO ₃) in Surface Water.....	94
Table 97: Benchmark Values for Chlordane (alpha) in Surface Water	95
Table 98: Benchmark Values for Chlordane (gamma) in Surface Water.....	97
Table 99: Benchmark Values for Chlordane in Surface Water	99
Table 100: Benchmark Values for Chlordecone (Kepone) in Surface Water.....	100
Table 101: Benchmark Values for Chloride in Surface Water	101
Table 102: Benchmark Values for Chlorine in Surface Water	102
Table 103: Benchmark Values for Chlorite (Sodium Salt) in Surface Water.....	102
Table 104: Benchmark Values for Chloro-2-(phenylmethyl) phenol, 4- in Surface Water.....	102
Table 105: Benchmark Values for Chloro-2,6-dinitrophenol, 4- in Surface Water	103
Table 106: Benchmark Values for Chloroaniline, 2- in Surface Water.....	103
Table 107: Benchmark Values for Chloroaniline, p- in Surface Water.....	103
Table 108: Benchmark Values for Chlorobenzene in Surface Water.....	104
Table 109: Benchmark Values for Chlorobenzilate in Surface Water	106
Table 110: Benchmark Values for Chlorodibromoethane in Surface Water	106
Table 111: Benchmark Values for Chloroethylvinyl ether, 2- in Surface Water.....	106
Table 112: Benchmark Values for Chloroform in Surface Water.....	107
Table 113: Benchmark Values for Chloromethane in Surface Water	109
Table 114: Benchmark Values for Chloronaphthalene, Beta- in Surface Water	109
Table 115: Benchmark Values for Chloronitrobenzene, o- in Surface Water	110
Table 116: Benchmark Values for Chloronitrobenzene, p- in Surface Water	110
Table 117: Benchmark Values for Chlorophenol, 2- in Surface Water.....	111
Table 118: Benchmark Values for Chlorophenol, 3- in Surface Water.....	112
Table 119: Benchmark Values for Chlorophenol, 4- in Surface Water.....	113
Table 120: Benchmark Values for Chlorothalonil in Surface Water.....	113
Table 121: Benchmark Values for Chlorotoluene, o- in Surface Water.....	113
Table 122: Benchmark Values for Chlorpropham in Surface Water	114
Table 123: Benchmark Values for Chlorpyrifos Methyl in Surface Water	114
Table 124: Benchmark Values for Chlorpyrifos in Surface Water.....	114
Table 125: Benchmark Values for Chlorsulfuron in Surface Water	115
Table 126: Benchmark Values for Chlorthal-dimethyl in Surface Water	115
Table 127: Benchmark Values for Chromium(III), (Insoluble Salts) in Surface Water	115
Table 128: Benchmark Values for Chromium(VI) in Surface Water.....	116
Table 129: Benchmark Values for Chromium, Total in Surface Water.....	118
Table 130: Benchmark Values for Chrysene in Surface Water.....	120
Table 131: Benchmark Values for Cobalt in Surface Water	122
Table 132: Benchmark Values for Copper in Surface Water	124
Table 133: Benchmark Values for Coronene in Surface Water	126
Table 134: Benchmark Values for Coumaphos in Surface Water.....	126
Table 135: Benchmark Values for Cresol, m- in Surface Water	126
Table 136: Benchmark Values for Cresol, o- in Surface Water	127
Table 137: Benchmark Values for Cresol, p- in Surface Water	128
Table 138: Benchmark Values for Cresol, p-chloro-m- in Surface Water	128
Table 139: Benchmark Values for Cresols in Surface Water.....	129

Table 140: Benchmark Values for Cumene in Surface Water	129
Table 141: Benchmark Values for Cyanazine in Surface Water	129
Table 142: Benchmark Values for Cyanide (CN-) in Surface Water	130
Table 143: Benchmark Values for Cyanide (total complex) in Surface Water	131
Table 144: Benchmark Values for Cyanogen Chloride in Surface Water.....	133
Table 145: Benchmark Values for Cycloate in Surface Water.....	133
Table 146: Benchmark Values for Cyclohexanone in Surface Water	133
Table 147: Benchmark Values for Cyclohexylamine in Surface Water	134
Table 148: Benchmark Values for Cypermethrin in Surface Water.....	134
Table 149: Benchmark Values for Dalapon in Surface Water	134
Table 150: Benchmark Values for Decane in Surface Water.....	135
Table 151: Benchmark Values for Deltamethrin in Surface Water.....	135
Table 152: Benchmark Values for Demeton in Surface Water	135
Table 153: Benchmark Values for Di(2-ethylhexyl)adipate in Surface Water.....	136
Table 154: Benchmark Values for Diazinon in Surface Water	136
Table 155: Benchmark Values for Dibenz[a,c]anthracene in Surface Water	136
Table 156: Benchmark Values for Dibenz[a,h]anthracene in Surface Water.....	137
Table 157: Benchmark Values for Dibenz[a,h]anthracenes, C1- in Surface Water	138
Table 158: Benchmark Values for Dibenz[a,h]anthracenes, C2- in Surface Water	138
Table 159: Benchmark Values for Dibenz[a,h]anthracenes, C3- in Surface Water	139
Table 160: Benchmark Values for Dibenz[a,j]anthracene in Surface Water.....	139
Table 161: Benchmark Values for Dibenzofuran in Surface Water	139
Table 162: Benchmark Values for Dibenzothiophene in Surface Water.....	140
Table 163: Benchmark Values for Dibenzothiophenes, C1- in Surface Water	140
Table 164: Benchmark Values for Dibenzothiophenes, C2- in Surface Water	141
Table 165: Benchmark Values for Dibenzothiophenes, C3- in Surface Water	141
Table 166: Benchmark Values for Dibenzothiophenes, C4- in Surface Water	142
Table 167: Benchmark Values for Dibromo-3-chloropropane, 1,2- in Surface Water.....	142
Table 168: Benchmark Values for Dibromochloromethane in Surface Water	142
Table 169: Benchmark Values for Dibromoethane, 1,2- in Surface Water.....	143
Table 170: Benchmark Values for Dibutyl Phthalate in Surface Water.....	144
Table 171: Benchmark Values for Dicamba in Surface Water	146
Table 172: Benchmark Values for Dichloroacetic Acid in Surface Water.....	146
Table 173: Benchmark Values for Dichlorobenzene, 1,2- in Surface Water	147
Table 174: Benchmark Values for Dichlorobenzene, 1,3- in Surface Water	148
Table 175: Benchmark Values for Dichlorobenzene, 1,4- in Surface Water	149
Table 176: Benchmark Values for Dichlorobenzene in Surface Water.....	151
Table 177: Benchmark Values for Dichlorobenzidine, 3,3'- in Surface Water.....	151
Table 178: Benchmark Values for Dichlorodiphenyldichloroethane, p,p'- (DDD) in Surface Water.....	151
Table 179: Benchmark Values for Dichlorodiphenyldichloroethylene, p,p'- (DDE) in Surface Water.....	152
Table 180: Benchmark Values for Dichlorodiphenyltrichloroethane, p,p'- (DDT) in Surface Water.....	154
Table 181: Benchmark Values for Dichloroethane, 1,1- in Surface Water	156
Table 182: Benchmark Values for Dichloroethane, 1,2- in Surface Water	158
Table 183: Benchmark Values for Dichloroethylene, 1,1- in Surface Water	160
Table 184: Benchmark Values for Dichloroethylene, 1,2- (Mixed Isomers) in Surface Water	162
Table 185: Benchmark Values for Dichloroethylene, cis-1,2- in Surface Water	163
Table 186: Benchmark Values for Dichloroethylene, trans-1,2- in Surface Water	164
Table 187: Benchmark Values for Dichlorophenol, 2,3- in Surface Water.....	164
Table 188: Benchmark Values for Dichlorophenol, 2,4- in Surface Water.....	165
Table 189: Benchmark Values for Dichlorophenol, 2,5- in Surface Water.....	165

Table 190: Benchmark Values for Dichlorophenol, 2,6– in Surface Water.....	166
Table 191: Benchmark Values for Dichlorophenol, 3,4– in Surface Water.....	166
Table 192: Benchmark Values for Dichlorophenoxy Acetic Acid, 2,4– in Surface Water.....	166
Table 193: Benchmark Values for Dichloropropane, 1,2– in Surface Water.....	167
Table 194: Benchmark Values for Dichloropropane, 2,2– in Surface Water.....	167
Table 195: Benchmark Values for Dichloropropene, 1,1– in Surface Water.....	168
Table 196: Benchmark Values for Dichloropropene, 1,3– in Surface Water.....	169
Table 197: Benchmark Values for Dichloropropene, cis–1,3– in Surface Water.....	170
Table 198: Benchmark Values for Dichloropropene, trans–1,3– in Surface Water.....	170
Table 199: Benchmark Values for Dichlorvos in Surface Water.....	170
Table 200: Benchmark Values for Diclofop–methyl in Surface Water.....	171
Table 201: Benchmark Values for Dicofol in Surface Water.....	171
Table 202: Benchmark Values for Dicrotophos in Surface Water.....	171
Table 203: Benchmark Values for Dieldrin in Surface Water.....	172
Table 204: Benchmark Values for Diethyl Phthalate in Surface Water.....	174
Table 205: Benchmark Values for Diethylaminoethanol in Surface Water.....	175
Table 206: Benchmark Values for Diethylene glycol dimethyl ether in Surface Water.....	175
Table 207: Benchmark Values for Diethylene Glycol Monoethyl Ether in Surface Water.....	175
Table 208: Benchmark Values for Diisopropanolamine in Surface Water.....	176
Table 209: Benchmark Values for Diisopropyl Methylphosphonate in Surface Water.....	176
Table 210: Benchmark Values for Dimethoate in Surface Water.....	176
Table 211: Benchmark Values for Dimethrin in Surface Water.....	177
Table 212: Benchmark Values for Dimethylamino azobenzene [p–] in Surface Water.....	177
Table 213: Benchmark Values for Dimethylaniline, 2,4– in Surface Water.....	177
Table 214: Benchmark Values for Dimethylaniline, N,N– in Surface Water.....	177
Table 215: Benchmark Values for Dimethylanthracene, 9,10– in Surface Water.....	178
Table 216: Benchmark Values for Dimethylbenz[a]anthracene, 7,12– in Surface Water.....	178
Table 217: Benchmark Values for Dimethylbenz[a]anthracene, 9,10– in Surface Water.....	178
Table 218: Benchmark Values for Dimethylformamide in Surface Water.....	179
Table 219: Benchmark Values for Dimethylnaphthalene, 1,3– in Surface Water.....	179
Table 220: Benchmark Values for Dimethylnaphthalene, 1,4– in Surface Water.....	179
Table 221: Benchmark Values for Dimethylnaphthalene, 1,5– in Surface Water.....	179
Table 222: Benchmark Values for Dimethylnaphthalene, 2,3– in Surface Water.....	180
Table 223: Benchmark Values for Dimethylnaphthalene, 2,6– in Surface Water.....	180
Table 224: Benchmark Values for Dimethylphenanthrene, 3,6– in Surface Water.....	180
Table 225: Benchmark Values for Dimethylphenol, 2,4– in Surface Water.....	181
Table 226: Benchmark Values for Dimethylphenol, 2,6– in Surface Water.....	181
Table 227: Benchmark Values for Dimethylphthalate in Surface Water.....	182
Table 228: Benchmark Values for Dinitrobenzene, 1,2– in Surface Water.....	183
Table 229: Benchmark Values for Dinitrobenzene, 1,3– in Surface Water.....	184
Table 230: Benchmark Values for Dinitrobenzene, 1,4– in Surface Water.....	185
Table 231: Benchmark Values for Dinitro-o-cresol, 4,6– in Surface Water.....	186
Table 232: Benchmark Values for Dinitrophenol, 2,4– in Surface Water.....	186
Table 233: Benchmark Values for Dinitrotoluene, 2,4– in Surface Water.....	187
Table 234: Benchmark Values for Dinitrotoluene, 2,6– in Surface Water.....	189
Table 235: Benchmark Values for Dinitrotoluene, 2–Amino–4,6– in Surface Water.....	191
Table 236: Benchmark Values for Dinitrotoluene, 4–Amino–2,6– in Surface Water.....	192
Table 237: Benchmark Values for Dinoseb in Surface Water.....	193
Table 238: Benchmark Values for Dioxane, 1,4– in Surface Water.....	193
Table 239: Benchmark Values for Diphenamid in Surface Water.....	194
Table 240: Benchmark Values for Diphenylamine in Surface Water.....	194

Table 241: Benchmark Values for Diphenylhydrazine, 1,2– in Surface Water	194
Table 242: Benchmark Values for Diquat dibromide in Surface Water.....	195
Table 243: Benchmark Values for Disulfoton in Surface Water.....	195
Table 244: Benchmark Values for Diuron in Surface Water	195
Table 245: Benchmark Values for Endosulfan I in Surface Water	196
Table 246: Benchmark Values for Endosulfan II in Surface Water	196
Table 247: Benchmark Values for Endosulfan Sulfate in Surface Water	196
Table 248: Benchmark Values for Endosulfan in Surface Water.....	197
Table 249: Benchmark Values for Endothall in Surface Water	199
Table 250: Benchmark Values for Endrin aldehyde in Surface Water.....	199
Table 251: Benchmark Values for Endrin in Surface Water.....	200
Table 252: Benchmark Values for Ethalfluralin in Surface Water.....	201
Table 253: Benchmark Values for Ethanol in Surface Water	202
Table 254: Benchmark Values for Ethanolamine in Surface Water.....	202
Table 255: Benchmark Values for Ethion in Surface Water	202
Table 256: Benchmark Values for Ethoprop in Surface Water.....	203
Table 257: Benchmark Values for Ethoxyethanol Acetate, 2– in Surface Water	203
Table 258: Benchmark Values for Ethyl Acetate in Surface Water	203
Table 259: Benchmark Values for Ethyl Acrylate in Surface Water.....	203
Table 260: Benchmark Values for Ethyl Chloride in Surface Water	204
Table 261: Benchmark Values for Ethyl dipropylthiocarbamate, S– (EPTC) in Surface Water.....	204
Table 262: Benchmark Values for Ethyl Ether in Surface Water.....	204
Table 263: Benchmark Values for Ethyl mercaptan in Surface Water.....	204
Table 264: Benchmark Values for Ethylanthracene, 2– in Surface Water.....	205
Table 265: Benchmark Values for Ethylbenzene in Surface Water	205
Table 266: Benchmark Values for Ethylene Diamine in Surface Water	206
Table 267: Benchmark Values for Ethylene glycol dimethyl ether in Surface Water	206
Table 268: Benchmark Values for Ethylene Glycol in Surface Water.....	207
Table 269: Benchmark Values for Ethylene Oxide in Surface Water	207
Table 270: Benchmark Values for Ethylene Thiourea in Surface Water	208
Table 271: Benchmark Values for Ethylenediaminetetraacetic acid (EDTA) in Surface Water	208
Table 272: Benchmark Values for Ethylfluorene, 9- in Surface Water.....	208
Table 273: Benchmark Values for Ethylhexyl glycidyl ether, 2– in Surface Water.....	209
Table 274: Benchmark Values for Ethylnaphthalene, 1– in Surface Water.....	209
Table 275: Benchmark Values for Ethylnaphthalene, 2- in Surface Water.....	209
Table 276: Benchmark Values for Ethyl–p–nitrophenyl Phosphonate in Surface Water	209
Table 277: Benchmark Values for Fenamiphos in Surface Water	210
Table 278: Benchmark Values for Fensulfothion in Surface Water.....	210
Table 279: Benchmark Values for Fenvalerate in Surface Water.....	210
Table 280: Benchmark Values for Fluometuron in Surface Water	210
Table 281: Benchmark Values for Fluoranthene in Surface Water.....	211
Table 282: Benchmark Values for Fluoranthene/pyrenes, C1- in Surface Water	213
Table 283: Benchmark Values for Fluoranthene/pyrenes, C2– in Surface Water.....	213
Table 284: Benchmark Values for Fluoranthene/pyrenes, C3– in Surface Water.....	214
Table 285: Benchmark Values for Fluoranthene/pyrenes, C4– in Surface Water.....	214
Table 286: Benchmark Values for Fluorene in Surface Water.....	215
Table 287: Benchmark Values for Fluorenes, C1– in Surface Water	216
Table 288: Benchmark Values for Fluorenes, C2– in Surface Water	217
Table 289: Benchmark Values for Fluorenes, C3– in Surface Water	217
Table 290: Benchmark Values for Fluoride in Surface Water	218
Table 291: Benchmark Values for Fluridone in Surface Water	220

Table 292: Benchmark Values for Fonofos in Surface Water	220
Table 293: Benchmark Values for Formaldehyde in Surface Water	220
Table 294: Benchmark Values for Formic Acid in Surface Water.....	221
Table 295: Benchmark Values for Furfural in Surface Water.....	221
Table 296: Benchmark Values for Furfuryl Alcohol in Surface Water.....	221
Table 297: Benchmark Values for Glyphosate in Surface Water.....	222
Table 298: Benchmark Values for Heptachlor Epoxide in Surface Water	222
Table 299: Benchmark Values for Heptachlor in Surface Water	223
Table 300: Benchmark Values for Heptane, N– in Surface Water	225
Table 301: Benchmark Values for Hexachlorobenzene in Surface Water	225
Table 302: Benchmark Values for Hexachlorobutadiene in Surface Water	226
Table 303: Benchmark Values for Hexachlorocyclohexane, (total) in Surface Water	226
Table 304: Benchmark Values for Hexachlorocyclohexane, Alpha– in Surface Water	227
Table 305: Benchmark Values for Hexachlorocyclohexane, Beta– in Surface Water	228
Table 306: Benchmark Values for Hexachlorocyclohexane, Delta– in Surface Water.....	230
Table 307: Benchmark Values for Hexachlorocyclohexane, Gamma– (Lindane) in Surface Water	231
Table 308: Benchmark Values for Hexachlorocyclohexane, Technical in Surface Water.....	233
Table 309: Benchmark Values for Hexachlorocyclopentadiene in Surface Water.....	233
Table 310: Benchmark Values for Hexachloroethane in Surface Water	234
Table 311: Benchmark Values for Hexachlorophene in Surface Water.....	234
Table 312: Benchmark Values for Hexahydro–1,3,5–trinitro–1,3,5–triazine (RDX) in Surface Water.....	235
Table 313: Benchmark Values for Hexane, n– in Surface Water	236
Table 314: Benchmark Values for Hexanone, 2– in Surface Water.....	237
Table 315: Benchmark Values for Hydrazine in Surface Water	238
Table 316: Benchmark Values for Hydrogen Cyanide in Surface Water.....	238
Table 317: Benchmark Values for Hydrogen Sulfide in Surface Water	238
Table 318: Benchmark Values for Hydroquinone in Surface Water.....	239
Table 319: Benchmark Values for Hydroxy–4–methyl–2–pentanone , 4– in Surface Water.....	239
Table 320: Benchmark Values for Indane in Surface Water.....	239
Table 321: Benchmark Values for Indene in Surface Water	240
Table 322: Benchmark Values for Indeno[1,2,3–cd]pyrene in Surface Water	240
Table 323: Benchmark Values for Iodine in Surface Water.....	241
Table 324: Benchmark Values for Iprodione in Surface Water	241
Table 325: Benchmark Values for Iron in Surface Water	241
Table 326: Benchmark Values for Isobutyl Alcohol in Surface Water	242
Table 327: Benchmark Values for Isodrin in Surface Water	242
Table 328: Benchmark Values for Isophorone in Surface Water.....	243
Table 329: Benchmark Values for Isopropanol in Surface Water.....	244
Table 330: Benchmark Values for Isopropyl acetate in Surface Water.....	244
Table 331: Benchmark Values for Isopropyltoluene, p– in Surface Water.....	245
Table 332: Benchmark Values for Lead and Compounds in Surface Water.....	246
Table 333: Benchmark Values for Linuron in Surface Water.....	248
Table 334: Benchmark Values for Lithium in Surface Water.....	248
Table 335: Benchmark Values for Magnesium in Surface Water.....	248
Table 336: Benchmark Values for Malathion in Surface Water	249
Table 337: Benchmark Values for Maleic Anhydride in Surface Water.....	249
Table 338: Benchmark Values for Mancozeb in Surface Water	249
Table 339: Benchmark Values for Maneb in Surface Water.....	250
Table 340: Benchmark Values for Manganese (Diet) in Surface Water	251
Table 341: Benchmark Values for Mercuric Chloride in Surface Water	253

Table 342: Benchmark Values for Mercury (elemental) in Surface Water	254
Table 343: Benchmark Values for Metalaxyl in Surface Water	256
Table 344: Benchmark Values for Methamidophos in Surface Water	256
Table 345: Benchmark Values for Methanol in Surface Water.....	256
Table 346: Benchmark Values for Methidathion in Surface Water	257
Table 347: Benchmark Values for Methomyl in Surface Water	257
Table 348: Benchmark Values for Methoxychlor in Surface Water	258
Table 349: Benchmark Values for Methoxyethanol, 2– in Surface Water.....	259
Table 350: Benchmark Values for Methyl Acrylate in Surface Water.....	260
Table 351: Benchmark Values for Methyl Ethyl Ketone (2–Butanone) in Surface Water	261
Table 352: Benchmark Values for Methyl Isobutyl Ketone (4–methyl–2–pentanone) in Surface Water.....	263
Table 353: Benchmark Values for Methyl Mercury in Surface Water.....	264
Table 354: Benchmark Values for Methyl Methacrylate in Surface Water	266
Table 355: Benchmark Values for Methyl Parathion in Surface Water	266
Table 356: Benchmark Values for Methyl tert–Butyl Ether (MTBE) in Surface Water.....	267
Table 357: Benchmark Values for Methyl–2–Pentanol, 4– in Surface Water.....	267
Table 358: Benchmark Values for Methylantracene, 1- in Surface Water.....	268
Table 359: Benchmark Values for Methylantracene, 2– in Surface Water	268
Table 360: Benchmark Values for Methylantracene, 9– in Surface Water	268
Table 361: Benchmark Values for Methylbenzo[a]pyrene, 7- in Surface Water.....	268
Table 362: Benchmark Values for Methylcholanthrene, 3– in Surface Water.....	269
Table 363: Benchmark Values for Methylene bithiocyanate in Surface Water	269
Table 364: Benchmark Values for Methylene Chloride in Surface Water	270
Table 365: Benchmark Values for Methylfluorene, 1– in Surface Water.....	272
Table 366: Benchmark Values for Methylnaphthalene, 1– in Surface Water	272
Table 367: Benchmark Values for Methylnaphthalene, 2– in Surface Water	273
Table 368: Benchmark Values for Methylnaphthalene in Surface Water	274
Table 369: Benchmark Values for Methylphenanthrene, 1– in Surface Water.....	275
Table 370: Benchmark Values for Methylphenanthrene, 2– in Surface Water.....	275
Table 371: Benchmark Values for Methylpyrrolidone, N– in Surface Water.....	275
Table 372: Benchmark Values for Metolachlor in Surface Water	276
Table 373: Benchmark Values for Metribuzin in Surface Water	276
Table 374: Benchmark Values for Mevinphos in Surface Water	277
Table 375: Benchmark Values for Mirex in Surface Water	277
Table 376: Benchmark Values for Molinate in Surface Water	277
Table 377: Benchmark Values for Molybdenum in Surface Water	278
Table 378: Benchmark Values for Morpholine in Surface Water.....	279
Table 379: Benchmark Values for Naled in Surface Water	279
Table 380: Benchmark Values for Naphthacene in Surface Water	279
Table 381: Benchmark Values for Naphthalene in Surface Water.....	280
Table 382: Benchmark Values for Naphthalenes, C1- in Surface Water	282
Table 383: Benchmark Values for Naphthalenes, C2– in Surface Water	282
Table 384: Benchmark Values for Naphthalenes, C3- in Surface Water	283
Table 385: Benchmark Values for Naphthalenes, C4– in Surface Water	283
Table 386: Benchmark Values for Naphthothiophene in Surface Water	284
Table 387: Benchmark Values for Napropamide in Surface Water.....	284
Table 388: Benchmark Values for Nickel Soluble Salts in Surface Water.....	285
Table 389: Benchmark Values for Nitrate (measured as nitrogen) in Surface Water	287
Table 390: Benchmark Values for Nitrite (measured as nitrogen) in Surface Water	287
Table 391: Benchmark Values for Nitroaniline, 2– in Surface Water	287

Table 392: Benchmark Values for Nitroaniline, 4– in Surface Water	288
Table 393: Benchmark Values for Nitrobenzene in Surface Water	288
Table 394: Benchmark Values for Nitroglycerin in Surface Water	290
Table 395: Benchmark Values for Nitrophenol, 2– in Surface Water	291
Table 396: Benchmark Values for Nitrophenol, 4– in Surface Water	291
Table 397: Benchmark Values for Nitrosodiethylamine, N– in Surface Water	292
Table 398: Benchmark Values for Nitrosodiphenylamine, N– in Surface Water	293
Table 399: Benchmark Values for Nitrotoluene, m– in Surface Water	294
Table 400: Benchmark Values for Nitrotoluene, o– in Surface Water	296
Table 401: Benchmark Values for Nitrotoluene, p– in Surface Water	298
Table 402: Benchmark Values for Nonylphenol (branched) in Surface Water	299
Table 403: Benchmark Values for Nonylphenol in Surface Water	299
Table 404: Benchmark Values for Octahydro–1,3,5,7–tetranitro–1,3,5,7–tetrazocine (HMX) in Surface Water	300
Table 405: Benchmark Values for Octanone, 2– in Surface Water	301
Table 406: Benchmark Values for Octanone, 3– in Surface Water	302
Table 407: Benchmark Values for Octyl Phthalate, di–N– in Surface Water	302
Table 408: Benchmark Values for Oxadiazon in Surface Water	303
Table 409: Benchmark Values for Oxamyl in Surface Water	304
Table 410: Benchmark Values for Paraquat Dichloride in Surface Water	304
Table 411: Benchmark Values for Parathion in Surface Water	304
Table 412: Benchmark Values for Pebulate in Surface Water	305
Table 413: Benchmark Values for PeCDD, 2,3,7,8– in Surface Water	305
Table 414: Benchmark Values for Pendimethalin in Surface Water	305
Table 415: Benchmark Values for Pentachlorobenzene in Surface Water	306
Table 416: Benchmark Values for Pentachloroethane in Surface Water	306
Table 417: Benchmark Values for Pentachloronitrobenzene in Surface Water	307
Table 418: Benchmark Values for Pentachlorophenol in Surface Water	309
Table 419: Benchmark Values for Pentaerythritol tetranitrate (PETN) in Surface Water	311
Table 420: Benchmark Values for Pentane, n– in Surface Water	312
Table 421: Benchmark Values for Pentyl Alcohol, N– in Surface Water	312
Table 422: Benchmark Values for Peracetic acid in Surface Water	313
Table 423: Benchmark Values for Perchlorate and Perchlorate Salts in Surface Water	313
Table 424: Benchmark Values for Permethrin in Surface Water	315
Table 425: Benchmark Values for Perylene in Surface Water	315
Table 426: Benchmark Values for Phenanthrene in Surface Water	316
Table 427: Benchmark Values for Phenanthrene/anthracenes, C1– in Surface Water	317
Table 428: Benchmark Values for Phenanthrene/anthracenes, C2– in Surface Water	318
Table 429: Benchmark Values for Phenanthrene/anthracenes, C3– in Surface Water	318
Table 430: Benchmark Values for Phenanthrene/anthracenes, C4– in Surface Water	319
Table 431: Benchmark Values for Phenmedipham in Surface Water	319
Table 432: Benchmark Values for Phenol, 2–(1–methylethoxy)–, methylcarbamate in Surface Water	319
Table 433: Benchmark Values for Phenol in Surface Water	320
Table 434: Benchmark Values for Phenols (total) in Surface Water	322
Table 435: Benchmark Values for Phenoxy herbicides in Surface Water	322
Table 436: Benchmark Values for Phenyl phenol, p– in Surface Water	322
Table 437: Benchmark Values for Phenyl-3-pyrazolidinone, 1- in Surface Water	323
Table 438: Benchmark Values for Phenylphenol, 2– in Surface Water	323
Table 439: Benchmark Values for Phorate in Surface Water	323
Table 440: Benchmark Values for Phosmet in Surface Water	324

Table 441: Benchmark Values for Phosphorus (total) in Surface Water.....	324
Table 442: Benchmark Values for Picloram in Surface Water	324
Table 443: Benchmark Values for Picramic Acid (2–Amino–4,6–dinitrophenol) in Surface Water.....	325
Table 444: Benchmark Values for Picric Acid (2,4,6–Trinitrophenol) in Surface Water	325
Table 445: Benchmark Values for Piperazine, 1–(2–aminoethyl) in Surface Water	325
Table 446: Benchmark Values for Polychlorinated Biphenyls (high risk) in Surface Water	326
Table 447: Benchmark Values for Polychlorinated Biphenyls (PCBs) in Surface Water	327
Table 448: Benchmark Values for Polycyclic aromatic hydrocarbons (PAH), Total in Surface Water	327
Table 449: Benchmark Values for Potassium Cyanide in Surface Water	327
Table 450: Benchmark Values for Potassium in Surface Water.....	328
Table 451: Benchmark Values for Prometon in Surface Water	328
Table 452: Benchmark Values for Prometryn in Surface Water.....	328
Table 453: Benchmark Values for Propachlor in Surface Water	329
Table 454: Benchmark Values for Propanil in Surface Water	329
Table 455: Benchmark Values for Propanoic acid, 2–(2,4–dichlorophenoxy)– in Surface Water.....	329
Table 456: Benchmark Values for Propargite in Surface Water	329
Table 457: Benchmark Values for Propazine in Surface Water.....	330
Table 458: Benchmark Values for Propham in Surface Water	330
Table 459: Benchmark Values for Propiconazole in Surface Water	330
Table 460: Benchmark Values for Propyl benzene in Surface Water	331
Table 461: Benchmark Values for Propylene Glycol in Surface Water.....	331
Table 462: Benchmark Values for Propylene in Surface Water.....	332
Table 463: Benchmark Values for Pyrene in Surface Water.....	333
Table 464: Benchmark Values for Pyridine in Surface Water	335
Table 465: Benchmark Values for Quinoline in Surface Water.....	335
Table 466: Benchmark Values for Resmethrin in Surface Water	335
Table 467: Benchmark Values for Ronnel in Surface Water	336
Table 468: Benchmark Values for Rotenone in Surface Water.....	336
Table 469: Benchmark Values for Selenious Acid in Surface Water	336
Table 470: Benchmark Values for Selenium in Surface Water.....	337
Table 471: Benchmark Values for Silver in Surface Water	339
Table 472: Benchmark Values for Simazine in Surface Water.....	341
Table 473: Benchmark Values for Simazine in Surface Water.....	341
Table 474: Benchmark Values for Sodium Acifluorfen in Surface Water.....	341
Table 475: Benchmark Values for Sodium Azide in Surface Water.....	342
Table 476: Benchmark Values for Sodium Cyanide in Surface Water	342
Table 477: Benchmark Values for Sodium molybdate in Surface Water.....	342
Table 478: Benchmark Values for Sodium in Surface Water.....	343
Table 479: Benchmark Values for Strontium, Stable in Surface Water	344
Table 480: Benchmark Values for Strychnine in Surface Water	345
Table 481: Benchmark Values for Styrene in Surface Water.....	346
Table 482: Benchmark Values for Sulfate in Surface Water.....	346
Table 483: Benchmark Values for Sulfolane in Surface Water.....	347
Table 484: Benchmark Values for Sulfurous acid, 2–chloroethyl 2–[4–(1,1–dimethylethyl)phenoxy]–1–methylethyl ester in Surface Water.....	347
Table 485: Benchmark Values for TCDD, 2,3,7,8– in Surface Water	348
Table 486: Benchmark Values for TCDF, 2,3,7,8– in Surface Water.....	349
Table 487: Benchmark Values for Tebuthiuron in Surface Water.....	349
Table 488: Benchmark Values for Temephos in Surface Water.....	349
Table 489: Benchmark Values for Terbacil in Surface Water.....	350

Table 490: Benchmark Values for Terbufos in Surface Water	350
Table 491: Benchmark Values for Terbutryn in Surface Water	350
Table 492: Benchmark Values for Tetrachlorobenzene, 1,2,3,4- in Surface Water.....	351
Table 493: Benchmark Values for Tetrachlorobenzene, 1,2,4,5- in Surface Water.....	351
Table 494: Benchmark Values for Tetrachloroethane, 1,1,1,2- in Surface Water	352
Table 495: Benchmark Values for Tetrachloroethane, 1,1,2,2- in Surface Water	353
Table 496: Benchmark Values for Tetrachloroethylene in Surface Water	355
Table 497: Benchmark Values for Tetrachlorophenol, 2,3,4,6- in Surface Water.....	357
Table 498: Benchmark Values for Tetraethyl Dithiopyrophosphate in Surface Water.....	357
Table 499: Benchmark Values for Tetrahydrofuran in Surface Water	358
Table 500: Benchmark Values for Tetryl (Trinitrophenylmethyl nitramine) in Surface Water	359
Table 501: Benchmark Values for Thallium (Soluble Salts) in Surface Water.....	360
Table 502: Benchmark Values for Thallium Sulfate in Surface Water	362
Table 503: Benchmark Values for Thiocyanic acid, (2-benzothiazolylthio)methyl ester (TCMTB) in Surface Water	362
Table 504: Benchmark Values for Thiram in Surface Water	362
Table 505: Benchmark Values for Tin in Surface Water	363
Table 506: Benchmark Values for Titanium in Surface Water	364
Table 507: Benchmark Values for Toluene in Surface Water	365
Table 508: Benchmark Values for Toluene-2,4-diisocyanate in Surface Water.....	366
Table 509: Benchmark Values for Toluidine, o- (Methylaniline, 2-) in Surface Water	367
Table 510: Benchmark Values for Total dissolved solids (TDS) in Surface Water.....	367
Table 511: Benchmark Values for Toxaphene in Surface Water.....	368
Table 512: Benchmark Values for Triadimefon in Surface Water	370
Table 513: Benchmark Values for Triallate in Surface Water.....	370
Table 514: Benchmark Values for Tribromochloromethane in Surface Water	370
Table 515: Benchmark Values for Tribromophenol, 2,4,6- in Surface Water.....	371
Table 516: Benchmark Values for Tribufos in Surface Water.....	371
Table 517: Benchmark Values for Tributyltin Oxide in Surface Water	371
Table 518: Benchmark Values for Trichlorfon in Surface Water	372
Table 519: Benchmark Values for Trichloroacetic Acid in Surface Water	372
Table 520: Benchmark Values for Trichlorobenzene, 1,2,3- in Surface Water	372
Table 521: Benchmark Values for Trichlorobenzene, 1,2,4- in Surface Water	373
Table 522: Benchmark Values for Trichlorobenzene, 1,3,5- in Surface Water.....	375
Table 523: Benchmark Values for Trichlorobenzene in Surface Water	375
Table 524: Benchmark Values for Trichloroethane, 1,1,1- in Surface Water	376
Table 525: Benchmark Values for Trichloroethane, 1,1,2- in Surface Water	378
Table 526: Benchmark Values for Trichloroethylene in Surface Water.....	379
Table 527: Benchmark Values for Trichlorophenol, 2,4,5- in Surface Water	381
Table 528: Benchmark Values for Trichlorophenol, 2,4,6- in Surface Water	381
Table 529: Benchmark Values for Trichlorophenols (total) in Surface Water	381
Table 530: Benchmark Values for Trichlorophenoxyacetic Acid, 2,4,5- in Surface Water.....	382
Table 531: Benchmark Values for Trichlorophenoxypropionic acid, -2,4,5 in Surface Water.....	382
Table 532: Benchmark Values for Tricyclohexyltin in Surface Water.....	382
Table 533: Benchmark Values for Triethyl phosphorothioate [O,O,O-] in Surface Water.....	383
Table 534: Benchmark Values for Trifluralin in Surface Water.....	383
Table 535: Benchmark Values for Trimethylbenzene, 1,2,4- in Surface Water	384
Table 536: Benchmark Values for Trimethylbenzene, 1,3,5- in Surface Water	384
Table 537: Benchmark Values for Trimethylnaphthalene, 1,4,5- in Surface Water	385
Table 538: Benchmark Values for Trimethylnaphthalene, 2,3,5- in Surface Water	385
Table 539: Benchmark Values for Tri-n-butyltin in Surface Water	385

Table 540: Benchmark Values for Trinitrobenzene, 1,3,5– in Surface Water.....	386
Table 541: Benchmark Values for Trinitrotoluene, 2,4,6– in Surface Water.....	387
Table 542: Benchmark Values for Triphenylene in Surface Water	389
Table 543: Benchmark Values for Triphenyltin in Surface Water	389
Table 544: Benchmark Values for Trithion in Surface Water	389
Table 545: Benchmark Values for Uranine in Surface Water.....	389
Table 546: Benchmark Values for Uranium (Soluble Salts) in Surface Water	390
Table 547: Benchmark Values for Vanadium and Compounds in Surface Water.....	392
Table 548: Benchmark Values for Vanadium Pentoxide in Surface Water	394
Table 549: Benchmark Values for Vernolate in Surface Water	394
Table 550: Benchmark Values for Vinyl Acetate in Surface Water.....	395
Table 551: Benchmark Values for Vinyl Chloride in Surface Water.....	396
Table 552: Benchmark Values for Xylene, m– in Surface Water.....	397
Table 553: Benchmark Values for Xylenes in Surface Water.....	398
Table 554: Benchmark Values for Zinc and Compounds in Surface Water.....	400
Table 555: Benchmark Values for Zinc Chloride in Surface Water.....	402
Table 556: Benchmark Values for Zineb in Surface Water	402
Table 557: Benchmark Values for Zirconium in Surface Water	403

1. INTRODUCTION

Volume V presents the chemical benchmarks for surface water: general. The benchmarks here are applicable to both fresh water and marine or where no differentiation was made by the source. These values are not repeated in the fresh water and marine categories. Likewise, values listed in the fresh water and marine categories are not repeated in the generic categories. Consult Volume I for information on the sources.

2. CHEMICAL BENCHMARKS FOR SURFACE WATER

Table 1: Benchmark Values for Acenaphthene in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
83-32-9	EPA ESBs	Final Chronic Value	Not specified	0.05585	
83-32-9	EPA Region 4	Freshwater and Saltwater Chronic for PAHs	Not specified	0.05600	
83-32-9	EPA Region 4	Freshwater and Saltwater Acute for PAHs	Not specified	0.11600	
83-32-9	EPA Region 5	EPA RCRA Surface Water	Not specified	0.03800	
83-32-9	Florida	Freshwater and Marine Water Contaminant Cleanup	Not specified	0.00300	
83-32-9	Florida	SWQS for Shellfish Propagation or Harvesting	Not specified	2.70000	
83-32-9	Illinois	Chronic – General Use	Not specified	0.06200	
83-32-9	Illinois	Acute – General Use	Not specified	0.12000	
83-32-9	LANL ECORISK	Surface Water No Effect ESL	Aquatic community organisms	0.00580	
83-32-9	LANL ECORISK	Surface Water Low Effect ESL	Aquatic community organisms	0.05800	
83-32-9	LANL ECORISK	Surface Water No Effect ESL	Montane shrew	310.00000	
83-32-9	LANL ECORISK	Surface Water No Effect ESL	Deer mouse	360.00000	
83-32-9	LANL ECORISK	Surface Water No Effect ESL	Occult little brown myotis bat	440.00000	
83-32-9	LANL ECORISK	Surface Water No Effect ESL	Mountain cottontail	720.00000	
83-32-9	LANL ECORISK	Surface Water No Effect ESL	Gray fox	810.00000	
83-32-9	LANL ECORISK	Surface Water Low Effect ESL	Montane shrew	3100.00000	
83-32-9	LANL ECORISK	Surface Water Low Effect ESL	Deer mouse	3600.00000	
83-32-9	LANL ECORISK	Surface Water Low Effect ESL	Occult little brown myotis bat	4400.00000	
83-32-9	LANL ECORISK	Surface Water Low Effect ESL	Mountain cottontail	7200.00000	
83-32-9	LANL ECORISK	Surface Water Low Effect ESL	Gray fox	8100.00000	
83-32-9	ORNL	SW Lowest Chronic Value – Fish	Not specified	0.07400	
83-32-9	ORNL	SW Lowest Chronic Value – All Organisms	Not specified	0.07400	
83-32-9	ORNL	EC20 Fish	Not specified	0.19700	23
83-32-9	ORNL	SW Lowest Chronic Value – Non-Daphnid Inverts	Not specified	0.22700	
83-32-9	ORNL	SW Lowest Chronic Value – Aquatic Plants	Not specified	0.52000	
83-32-9	ORNL	SW Lowest Chronic Value – Daphnids	Not specified	6.65000	24

Benchmark Values for Acenaphthene in Surface Water

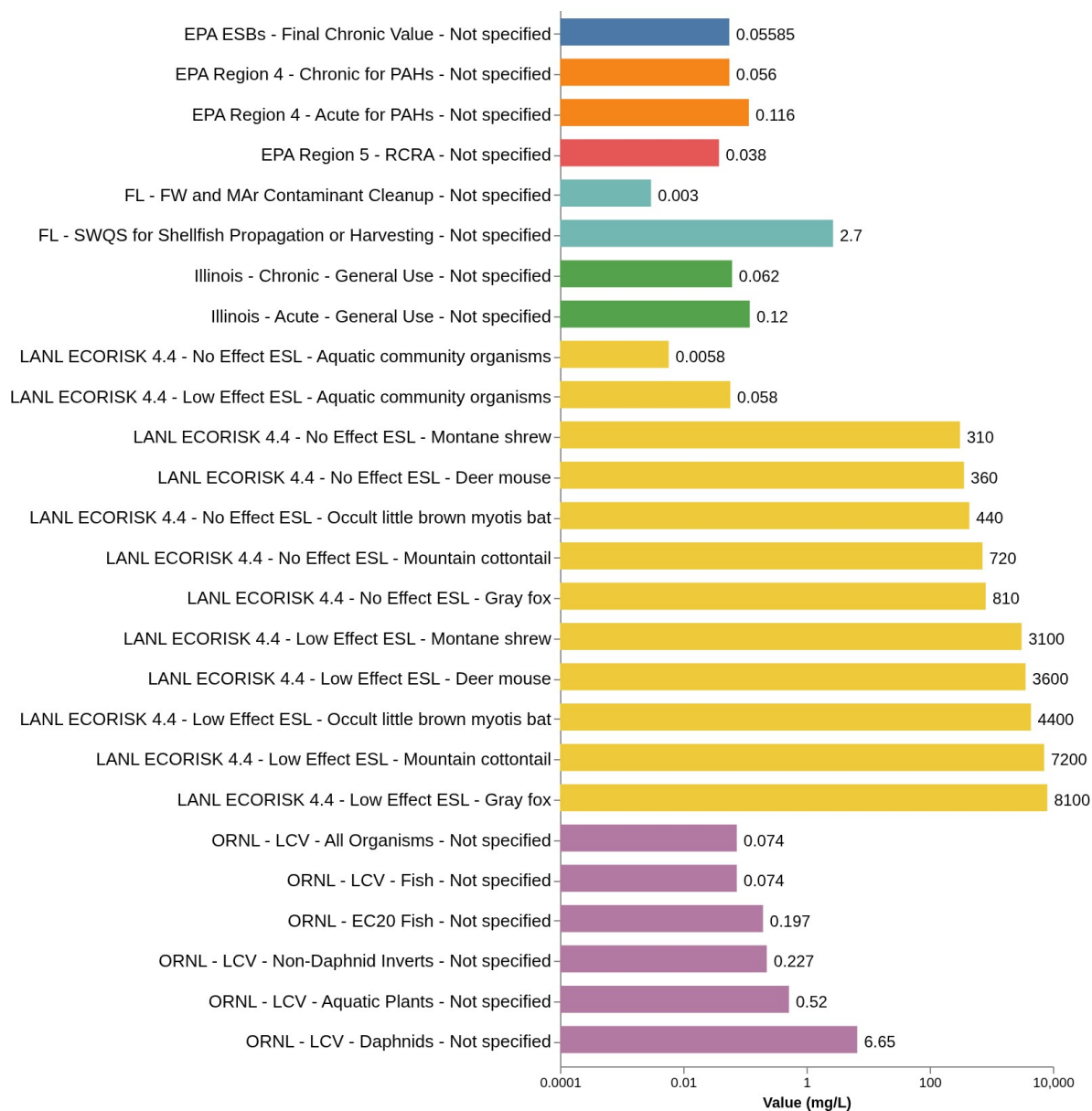


Table 2: Benchmark Values for Acenaphthylene in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
208-96-8	EPA ESBs	Final Chronic Value	Not specified	0.3069	
208-96-8	EPA Region 4	Freshwater and Saltwater Chronic for PAHs	Not specified	0.3070	
208-96-8	EPA Region 4	Freshwater and Saltwater Acute for PAHs	Not specified	0.6400	
208-96-8	EPA Region 5	EPA RCRA Surface Water	Not specified	4.8400	
208-96-8	Illinois	Chronic – General Use	Not specified	0.0150	195
208-96-8	Illinois	Acute – General Use	Not specified	0.1900	195
208-96-8	LANL ECORISK	Surface Water No Effect ESL	Aquatic community organisms	4.8000	
208-96-8	LANL ECORISK	Surface Water Low Effect ESL	Aquatic community organisms	48.0000	
208-96-8	LANL ECORISK	Surface Water No Effect ESL	Montane shrew	310.0000	
208-96-8	LANL ECORISK	Surface Water No Effect ESL	Deer mouse	360.0000	
208-96-8	LANL ECORISK	Surface Water No Effect ESL	Occult little brown myotis bat	440.0000	
208-96-8	LANL ECORISK	Surface Water No Effect ESL	Mountain cottontail	720.0000	
208-96-8	LANL ECORISK	Surface Water No Effect ESL	Gray fox	810.0000	
208-96-8	LANL ECORISK	Surface Water Low Effect ESL	Montane shrew	3100.0000	
208-96-8	LANL ECORISK	Surface Water Low Effect ESL	Deer mouse	3600.0000	
208-96-8	LANL ECORISK	Surface Water Low Effect ESL	Occult little brown myotis bat	4400.0000	
208-96-8	LANL ECORISK	Surface Water Low Effect ESL	Mountain cottontail	7200.0000	
208-96-8	LANL ECORISK	Surface Water Low Effect ESL	Gray fox	8100.0000	

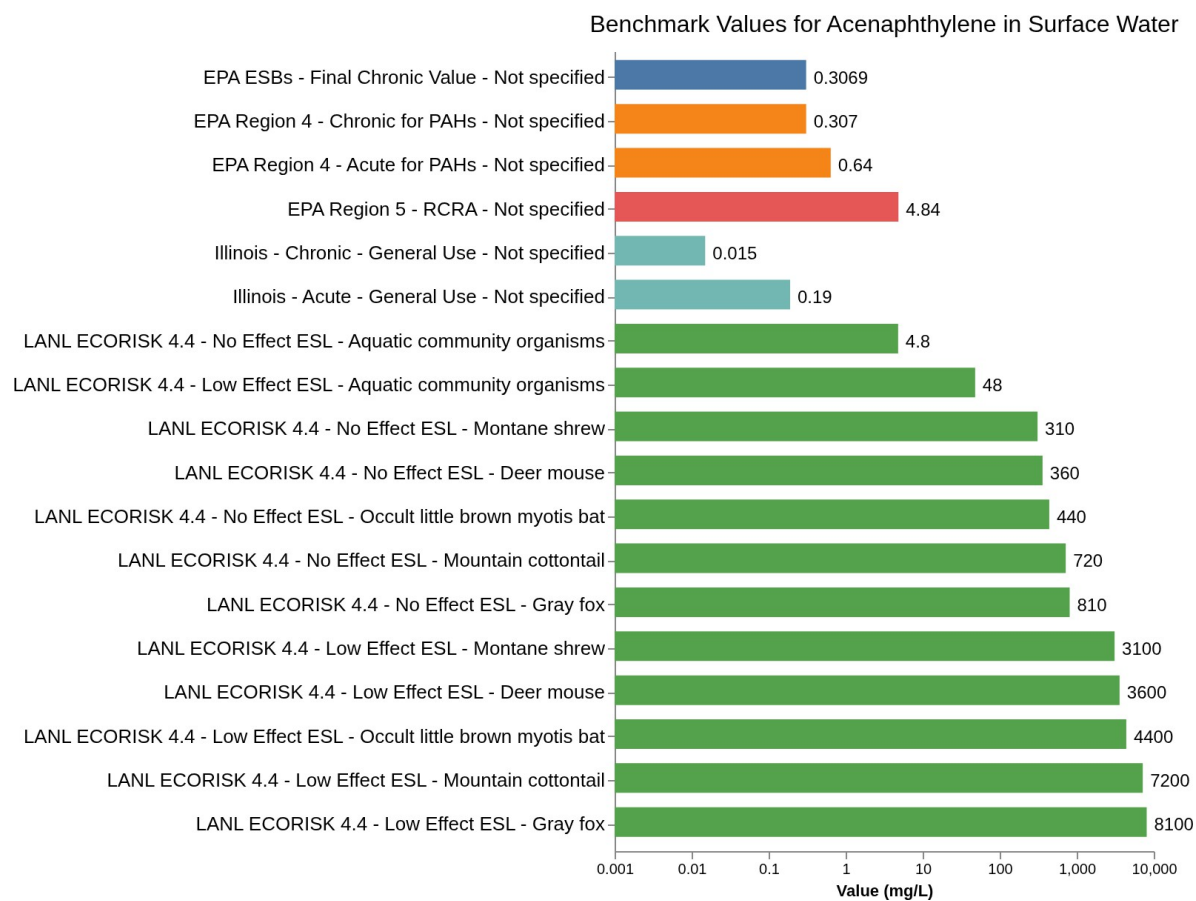


Table 3: Benchmark Values for Acephate in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
30560-19-1	Florida	Freshwater and Marine Water Contaminant Cleanup	Not specified	0.19

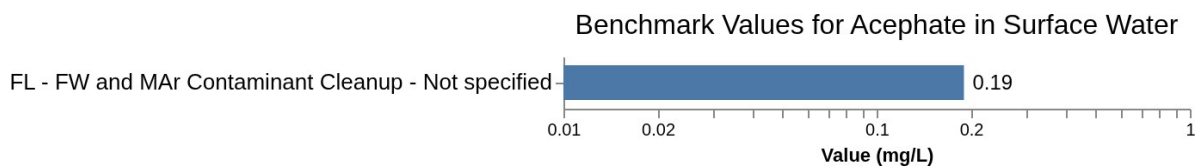


Table 4: Benchmark Values for Acetic acid, 2-(4-Chloro-2-methylphenoxy) (MCPA) in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
94-74-6	Canada	Water Irrigation	Not specified	0.000025
94-74-6	Canada	Water Livestock	Not specified	0.025000
94-74-6	Florida	Freshwater and Marine Water Contaminant Cleanup	Not specified	0.072000

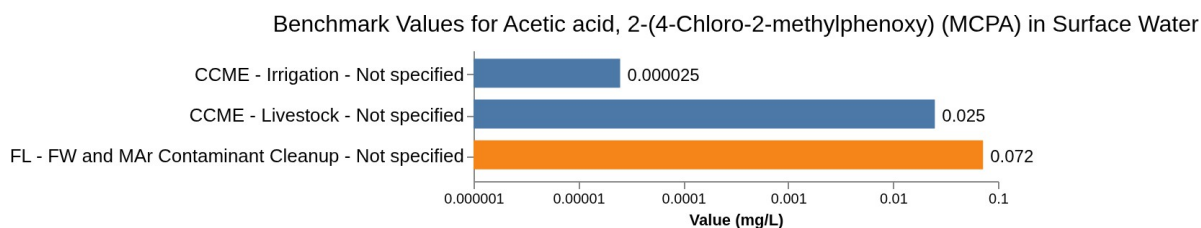


Table 5: Benchmark Values for Acetochlor in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
34256-82-1	Illinois	Chronic - General Use	Not specified	0.012
34256-82-1	Illinois	Acute - General Use	Not specified	0.150

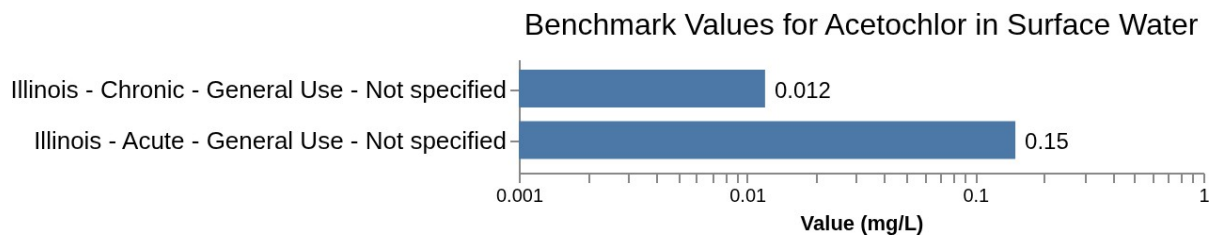


Table 6: Benchmark Values for Acetone in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
67-64-1	EPA Region 4	Freshwater and Saltwater Chronic Narcotic MOA	Not specified	117.629	
67-64-1	EPA Region 4	Freshwater and Saltwater Acute, Narcotic MOA	Not specified	355.606	
67-64-1	EPA Region 5	EPA RCRA Surface Water	Not specified	1.700	
67-64-1	Florida	Freshwater and Marine Water Contaminant Cleanup	Not specified	1.700	
67-64-1	Illinois	Chronic – General Use	Not specified	120.000	
67-64-1	Illinois	Acute – General Use	Not specified	1500.000	
67-64-1	LANL ECORISK	Surface Water No Effect ESL	Aquatic community organisms	1.500	
67-64-1	LANL ECORISK	Surface Water Low Effect ESL	Aquatic community organisms	15.000	
67-64-1	LANL ECORISK	Surface Water No Effect ESL	Montane shrew	44.000	
67-64-1	LANL ECORISK	Surface Water No Effect ESL	Deer mouse	52.000	
67-64-1	LANL ECORISK	Surface Water No Effect ESL	Occult little brown myotis bat	62.000	
67-64-1	LANL ECORISK	Surface Water No Effect ESL	Mountain cottontail	100.000	
67-64-1	LANL ECORISK	Surface Water No Effect ESL	Gray fox	110.000	
67-64-1	LANL ECORISK	Surface Water Low Effect ESL	Montane shrew	220.000	
67-64-1	LANL ECORISK	Surface Water Low Effect ESL	Deer mouse	260.000	
67-64-1	LANL ECORISK	Surface Water Low Effect ESL	Occult little brown myotis bat	310.000	
67-64-1	LANL ECORISK	Surface Water Low Effect ESL	Mountain cottontail	510.000	
67-64-1	LANL ECORISK	Surface Water Low Effect ESL	Gray fox	580.000	
67-64-1	LANL ECORISK	Surface Water No Effect ESL	Violet-green swallow	830.000	
67-64-1	LANL ECORISK	Surface Water No Effect ESL	American robin	1400.000	
67-64-1	LANL ECORISK	Surface Water No Effect ESL	American kestrel	1600.000	
67-64-1	LANL ECORISK	Surface Water Low Effect ESL	Violet-green swallow	8300.000	
67-64-1	LANL ECORISK	Surface Water Low Effect ESL	American robin	14000.000	
67-64-1	LANL ECORISK	Surface Water Low Effect ESL	American kestrel	16000.000	
67-64-1	ORNL	Tier II Secondary Chronic Value	Not specified	1.500	
67-64-1	ORNL	SW Lowest Chronic Value – Daphnids	Not specified	1.560	
67-64-1	ORNL	EC25 Bass Population	Not specified	23.700	
67-64-1	ORNL	Tier II Secondary Acute Value	Not specified	28.000	
67-64-1	ORNL	EC20 Fish	Not specified	162.000	29
67-64-1	ORNL	SW Lowest Chronic Value – All Organisms	Not specified	507.640	24
67-64-1	ORNL	SW Lowest Chronic Value – Fish	Not specified	508.000	24

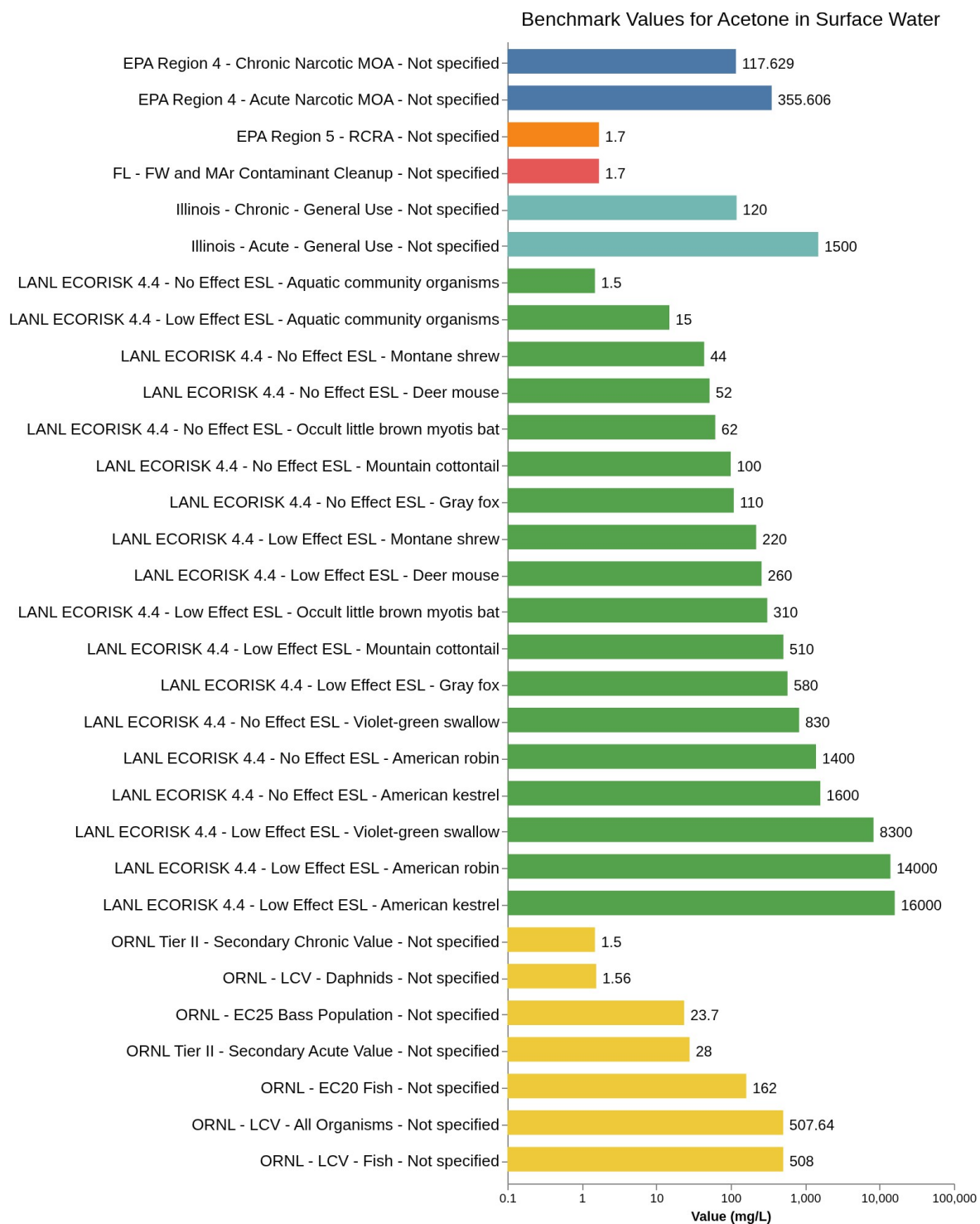


Table 7: Benchmark Values for Acetonitrile in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
75-05-8	EPA Region 4	Freshwater and Saltwater Chronic Narcotic MOA	Not specified	424.883
75-05-8	EPA Region 4	Freshwater and Saltwater Acute, Narcotic MOA	Not specified	813.650
75-05-8	EPA Region 5	EPA RCRA Surface Water	Not specified	12.000
75-05-8	Florida	Freshwater and Marine Water Contaminant Cleanup	Not specified	20.000
75-05-8	Illinois	Chronic – General Use	Not specified	30.000
75-05-8	Illinois	Acute – General Use	Not specified	380.000

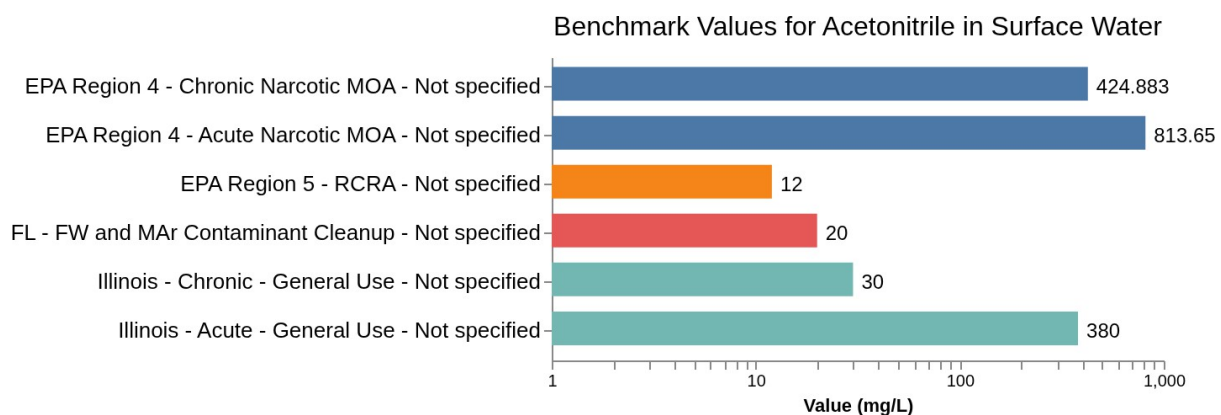


Table 8: Benchmark Values for Acetophenone in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
98-86-2	Florida	Freshwater and Marine Water Contaminant Cleanup	Not specified	7.8

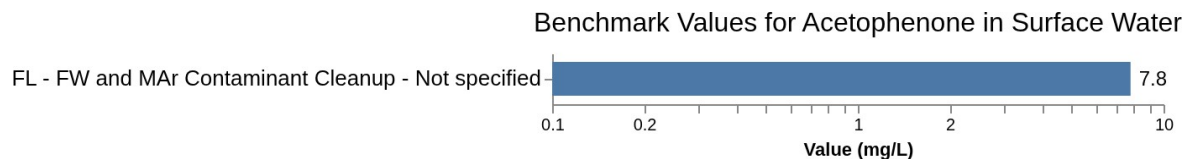


Table 9: Benchmark Values for Acetylaminofluorene, 2- in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
53-96-3	EPA Region 5	EPA RCRA Surface Water	Not specified	0.535

Benchmark Values for Acetylaminofluorene, 2- in Surface Water

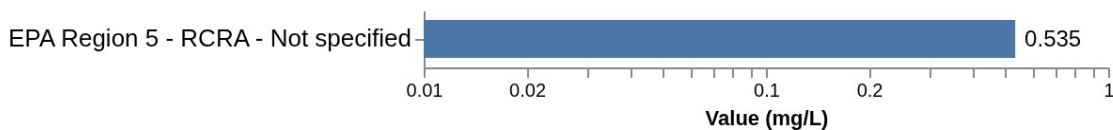


Table 10: Benchmark Values for Acrolein in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
107-02-8	EPA Region 5	EPA RCRA Surface Water	Not specified	0.00019
107-02-8	Florida	Freshwater and Marine Water Contaminant Cleanup	Not specified	0.00040
107-02-8	Illinois	Chronic – General Use	Not specified	0.00022
107-02-8	Illinois	Acute – General Use	Not specified	0.00270

Benchmark Values for Acrolein in Surface Water

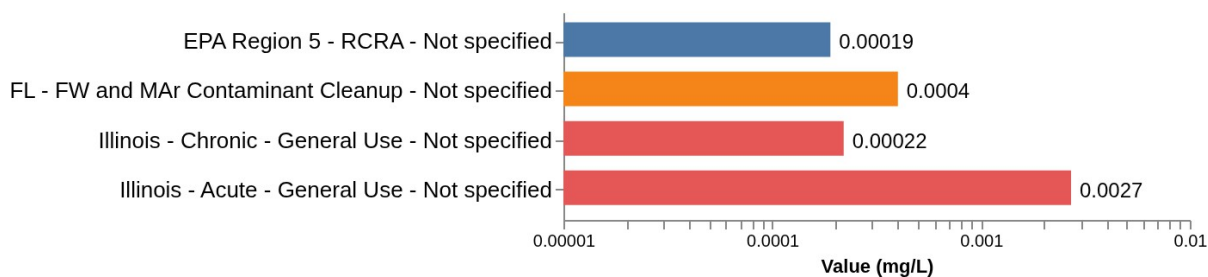


Table 11: Benchmark Values for Acrylamide in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
79-06-1	Illinois	Chronic – General Use	Not specified	2.4
79-06-1	Illinois	Acute – General Use	Not specified	30.0

Benchmark Values for Acrylamide in Surface Water

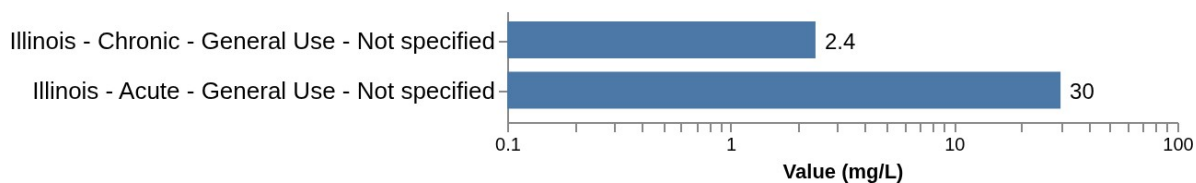


Table 12: Benchmark Values for Acrylonitrile in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
107-13-1	EPA Region 5	EPA RCRA Surface Water	Not specified	0.066
107-13-1	Illinois	Chronic – General Use	Not specified	0.073
107-13-1	Illinois	Acute – General Use	Not specified	0.910

Benchmark Values for Acrylonitrile in Surface Water

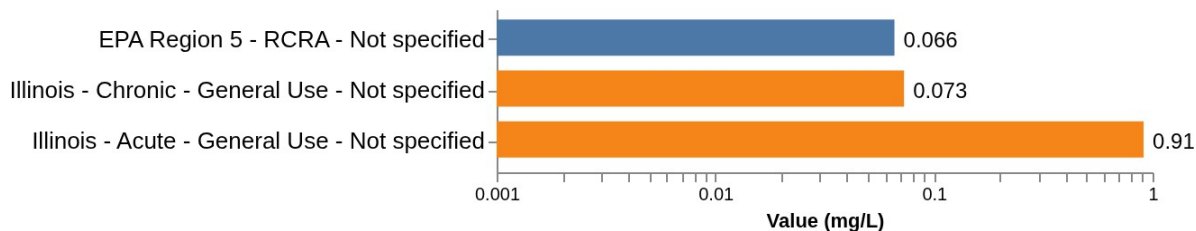


Table 13: Benchmark Values for ADBAC in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
68424-85-1	Illinois	Chronic – General Use	Not specified	0.001	195, 197
68424-85-1	Illinois	Acute – General Use	Not specified	0.010	195, 197

Benchmark Values for ADBAC in Surface Water

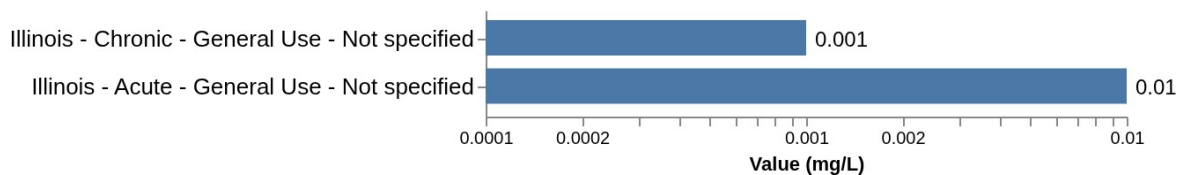


Table 14: Benchmark Values for Alachlor in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
15972-60-8	Illinois	Chronic – General Use	Not specified	0.1	195, 197
15972-60-8	Illinois	Acute – General Use	Not specified	1.1	

Benchmark Values for Alachlor in Surface Water

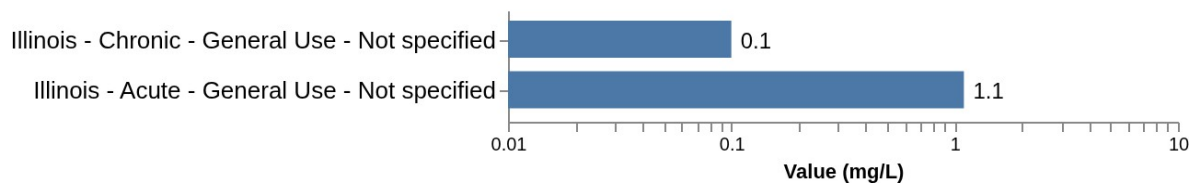


Table 15: Benchmark Values for Aldicarb Sulfone in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
1646-88-4	Florida	Freshwater and Marine Water Contaminant Cleanup	Not specified	0.046

Benchmark Values for Aldicarb Sulfone in Surface Water

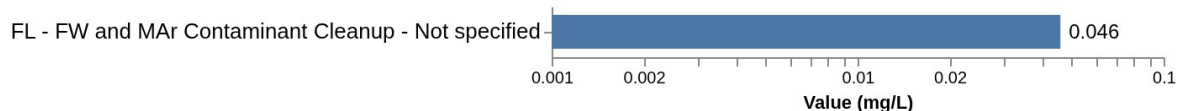


Table 16: Benchmark Values for Aldicarb sulfoxide in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
1646-87-3	Florida	Freshwater and Marine Water Contaminant Cleanup	Not specified	0.0042

Benchmark Values for Aldicarb sulfoxide in Surface Water

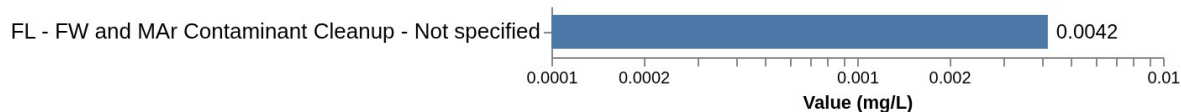


Table 17: Benchmark Values for Aldicarb in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
116-06-3	Canada	Water Livestock	Not specified	0.0110
116-06-3	Canada	Water Irrigation	Not specified	0.0549
116-06-3	Florida	Freshwater and Marine Water Contaminant Cleanup	Not specified	0.0009

Benchmark Values for Aldicarb in Surface Water

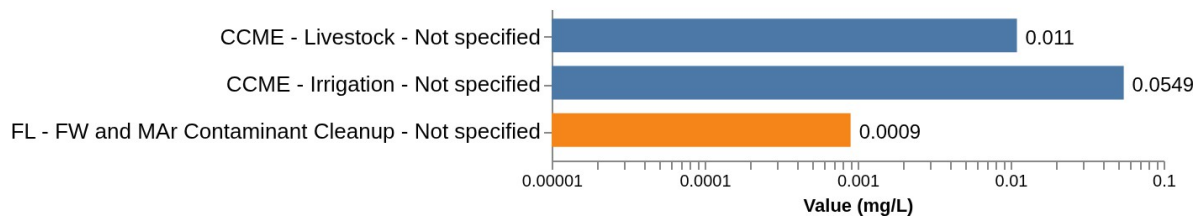


Table 18: Benchmark Values for Aldrin in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
309-00-2	EPA Region 5	EPA RCRA Surface Water	Not specified	1.700000e-05	
309-00-2	Florida	SWQS for Shellfish Propagation or Harvesting	Not specified	1.400000e-07	
309-00-2	Illinois	Acute – General Use	Not specified	3.000000e-03	196, 197

Benchmark Values for Aldrin in Surface Water

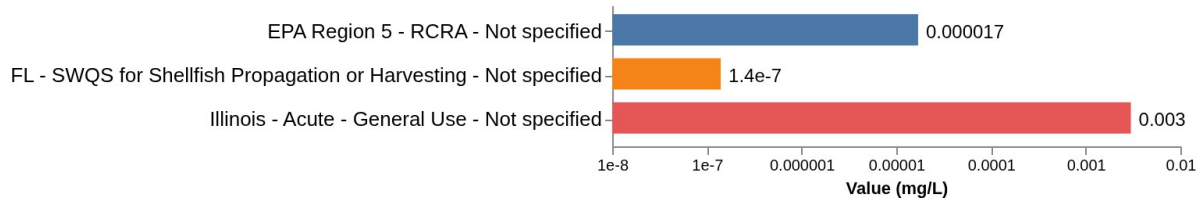


Table 19: Benchmark Values for Allyl Alcohol in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
107-18-6	Florida	Freshwater and Marine Water Contaminant Cleanup	Not specified	0.005

Benchmark Values for Allyl Alcohol in Surface Water

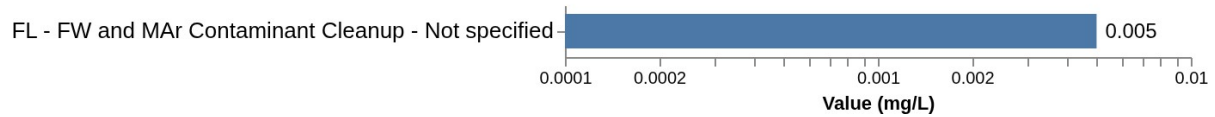


Table 20: Benchmark Values for Aluminum Phosphide in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
20859-73-8	Florida	Freshwater and Marine Water Contaminant Cleanup	Not specified	0.0065

Benchmark Values for Aluminum Phosphide in Surface Water

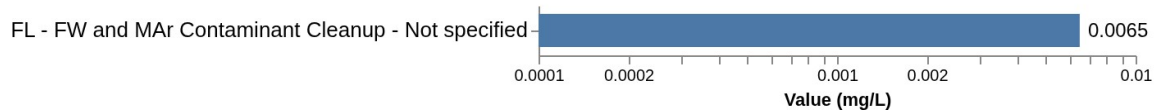


Table 21: Benchmark Values for Aluminum in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
7429-90-5	British Columbia	STA	Not specified	5.000	
7429-90-5	British Columbia	Livestock STA	Not specified	5.000	
7429-90-5	British Columbia	Irrigation STA	Not specified	5.000	
7429-90-5	Canada	Water Irrigation	Not specified	5.000	
7429-90-5	Canada	Water Livestock	Not specified	5.000	
7429-90-5	Florida	SWQS for Shellfish Propagation or Harvesting	Not specified	1.500	
7429-90-5	LANL ECORISK	Surface Water No Effect ESL	Aquatic community organisms	0.530	
7429-90-5	LANL ECORISK	Surface Water Low Effect ESL	Aquatic community organisms	1.300	
7429-90-5	LANL ECORISK	Surface Water No Effect ESL	Montane shrew	8.600	
7429-90-5	LANL ECORISK	Surface Water No Effect ESL	Deer mouse	10.000	
7429-90-5	LANL ECORISK	Surface Water No Effect ESL	Occult little brown myotis bat	12.000	
7429-90-5	LANL ECORISK	Surface Water No Effect ESL	Mountain cottontail	19.000	
7429-90-5	LANL ECORISK	Surface Water No Effect ESL	Gray fox	22.000	
7429-90-5	LANL ECORISK	Surface Water Low Effect ESL	Montane shrew	86.000	
7429-90-5	LANL ECORISK	Surface Water Low Effect ESL	Deer mouse	100.000	
7429-90-5	LANL ECORISK	Surface Water Low Effect ESL	Occult little brown myotis bat	120.000	
7429-90-5	LANL ECORISK	Surface Water Low Effect ESL	Mountain cottontail	190.000	
7429-90-5	LANL ECORISK	Surface Water Low Effect ESL	Gray fox	220.000	
7429-90-5	LANL ECORISK	Surface Water No Effect ESL	Violet-green swallow	450.000	
7429-90-5	LANL ECORISK	Surface Water No Effect ESL	American robin	780.000	
7429-90-5	LANL ECORISK	Surface Water No Effect ESL	American kestrel	910.000	
7429-90-5	LANL ECORISK	Surface Water Low Effect ESL	Violet-green swallow	4500.000	
7429-90-5	LANL ECORISK	Surface Water Low Effect ESL	American robin	7800.000	
7429-90-5	LANL ECORISK	Surface Water Low Effect ESL	American kestrel	9100.000	
7429-90-5	ORNL	EC20 Sensitive Species	Not specified	0.075	
7429-90-5	ORNL	SW Lowest Chronic Value – All Organisms	Not specified	0.460	
7429-90-5	ORNL	SW Lowest Chronic Value – Aquatic Plants	Not specified	0.460	
7429-90-5	ORNL	EC20 Daphnids	Not specified	0.540	
7429-90-5	ORNL	SW Lowest Chronic Value – Daphnids	Not specified	1.900	
7429-90-5	ORNL	SW Lowest Chronic Value – Fish	Not specified	3.290	
7429-90-5	ORNL	EC20 Fish	Not specified	4.700	

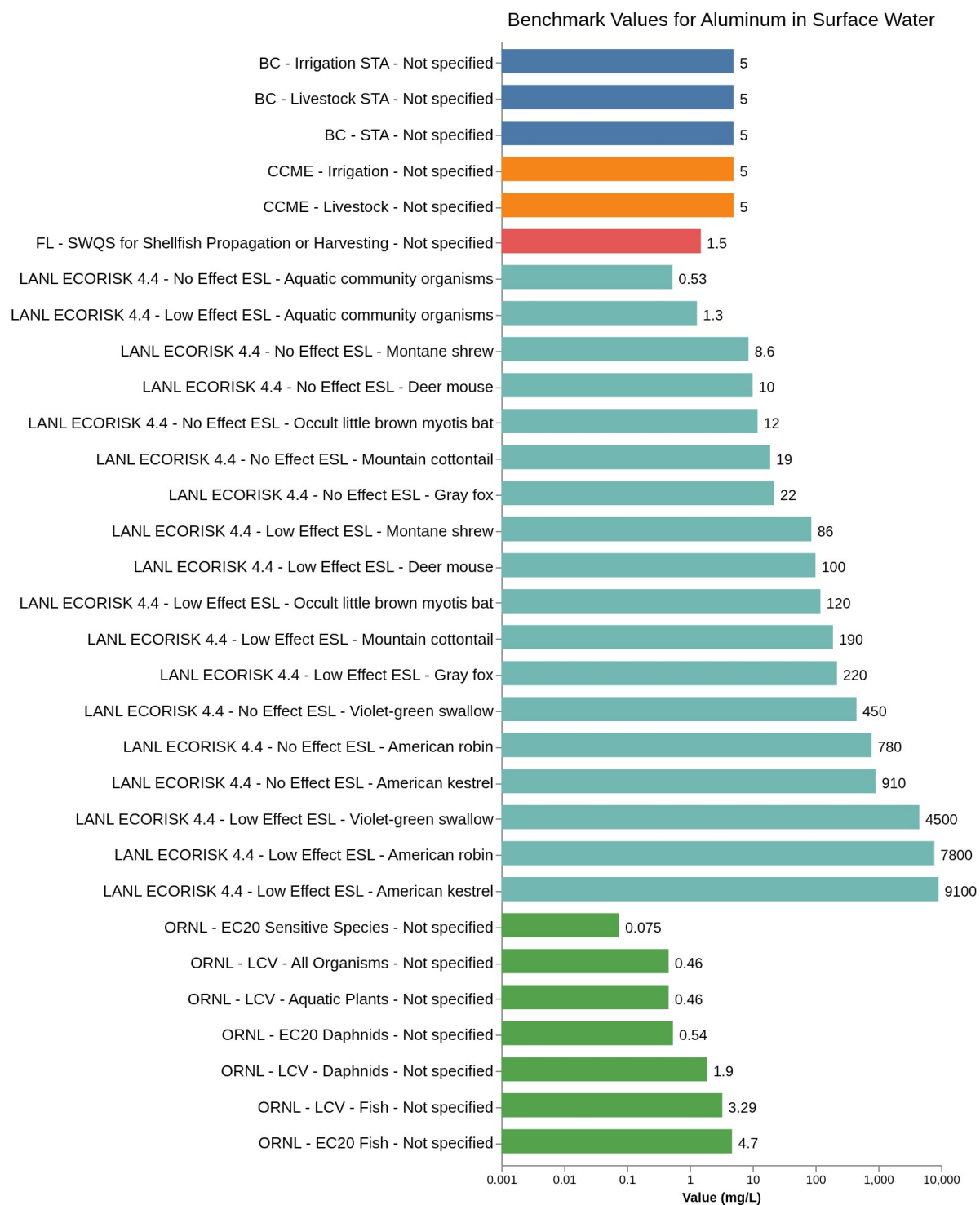


Table 22: Benchmark Values for Ametryn in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
834-12-8	Florida	Freshwater and Marine Water Contaminant Cleanup	Not specified	0.0062

Benchmark Values for Ametryn in Surface Water

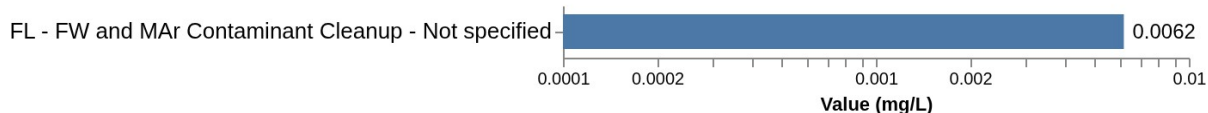


Table 23: Benchmark Values for Ammonia in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
7664-41-7	ORNL	SW Lowest Chronic Value – Fish	Not specified	0.0017	
7664-41-7	ORNL	SW Lowest Chronic Value – All Organisms	Not specified	0.0017	
7664-41-7	ORNL	SW Lowest Chronic Value – Daphnids	Not specified	0.6300	
7664-41-7	ORNL	SW Lowest Chronic Value – Aquatic Plants	Not specified	2.4000	
7664-41-7	Ohio	OMZA Exceptional Warm Water Habitat	Not specified	2.2000	182, 192
7664-41-7	Ohio	OMZA Cold Water Habitat	Not specified	2.2000	184, 192
7664-41-7	Ohio	OMZA Warm Water Habitat	Not specified	2.3000	181, 192
7664-41-7	Ohio	OMZA Modified Warm Water Habitat	Not specified	3.4000	183, 192
7664-41-7	Ohio	OMZM Limited Resource Water	Not specified	13.0000	175, 192
7664-41-7	Ohio	OMZM Warm and Extreme Warm Water Habitats	Not specified	13.0000	174, 192
7664-41-7	Ohio	OMZM Seasonal Salmonid Habitat	Not specified	13.0000	176, 192

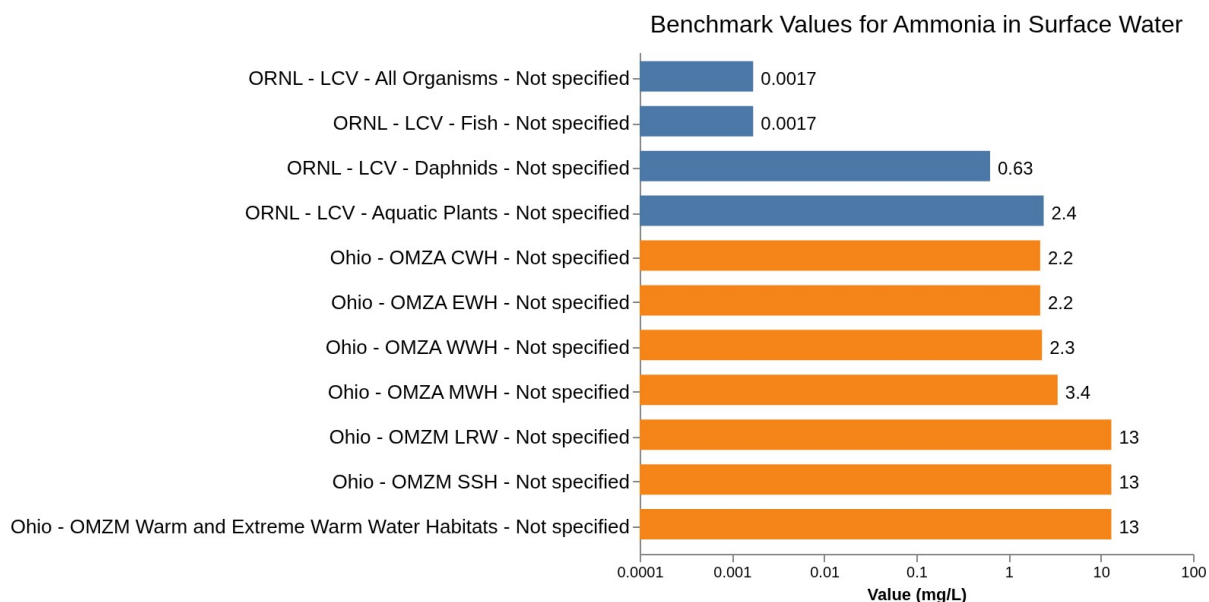


Table 24: Benchmark Values for Ammonium Sulfamate in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
7773-06-0	Florida	Freshwater and Marine Water Contaminant Cleanup	Not specified	10.0

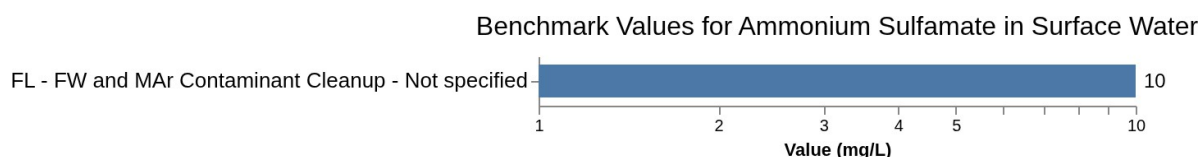


Table 25: Benchmark Values for Aniline in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
62-53-3	EPA Region 5	EPA RCRA Surface Water	Not specified	0.0041
62-53-3	Florida	Freshwater and Marine Water Contaminant Cleanup	Not specified	0.0040
62-53-3	Illinois	Chronic – General Use	Not specified	0.0150
62-53-3	Illinois	Acute – General Use	Not specified	0.1200

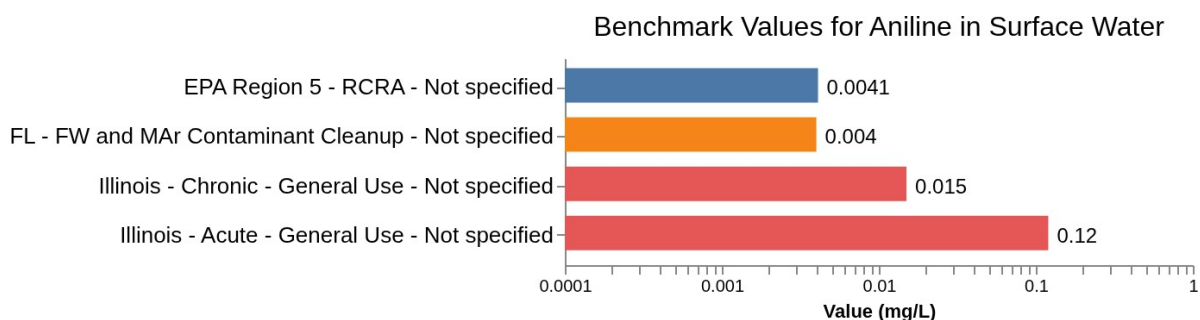


Table 26: Benchmark Values for Anthracene in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
120-12-7	EPA ESBs	Final Chronic Value	Not specified	0.020730	
120-12-7	EPA Region 4	Freshwater and Saltwater Chronic for PAHs	Not specified	0.021000	
120-12-7	EPA Region 4	Freshwater and Saltwater Acute for PAHs	Not specified	0.043000	
120-12-7	EPA Region 5	EPA RCRA Surface Water	Not specified	0.000035	
120-12-7	Florida	Freshwater and Marine Water Contaminant Cleanup	Not specified	0.000300	
120-12-7	Florida	SWQS for Shellfish Propagation or Harvesting	Not specified	110.000000	
120-12-7	Illinois	Chronic – General Use	Not specified	0.000530	
120-12-7	Illinois	Acute – General Use	Not specified	0.000660	
120-12-7	LANL ECORISK	Surface Water No Effect ESL	Aquatic community organisms	0.000730	
120-12-7	LANL ECORISK	Surface Water Low Effect ESL	Aquatic community organisms	0.007300	
120-12-7	LANL ECORISK	Surface Water No Effect ESL	Montane shrew	440.000000	
120-12-7	LANL ECORISK	Surface Water No Effect ESL	Deer mouse	520.000000	
120-12-7	LANL ECORISK	Surface Water No Effect ESL	Occult little brown myotis bat	620.000000	
120-12-7	LANL ECORISK	Surface Water No Effect ESL	Mountain cottontail	1000.000000	
120-12-7	LANL ECORISK	Surface Water No Effect ESL	Gray fox	1100.000000	
120-12-7	LANL ECORISK	Surface Water Low Effect ESL	Montane shrew	4400.000000	
120-12-7	LANL ECORISK	Surface Water Low Effect ESL	Deer mouse	5200.000000	
120-12-7	LANL ECORISK	Surface Water Low Effect ESL	Occult little brown myotis bat	6200.000000	
120-12-7	LANL ECORISK	Surface Water Low Effect ESL	Mountain cottontail	10000.000000	
120-12-7	LANL ECORISK	Surface Water Low Effect ESL	Gray fox	11000.000000	
120-12-7	ORNL	SW Lowest Chronic Value – All Organisms	Not specified	0.000090	24
120-12-7	ORNL	SW Lowest Chronic Value – Fish	Not specified	0.000090	24
120-12-7	ORNL	EC20 Fish	Not specified	0.000350	
120-12-7	ORNL	Tier II Secondary Chronic Value	Not specified	0.000730	
120-12-7	ORNL	SW Lowest Chronic Value – Daphnids	Not specified	0.002100	23
120-12-7	ORNL	EC20 Daphnids	Not specified	0.008200	22
120-12-7	ORNL	Tier II Secondary Acute Value	Not specified	0.013000	

Benchmark Values for Anthracene in Surface Water

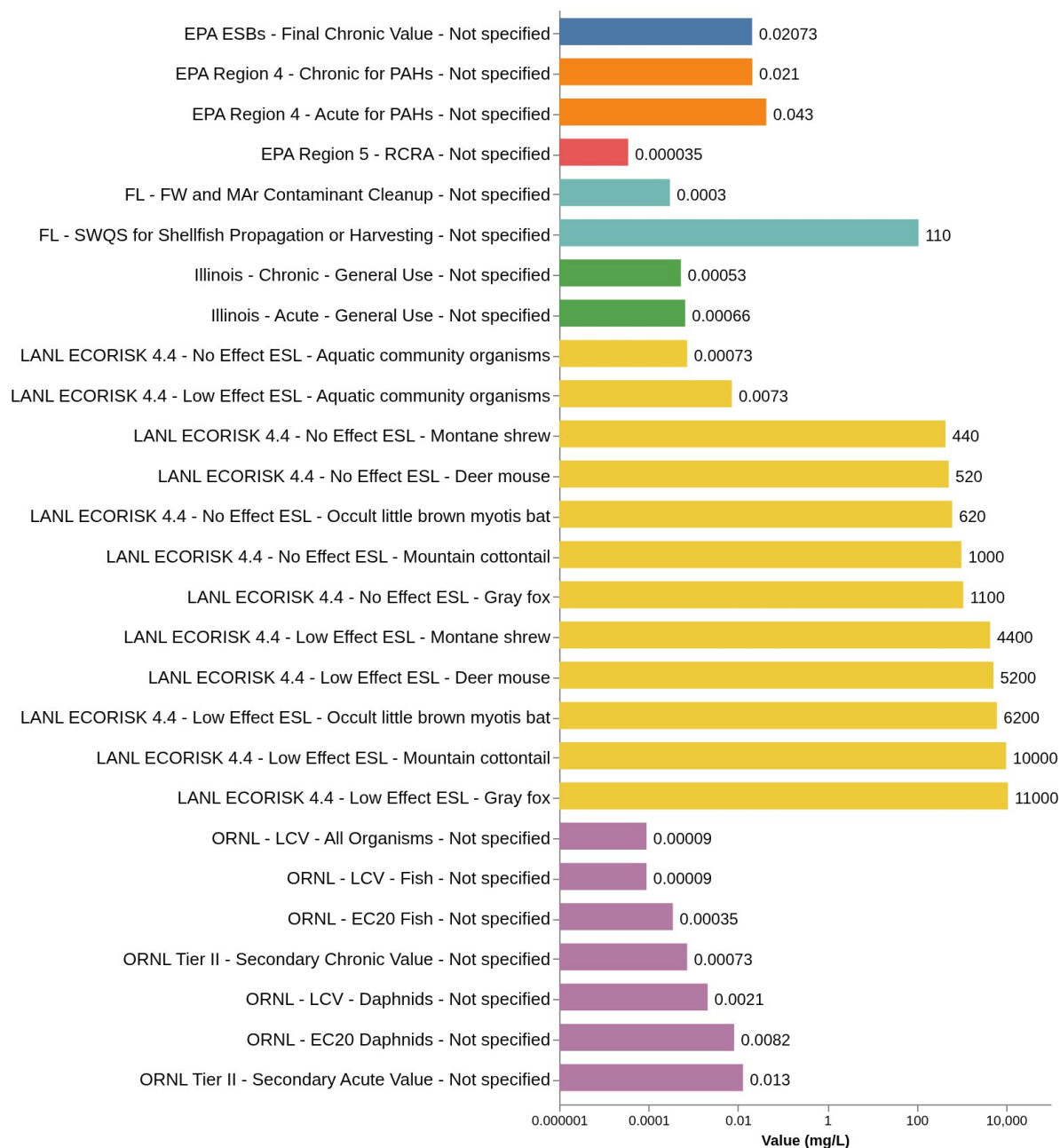


Table 27: Benchmark Values for Antimony (metallic) in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
7440-36-0	EPA Region 5	EPA RCRA Surface Water	Not specified	0.080
7440-36-0	Florida	SWQS for Shellfish Propagation or Harvesting	Not specified	4.300
7440-36-0	Illinois	Chronic – General Use	Not specified	0.320
7440-36-0	Illinois	Acute – General Use	Not specified	1.200
7440-36-0	LANL ECORISK	Surface Water No Effect ESL	Aquatic community organisms	0.030
7440-36-0	LANL ECORISK	Surface Water Low Effect ESL	Aquatic community organisms	0.088
7440-36-0	LANL ECORISK	Surface Water No Effect ESL	Montane shrew	0.690
7440-36-0	LANL ECORISK	Surface Water No Effect ESL	Deer mouse	0.810
7440-36-0	LANL ECORISK	Surface Water No Effect ESL	Occult little brown myotis bat	0.960
7440-36-0	LANL ECORISK	Surface Water No Effect ESL	Mountain cottontail	1.500
7440-36-0	LANL ECORISK	Surface Water No Effect ESL	Gray fox	1.700
7440-36-0	LANL ECORISK	Surface Water Low Effect ESL	Montane shrew	2.300
7440-36-0	LANL ECORISK	Surface Water Low Effect ESL	Deer mouse	2.700
7440-36-0	LANL ECORISK	Surface Water Low Effect ESL	Occult little brown myotis bat	3.300
7440-36-0	LANL ECORISK	Surface Water Low Effect ESL	Mountain cottontail	5.400
7440-36-0	LANL ECORISK	Surface Water Low Effect ESL	Gray fox	6.100
7440-36-0	ORNL	Tier II Secondary Chronic Value	Not specified	0.030
7440-36-0	ORNL	EC25 Bass Population	Not specified	0.079
7440-36-0	ORNL	Tier II Secondary Acute Value	Not specified	0.180
7440-36-0	ORNL	SW Lowest Chronic Value – All Organisms	Not specified	0.610
7440-36-0	ORNL	SW Lowest Chronic Value – Aquatic Plants	Not specified	0.610
7440-36-0	ORNL	SW Lowest Chronic Value – Fish	Not specified	1.600
7440-36-0	ORNL	EC20 Daphnids	Not specified	1.900
7440-36-0	ORNL	EC20 Fish	Not specified	2.310
7440-36-0	ORNL	SW Lowest Chronic Value – Daphnids	Not specified	5.400

Benchmark Values for Antimony (metallic) in Surface Water

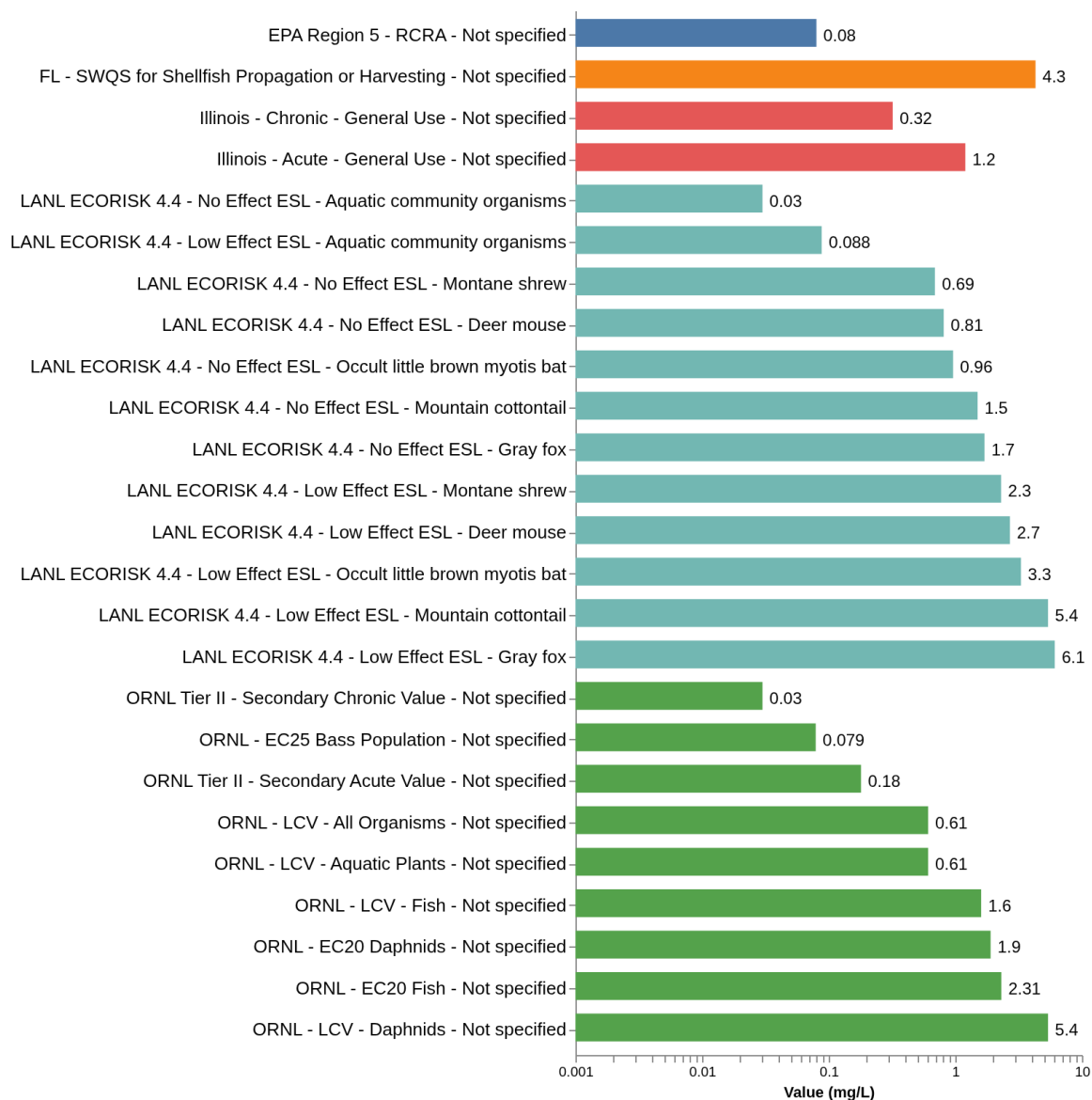
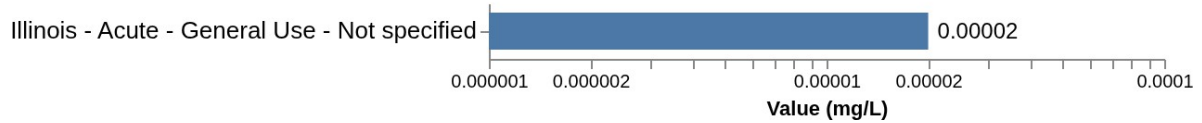


Table 28: Benchmark Values for Antimycin A in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
1397-94-0	Illinois	Acute – General Use	Not specified	0.00002	195, 197

Benchmark Values for Antimycin A in Surface Water**Table 29: Benchmark Values for Aroclor 1016 in Surface Water**

CAS	Source	Benchmark	Organism	Value (mg/L)
12674-11-2	LANL ECORISK	Surface Water No Effect ESL	Aquatic community organisms	0.000014
12674-11-2	LANL ECORISK	Surface Water Low Effect ESL	Aquatic community organisms	0.000140
12674-11-2	LANL ECORISK	Surface Water No Effect ESL	Montane shrew	0.150000
12674-11-2	LANL ECORISK	Surface Water No Effect ESL	Deer mouse	0.180000
12674-11-2	LANL ECORISK	Surface Water No Effect ESL	Occult little brown myotis bat	0.220000
12674-11-2	LANL ECORISK	Surface Water No Effect ESL	Mountain cottontail	0.360000
12674-11-2	LANL ECORISK	Surface Water No Effect ESL	Gray fox	0.400000
12674-11-2	LANL ECORISK	Surface Water Low Effect ESL	Montane shrew	1.500000
12674-11-2	LANL ECORISK	Surface Water Low Effect ESL	Deer mouse	1.800000
12674-11-2	LANL ECORISK	Surface Water Low Effect ESL	Occult little brown myotis bat	2.200000
12674-11-2	LANL ECORISK	Surface Water Low Effect ESL	Mountain cottontail	3.600000
12674-11-2	LANL ECORISK	Surface Water Low Effect ESL	Gray fox	4.000000

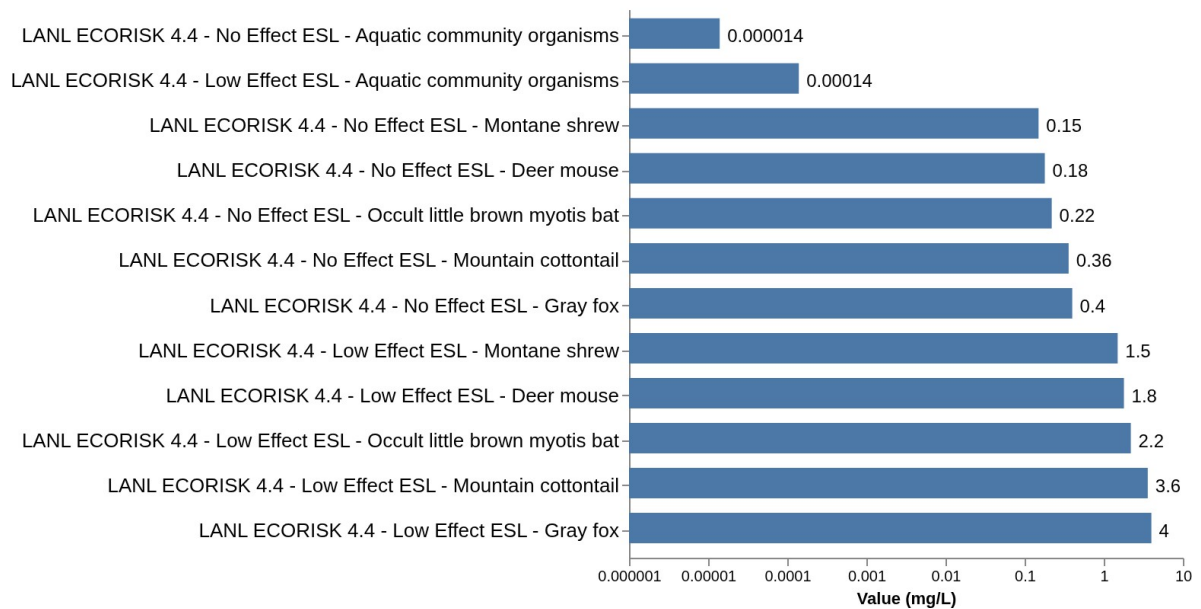
Benchmark Values for Aroclor 1016 in Surface Water

Table 30: Benchmark Values for Aroclor 1221 in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
11104-28-2	ORNL	Tier II Secondary Chronic Value	Not specified	0.00028	
11104-28-2	ORNL	Tier II Secondary Acute Value	Not specified	0.00500	
11104-28-2	ORNL	EC25 Bass Population	Not specified	0.01000	
11104-28-2	ORNL	SW Lowest Chronic Value – All Organisms	Not specified	0.06000	24
11104-28-2	ORNL	SW Lowest Chronic Value – Fish	Not specified	0.06000	24
11104-28-2	ORNL	EC20 Fish	Not specified	0.08000	29

Benchmark Values for Aroclor 1221 in Surface Water

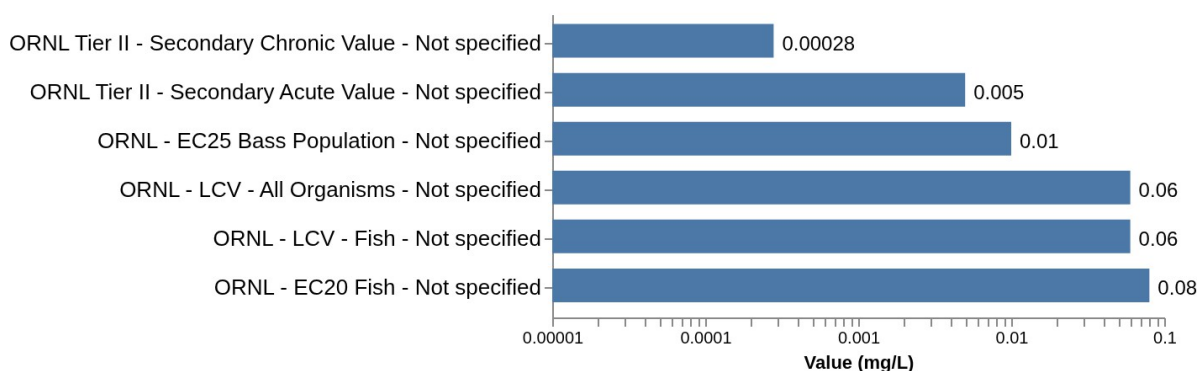


Table 31: Benchmark Values for Aroclor 1232 in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
11141-16-5	ORNL	Tier II Secondary Chronic Value	Not specified	0.00058	
11141-16-5	ORNL	Tier II Secondary Acute Value	Not specified	0.01000	
11141-16-5	ORNL	EC25 Bass Population	Not specified	0.01600	
11141-16-5	ORNL	SW Lowest Chronic Value – Fish	Not specified	0.12400	24
11141-16-5	ORNL	SW Lowest Chronic Value – All Organisms	Not specified	0.12400	24
11141-16-5	ORNL	EC20 Fish	Not specified	0.14800	29

Benchmark Values for Aroclor 1232 in Surface Water

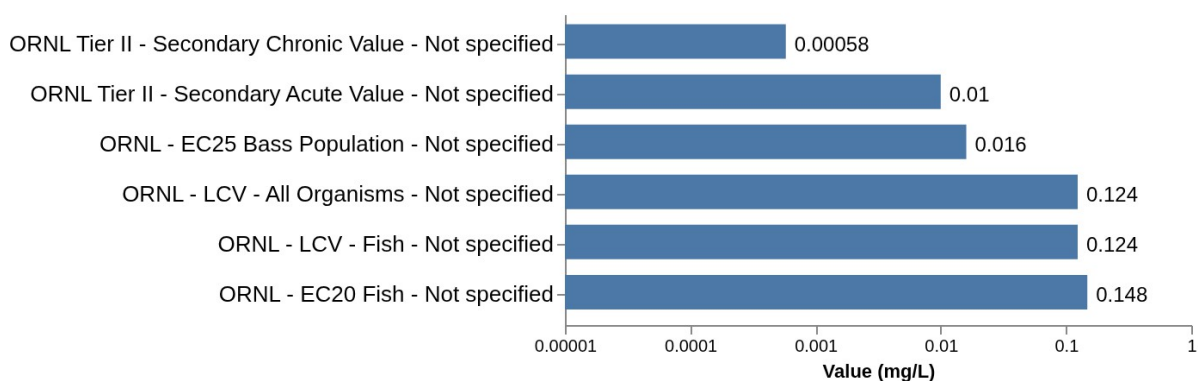


Table 32: Benchmark Values for Aroclor 1242 in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
53469-21-9	LANL ECORISK	Surface Water No Effect ESL	Aquatic community organisms	0.000014	
53469-21-9	LANL ECORISK	Surface Water Low Effect ESL	Aquatic community organisms	0.000140	
53469-21-9	LANL ECORISK	Surface Water No Effect ESL	Violet-green swallow	0.410000	
53469-21-9	LANL ECORISK	Surface Water No Effect ESL	Montane shrew	0.420000	
53469-21-9	LANL ECORISK	Surface Water No Effect ESL	Deer mouse	0.490000	
53469-21-9	LANL ECORISK	Surface Water No Effect ESL	Occult little brown myotis bat	0.590000	
53469-21-9	LANL ECORISK	Surface Water No Effect ESL	American robin	0.710000	
53469-21-9	LANL ECORISK	Surface Water No Effect ESL	American kestrel	0.830000	
53469-21-9	LANL ECORISK	Surface Water No Effect ESL	Mountain cottontail	0.960000	
53469-21-9	LANL ECORISK	Surface Water No Effect ESL	Gray fox	1.000000	
53469-21-9	LANL ECORISK	Surface Water Low Effect ESL	Violet-green swallow	4.100000	
53469-21-9	LANL ECORISK	Surface Water Low Effect ESL	Montane shrew	4.200000	
53469-21-9	LANL ECORISK	Surface Water Low Effect ESL	Deer mouse	4.900000	
53469-21-9	LANL ECORISK	Surface Water Low Effect ESL	Occult little brown myotis bat	5.900000	
53469-21-9	LANL ECORISK	Surface Water Low Effect ESL	American robin	7.100000	
53469-21-9	LANL ECORISK	Surface Water Low Effect ESL	American kestrel	8.300000	
53469-21-9	LANL ECORISK	Surface Water Low Effect ESL	Mountain cottontail	9.600000	
53469-21-9	LANL ECORISK	Surface Water Low Effect ESL	Gray fox	10.000000	
53469-21-9	ORNL	Tier II Secondary Chronic Value	Not specified	0.000053	
53469-21-9	ORNL	Tier II Secondary Acute Value	Not specified	0.001200	
53469-21-9	ORNL	EC25 Bass Population	Not specified	0.001580	
53469-21-9	ORNL	EC20 Fish	Not specified	0.002900	23
53469-21-9	ORNL	SW Lowest Chronic Value – Non-Daphnid Inverts	Not specified	0.004900	
53469-21-9	ORNL	SW Lowest Chronic Value – All Organisms	Not specified	0.004900	
53469-21-9	ORNL	SW Lowest Chronic Value – Fish	Not specified	0.009000	
53469-21-9	ORNL	SW Lowest Chronic Value – Aquatic Plants	Not specified	0.300000	

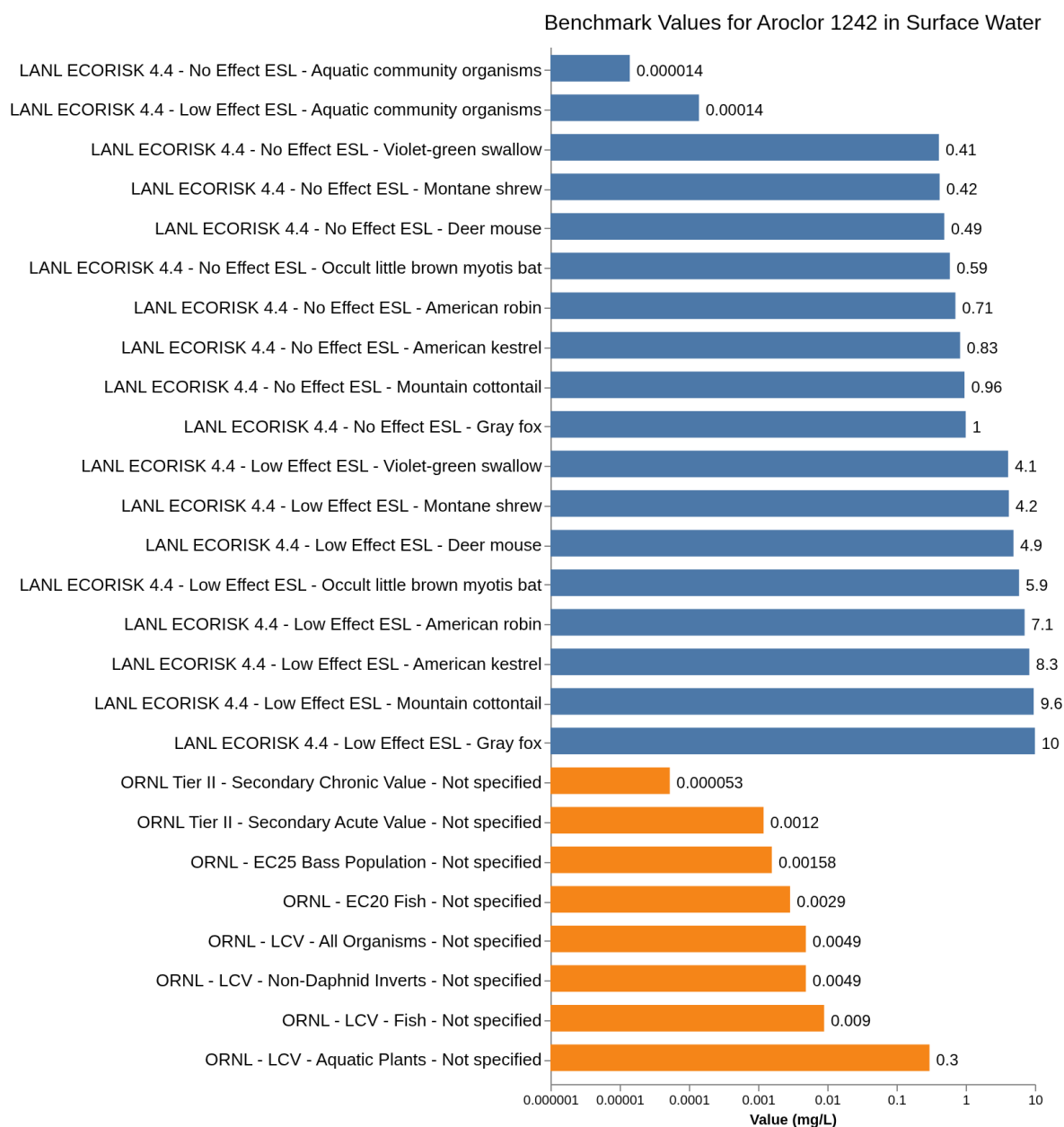


Table 33: Benchmark Values for Aroclor 1248 in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
12672-29-6	LANL ECORISK	Surface Water No Effect ESL	Aquatic community organisms	0.000014	
12672-29-6	LANL ECORISK	Surface Water Low Effect ESL	Aquatic community organisms	0.000140	
12672-29-6	LANL ECORISK	Surface Water No Effect ESL	Montane shrew	0.044000	
12672-29-6	LANL ECORISK	Surface Water No Effect ESL	Deer mouse	0.052000	
12672-29-6	LANL ECORISK	Surface Water No Effect ESL	Occult little brown myotis bat	0.062000	
12672-29-6	LANL ECORISK	Surface Water No Effect ESL	Mountain cottontail	0.100000	
12672-29-6	LANL ECORISK	Surface Water No Effect ESL	Gray fox	0.110000	
12672-29-6	LANL ECORISK	Surface Water No Effect ESL	Violet-green swallow	0.410000	
12672-29-6	LANL ECORISK	Surface Water Low Effect ESL	Montane shrew	0.440000	
12672-29-6	LANL ECORISK	Surface Water Low Effect ESL	Deer mouse	0.520000	
12672-29-6	LANL ECORISK	Surface Water Low Effect ESL	Occult little brown myotis bat	0.620000	
12672-29-6	LANL ECORISK	Surface Water No Effect ESL	American robin	0.710000	
12672-29-6	LANL ECORISK	Surface Water No Effect ESL	American kestrel	0.830000	
12672-29-6	LANL ECORISK	Surface Water Low Effect ESL	Mountain cottontail	1.000000	
12672-29-6	LANL ECORISK	Surface Water Low Effect ESL	Gray fox	1.100000	
12672-29-6	LANL ECORISK	Surface Water Low Effect ESL	Violet-green swallow	4.100000	
12672-29-6	LANL ECORISK	Surface Water Low Effect ESL	American robin	7.100000	
12672-29-6	LANL ECORISK	Surface Water Low Effect ESL	American kestrel	8.300000	
12672-29-6	ORNL	Tier II Secondary Chronic Value	Not specified	0.000081	
12672-29-6	ORNL	EC20 Fish	Not specified	0.000400	
12672-29-6	ORNL	EC25 Bass Population	Not specified	0.001260	
12672-29-6	ORNL	Tier II Secondary Acute Value	Not specified	0.001400	
12672-29-6	ORNL	EC20 Daphnids	Not specified	0.002500	31

Benchmark Values for Aroclor 1248 in Surface Water

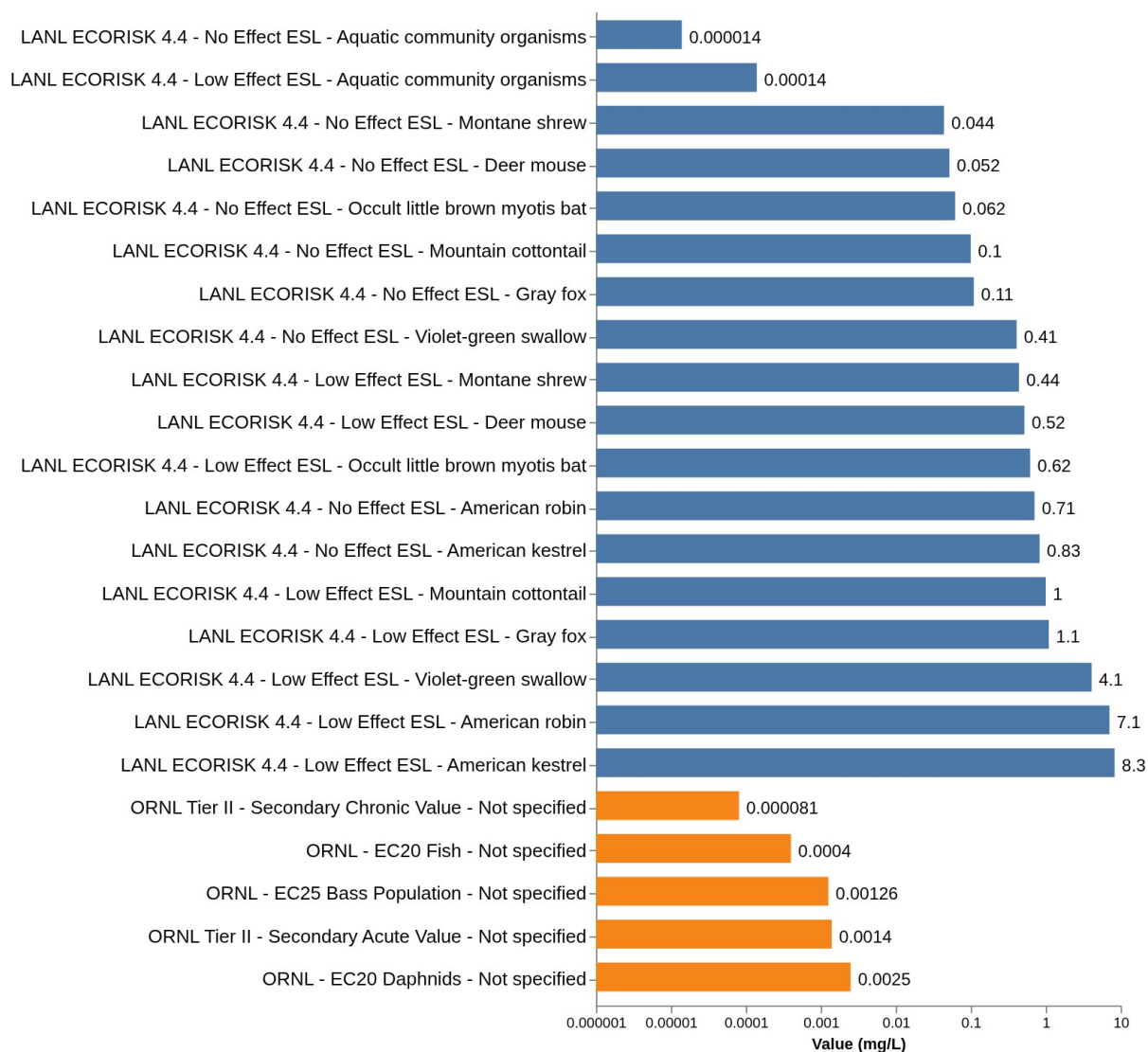


Table 34: Benchmark Values for Aroclor 1254 in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
11097-69-1	LANL ECORISK	Surface Water No Effect ESL	Aquatic community organisms	0.000014	
11097-69-1	LANL ECORISK	Surface Water Low Effect ESL	Aquatic community organisms	0.000140	
11097-69-1	LANL ECORISK	Surface Water No Effect ESL	Montane shrew	0.130000	
11097-69-1	LANL ECORISK	Surface Water No Effect ESL	Deer mouse	0.160000	
11097-69-1	LANL ECORISK	Surface Water No Effect ESL	Occult little brown myotis bat	0.190000	
11097-69-1	LANL ECORISK	Surface Water No Effect ESL	Mountain cottontail	0.310000	
11097-69-1	LANL ECORISK	Surface Water No Effect ESL	Gray fox	0.360000	
11097-69-1	LANL ECORISK	Surface Water No Effect ESL	Violet-green swallow	0.410000	
11097-69-1	LANL ECORISK	Surface Water No Effect ESL	American robin	0.710000	
11097-69-1	LANL ECORISK	Surface Water No Effect ESL	American kestrel	0.830000	
11097-69-1	LANL ECORISK	Surface Water Low Effect ESL	Montane shrew	1.300000	
11097-69-1	LANL ECORISK	Surface Water Low Effect ESL	Deer mouse	1.600000	
11097-69-1	LANL ECORISK	Surface Water Low Effect ESL	Occult little brown myotis bat	1.900000	
11097-69-1	LANL ECORISK	Surface Water Low Effect ESL	Mountain cottontail	3.100000	
11097-69-1	LANL ECORISK	Surface Water Low Effect ESL	Gray fox	3.600000	
11097-69-1	LANL ECORISK	Surface Water Low Effect ESL	Violet-green swallow	4.100000	
11097-69-1	LANL ECORISK	Surface Water Low Effect ESL	American robin	7.100000	
11097-69-1	LANL ECORISK	Surface Water Low Effect ESL	American kestrel	8.300000	
11097-69-1	ORNL	Tier II Secondary Chronic Value	Not specified	0.000033	
11097-69-1	ORNL	SW Lowest Chronic Value – All Organisms	Not specified	0.000100	
11097-69-1	ORNL	SW Lowest Chronic Value – Aquatic Plants	Not specified	0.000100	
11097-69-1	ORNL	EC20 Fish	Not specified	0.000520	
11097-69-1	ORNL	Tier II Secondary Acute Value	Not specified	0.000600	
11097-69-1	ORNL	EC25 Bass Population	Not specified	0.000630	
11097-69-1	ORNL	EC20 Daphnids	Not specified	0.001200	31
11097-69-1	ORNL	SW Lowest Chronic Value – Daphnids	Not specified	0.002900	

Benchmark Values for Aroclor 1254 in Surface Water

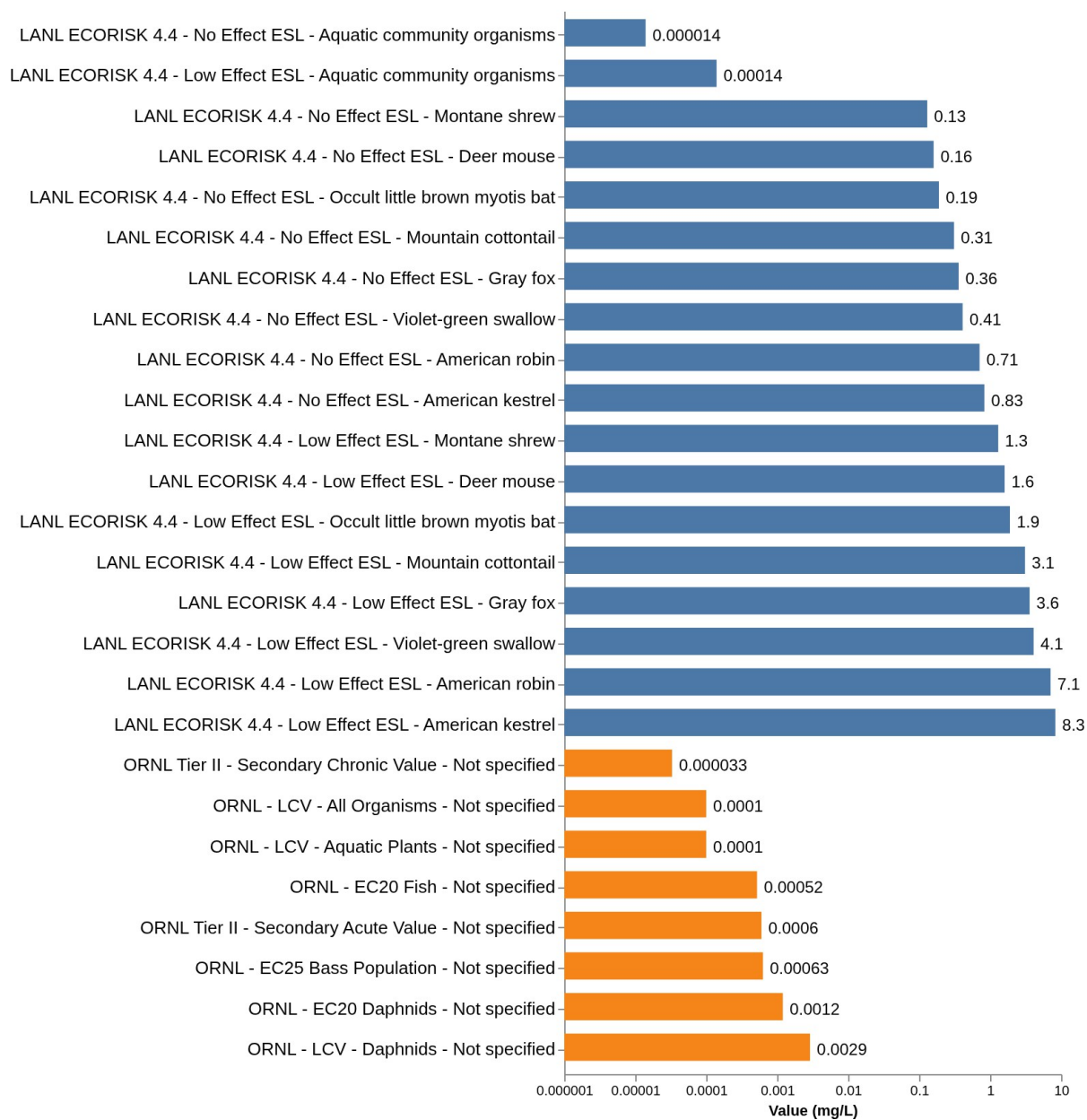


Table 35: Benchmark Values for Aroclor 1260 in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
11096-82-5	LANL ECORISK	Surface Water No Effect ESL	Aquatic community organisms	0.000014	
11096-82-5	LANL ECORISK	Surface Water Low Effect ESL	Aquatic community organisms	0.000140	
11096-82-5	LANL ECORISK	Surface Water No Effect ESL	Montane shrew	0.130000	
11096-82-5	LANL ECORISK	Surface Water No Effect ESL	Deer mouse	0.160000	
11096-82-5	LANL ECORISK	Surface Water No Effect ESL	Occult little brown myotis bat	0.190000	
11096-82-5	LANL ECORISK	Surface Water No Effect ESL	Mountain cottontail	0.310000	
11096-82-5	LANL ECORISK	Surface Water No Effect ESL	Gray fox	0.360000	
11096-82-5	LANL ECORISK	Surface Water Low Effect ESL	Montane shrew	1.300000	
11096-82-5	LANL ECORISK	Surface Water Low Effect ESL	Deer mouse	1.600000	
11096-82-5	LANL ECORISK	Surface Water Low Effect ESL	Occult little brown myotis bat	1.900000	
11096-82-5	LANL ECORISK	Surface Water Low Effect ESL	Mountain cottontail	3.100000	
11096-82-5	LANL ECORISK	Surface Water Low Effect ESL	Gray fox	3.600000	
11096-82-5	LANL ECORISK	Surface Water No Effect ESL	Violet-green swallow	4.400000	
11096-82-5	LANL ECORISK	Surface Water No Effect ESL	American robin	7.600000	
11096-82-5	LANL ECORISK	Surface Water No Effect ESL	American kestrel	8.900000	
11096-82-5	LANL ECORISK	Surface Water Low Effect ESL	Violet-green swallow	44.000000	
11096-82-5	LANL ECORISK	Surface Water Low Effect ESL	American robin	76.000000	
11096-82-5	LANL ECORISK	Surface Water Low Effect ESL	American kestrel	89.000000	
11096-82-5	ORNL	SW Lowest Chronic Value – Fish	Not specified	0.001300	23
11096-82-5	ORNL	EC20 Fish	Not specified	0.002100	
11096-82-5	ORNL	SW Lowest Chronic Value – All Organisms	Not specified	0.002300	
11096-82-5	ORNL	Tier II Secondary Chronic Value	Not specified	0.094000	
11096-82-5	ORNL	EC25 Bass Population	Not specified	0.316000	
11096-82-5	ORNL	Tier II Secondary Acute Value	Not specified	1.700000	

Benchmark Values for Aroclor 1260 in Surface Water

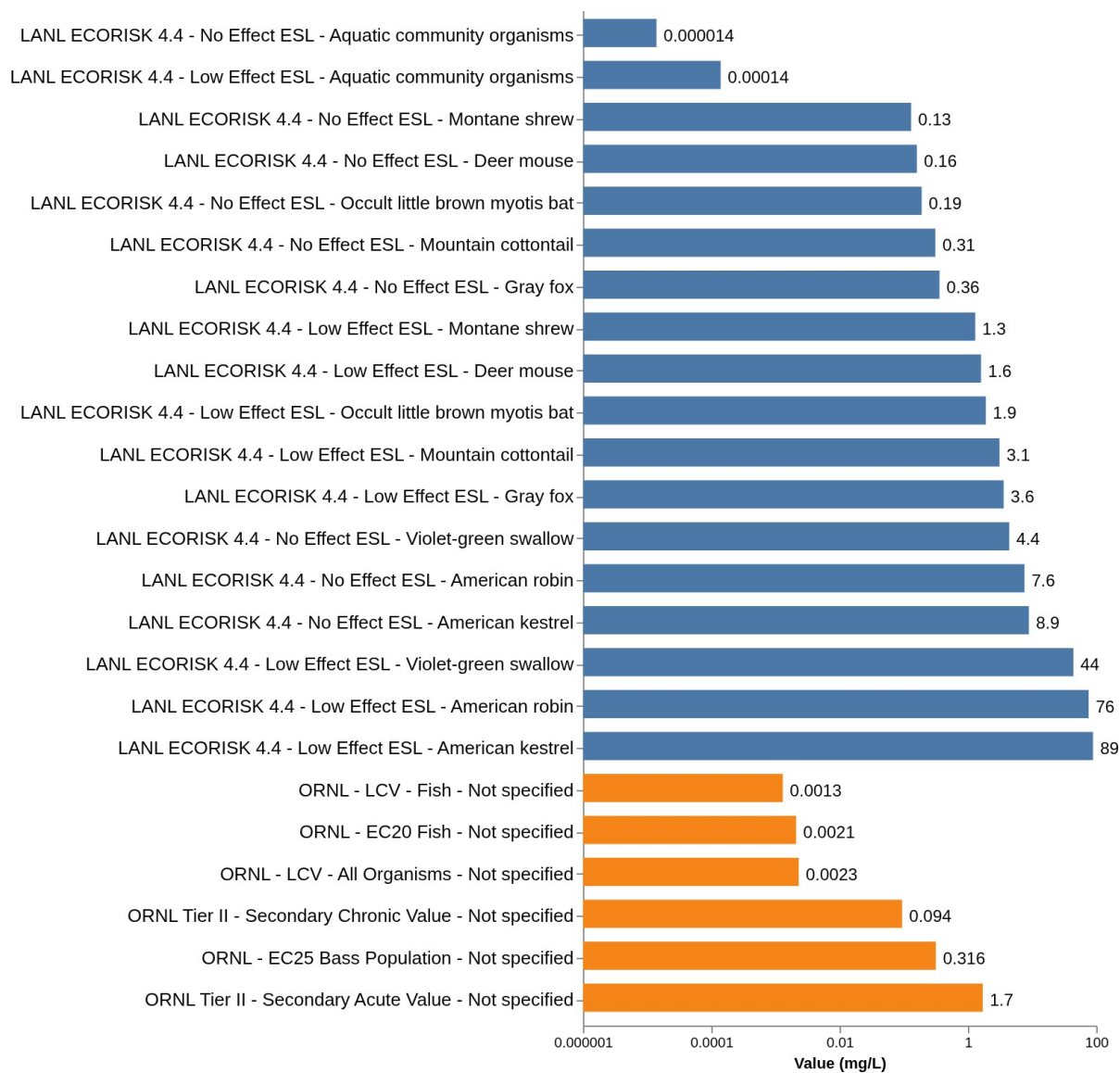


Table 36: Benchmark Values for Arsenic (III) in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
22541-54-4	Florida	SWQS for Shellfish Propagation or Harvesting	Not specified	0.0360
22541-54-4	ORNL	SW Lowest Chronic Value – Daphnids	Not specified	0.9140
22541-54-4	ORNL	SW Lowest Chronic Value – All Organisms	Not specified	0.9141
22541-54-4	ORNL	SW Lowest Chronic Value – Aquatic Plants	Not specified	2.3200
22541-54-4	ORNL	SW Lowest Chronic Value – Fish	Not specified	2.9600

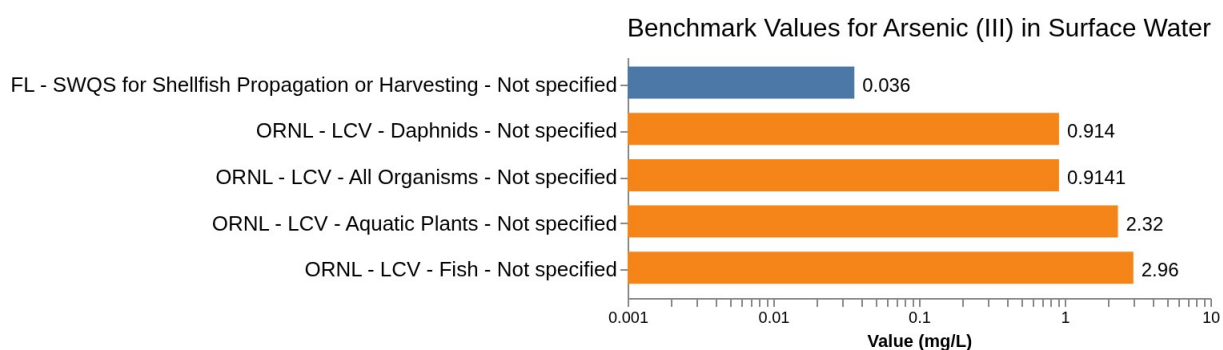


Table 37: Benchmark Values for Arsenic V in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
17428-41-0	ORNL	Tier II Secondary Acute Value	Not specified	0.000066	
17428-41-0	ORNL	Tier II Secondary Chronic Value	Not specified	0.003100	
17428-41-0	ORNL	SW Lowest Chronic Value – All Organisms	Not specified	0.048000	
17428-41-0	ORNL	SW Lowest Chronic Value – Aquatic Plants	Not specified	0.048000	
17428-41-0	ORNL	EC25 Bass Population	Not specified	0.185000	
17428-41-0	ORNL	SW Lowest Chronic Value – Daphnids	Not specified	0.450000	24
17428-41-0	ORNL	SW Lowest Chronic Value – Fish	Not specified	0.892000	
17428-41-0	ORNL	EC20 Daphnids	Not specified	0.932000	22
17428-41-0	ORNL	EC20 Fish	Not specified	1.500000	

Benchmark Values for Arsenic V in Surface Water

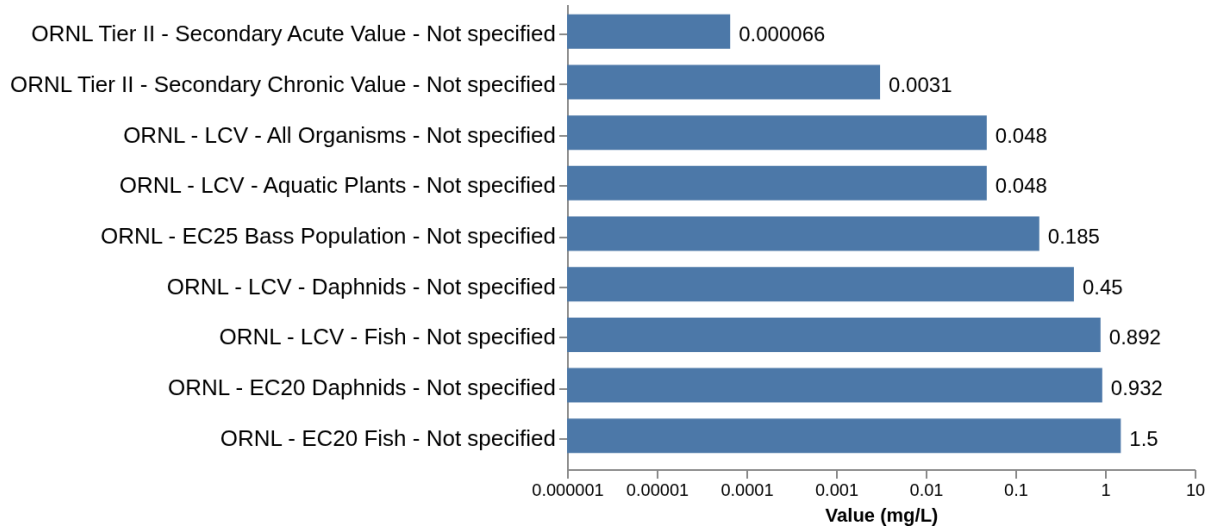


Table 38: Benchmark Values for Arsenic, Inorganic in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
7440-38-2	British Columbia	Livestock Maximum	Not specified	0.025	229
7440-38-2	British Columbia	Freshwater Maximum	Not specified	0.025	229
7440-38-2	British Columbia	Irrigation Maximum	Not specified	0.100	229
7440-38-2	Canada	Water Livestock	Not specified	0.025	
7440-38-2	Canada	Water Irrigation	Not specified	0.100	
7440-38-2	EPA Region 5	EPA RCRA Surface Water	Not specified	0.148	
7440-38-2	Florida	SWQS for Shellfish Propagation or Harvesting	Not specified	0.050	
7440-38-2	LANL ECORISK	Surface Water No Effect ESL	Aquatic community organisms	0.150	
7440-38-2	LANL ECORISK	Surface Water Low Effect ESL	Aquatic community organisms	0.340	
7440-38-2	LANL ECORISK	Surface Water No Effect ESL	Montane shrew	0.560	
7440-38-2	LANL ECORISK	Surface Water No Effect ESL	Deer mouse	0.660	
7440-38-2	LANL ECORISK	Surface Water No Effect ESL	Occult little brown myotis bat	0.790	
7440-38-2	LANL ECORISK	Surface Water No Effect ESL	Mountain cottontail	1.200	
7440-38-2	LANL ECORISK	Surface Water No Effect ESL	Gray fox	1.400	
7440-38-2	LANL ECORISK	Surface Water Low Effect ESL	Montane shrew	5.600	
7440-38-2	LANL ECORISK	Surface Water Low Effect ESL	Deer mouse	6.600	
7440-38-2	LANL ECORISK	Surface Water Low Effect ESL	Occult little brown myotis bat	7.900	
7440-38-2	LANL ECORISK	Surface Water Low Effect ESL	Mountain cottontail	12.000	
7440-38-2	LANL ECORISK	Surface Water Low Effect ESL	Gray fox	14.000	
7440-38-2	LANL ECORISK	Surface Water No Effect ESL	Violet-green swallow	21.000	
7440-38-2	LANL ECORISK	Surface Water No Effect ESL	American robin	36.000	
7440-38-2	LANL ECORISK	Surface Water No Effect ESL	American kestrel	42.000	
7440-38-2	LANL ECORISK	Surface Water Low Effect ESL	Violet-green swallow	52.000	
7440-38-2	LANL ECORISK	Surface Water Low Effect ESL	American robin	91.000	
7440-38-2	LANL ECORISK	Surface Water Low Effect ESL	American kestrel	100.000	
7440-38-2	ORNL	EC20 Sensitive Species	Not specified	0.055	
7440-38-2	ORNL	EC20 Daphnids	Not specified	0.633	
7440-38-2	ORNL	EC25 Bass Population	Not specified	2.000	
7440-38-2	ORNL	EC20 Fish	Not specified	2.130	
7440-38-2	Ohio	OMZA	Not specified	0.150	165, 190
7440-38-2	Ohio	OMZM	Not specified	0.340	165, 190
7440-38-2	Ohio	IMZM	Not specified	0.680	165, 190

Benchmark Values for Arsenic, Inorganic in Surface Water

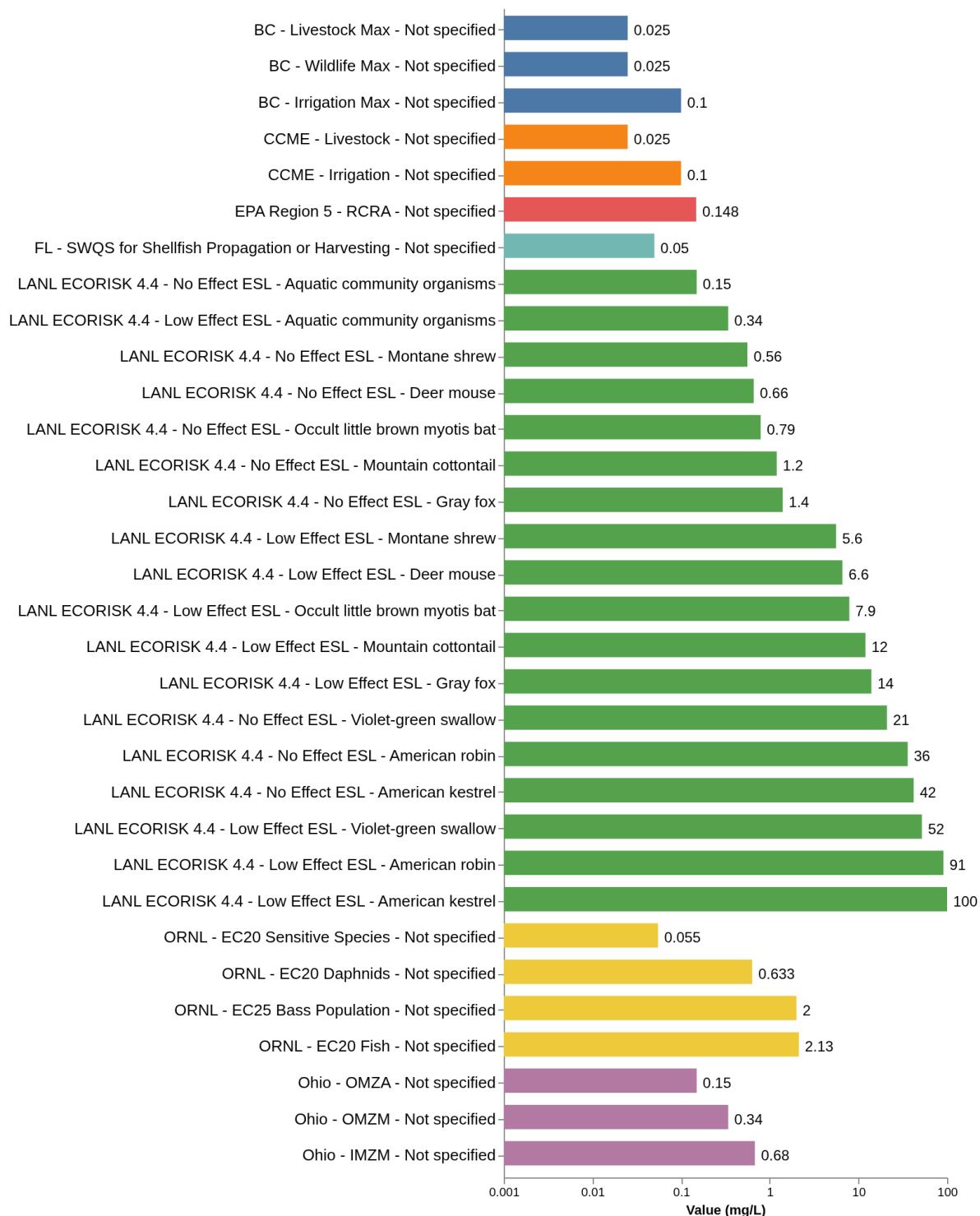


Table 39: Benchmark Values for Atrazine in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
1912-24-9	Canada	Water Livestock	Not specified	0.005
1912-24-9	Canada	Water Irrigation	Not specified	0.010
1912-24-9	Illinois	Chronic – General Use	Not specified	0.009
1912-24-9	Illinois	Acute – General Use	Not specified	0.082

Benchmark Values for Atrazine in Surface Water

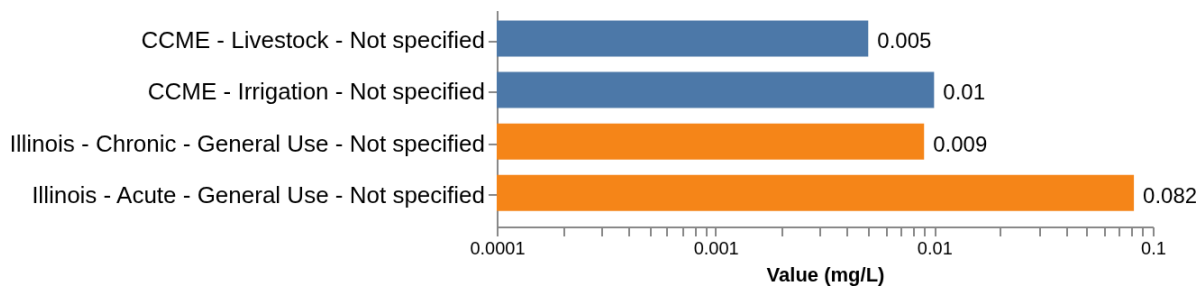


Table 40: Benchmark Values for Azinphos-methyl in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
86-50-0	Florida	SWQS for Shellfish Propagation or Harvesting	Not specified	0.00001	
86-50-0	Illinois	Chronic – General Use	Not specified	0.00001	196

Benchmark Values for Azinphos-methyl in Surface Water

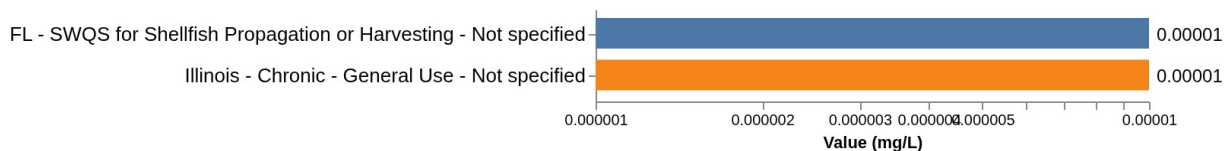


Table 41: Benchmark Values for Barium in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
7440-39-3	EPA Region 5	EPA RCRA Surface Water	Not specified	0.2200	
7440-39-3	LANL ECORISK	Surface Water No Effect ESL	Aquatic community organisms	0.0039	
7440-39-3	LANL ECORISK	Surface Water Low Effect ESL	Aquatic community organisms	0.0390	
7440-39-3	LANL ECORISK	Surface Water No Effect ESL	Montane shrew	6.1000	
7440-39-3	LANL ECORISK	Surface Water No Effect ESL	Deer mouse	7.2000	
7440-39-3	LANL ECORISK	Surface Water No Effect ESL	Occult little brown myotis bat	8.6000	
7440-39-3	LANL ECORISK	Surface Water Low Effect ESL	Montane shrew	8.8000	
7440-39-3	LANL ECORISK	Surface Water Low Effect ESL	Deer mouse	10.0000	
7440-39-3	LANL ECORISK	Surface Water Low Effect ESL	Occult little brown myotis bat	12.0000	
7440-39-3	LANL ECORISK	Surface Water No Effect ESL	Mountain cottontail	14.0000	
7440-39-3	LANL ECORISK	Surface Water No Effect ESL	Gray fox	16.0000	
7440-39-3	LANL ECORISK	Surface Water Low Effect ESL	Mountain cottontail	20.0000	
7440-39-3	LANL ECORISK	Surface Water Low Effect ESL	Gray fox	23.0000	
7440-39-3	LANL ECORISK	Surface Water No Effect ESL	Violet-green swallow	380.0000	
7440-39-3	LANL ECORISK	Surface Water No Effect ESL	American robin	650.0000	
7440-39-3	LANL ECORISK	Surface Water No Effect ESL	American kestrel	760.0000	
7440-39-3	LANL ECORISK	Surface Water Low Effect ESL	Violet-green swallow	760.0000	
7440-39-3	LANL ECORISK	Surface Water Low Effect ESL	American robin	1300.0000	
7440-39-3	LANL ECORISK	Surface Water Low Effect ESL	American kestrel	1500.0000	
7440-39-3	ORNL	Tier II Secondary Chronic Value	Not specified	0.0040	
7440-39-3	ORNL	Tier II Secondary Acute Value	Not specified	0.1100	

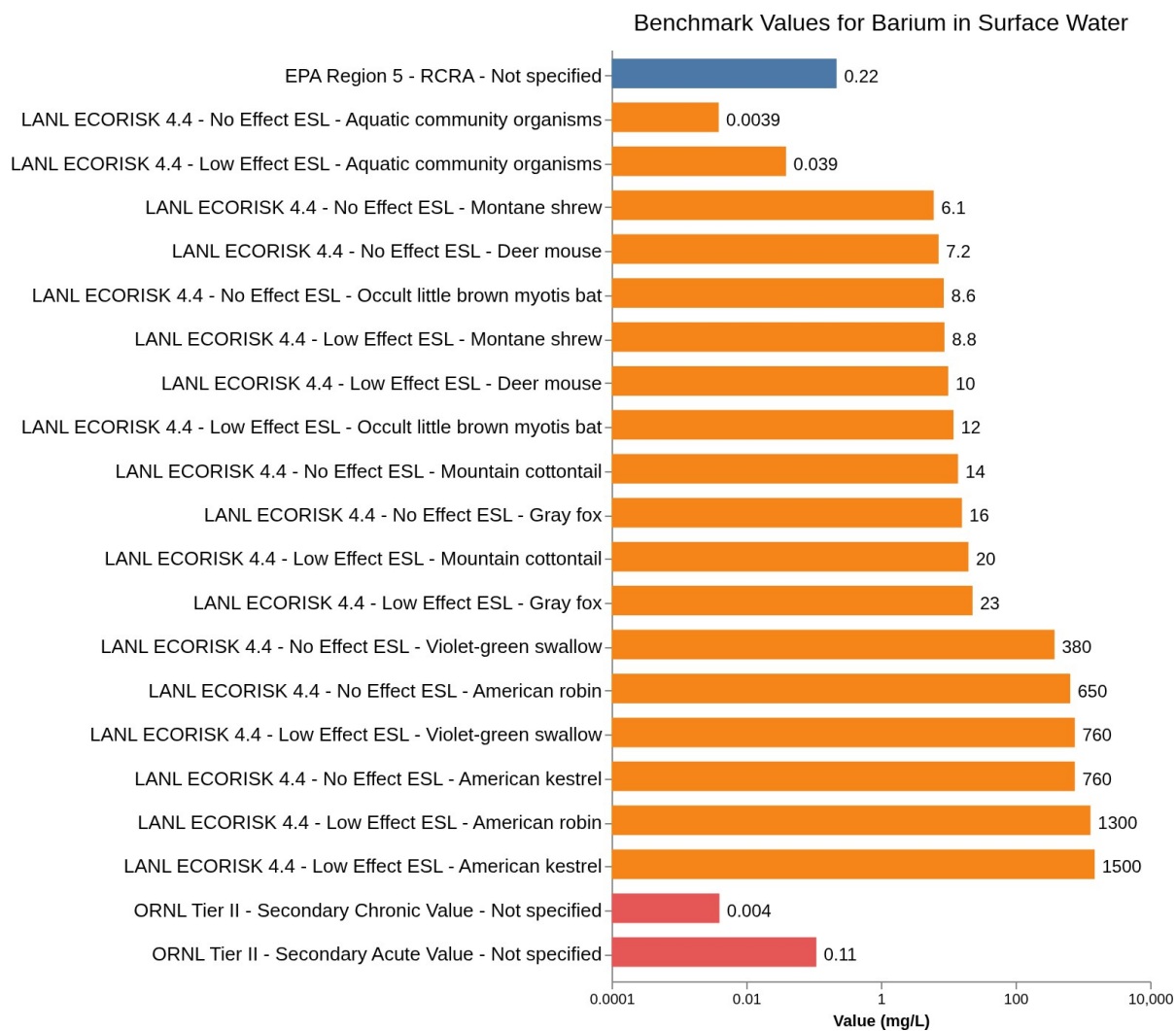


Table 42: Benchmark Values for Benomyl in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
17804-35-2	Florida	Freshwater and Marine Water Contaminant Cleanup	Not specified	0.0003

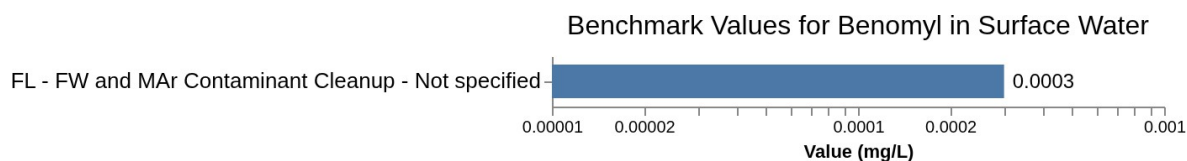


Table 43: Benchmark Values for Benz[a]anthracene in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
56-55-3	EPA ESBs	Final Chronic Value	Not specified	0.002227	
56-55-3	EPA Region 4	Freshwater and Saltwater Chronic for PAHs	Not specified	0.002200	
56-55-3	EPA Region 4	Freshwater and Saltwater Acute for PAHs	Not specified	0.004600	
56-55-3	EPA Region 5	EPA RCRA Surface Water	Not specified	0.000025	
56-55-3	Florida	Freshwater and Marine Water Contaminant Cleanup	Not specified	9.000000	
56-55-3	LANL ECORISK	Surface Water No Effect ESL	Aquatic community organisms	0.000027	
56-55-3	LANL ECORISK	Surface Water Low Effect ESL	Aquatic community organisms	0.000270	
56-55-3	LANL ECORISK	Surface Water No Effect ESL	Montane shrew	0.760000	
56-55-3	LANL ECORISK	Surface Water No Effect ESL	Deer mouse	0.890000	
56-55-3	LANL ECORISK	Surface Water No Effect ESL	Occult little brown myotis bat	1.000000	
56-55-3	LANL ECORISK	Surface Water No Effect ESL	Mountain cottontail	1.700000	
56-55-3	LANL ECORISK	Surface Water No Effect ESL	Gray fox	1.900000	
56-55-3	LANL ECORISK	Surface Water Low Effect ESL	Montane shrew	7.600000	
56-55-3	LANL ECORISK	Surface Water Low Effect ESL	Deer mouse	8.900000	
56-55-3	LANL ECORISK	Surface Water Low Effect ESL	Occult little brown myotis bat	10.000000	
56-55-3	LANL ECORISK	Surface Water Low Effect ESL	Mountain cottontail	17.000000	
56-55-3	LANL ECORISK	Surface Water Low Effect ESL	Gray fox	19.000000	
56-55-3	ORNL	Tier II Secondary Chronic Value	Not specified	0.000027	
56-55-3	ORNL	Tier II Secondary Acute Value	Not specified	0.000490	
56-55-3	ORNL	SW Lowest Chronic Value – Daphnids	Not specified	0.000650	24
56-55-3	ORNL	SW Lowest Chronic Value – All Organisms	Not specified	0.000650	24

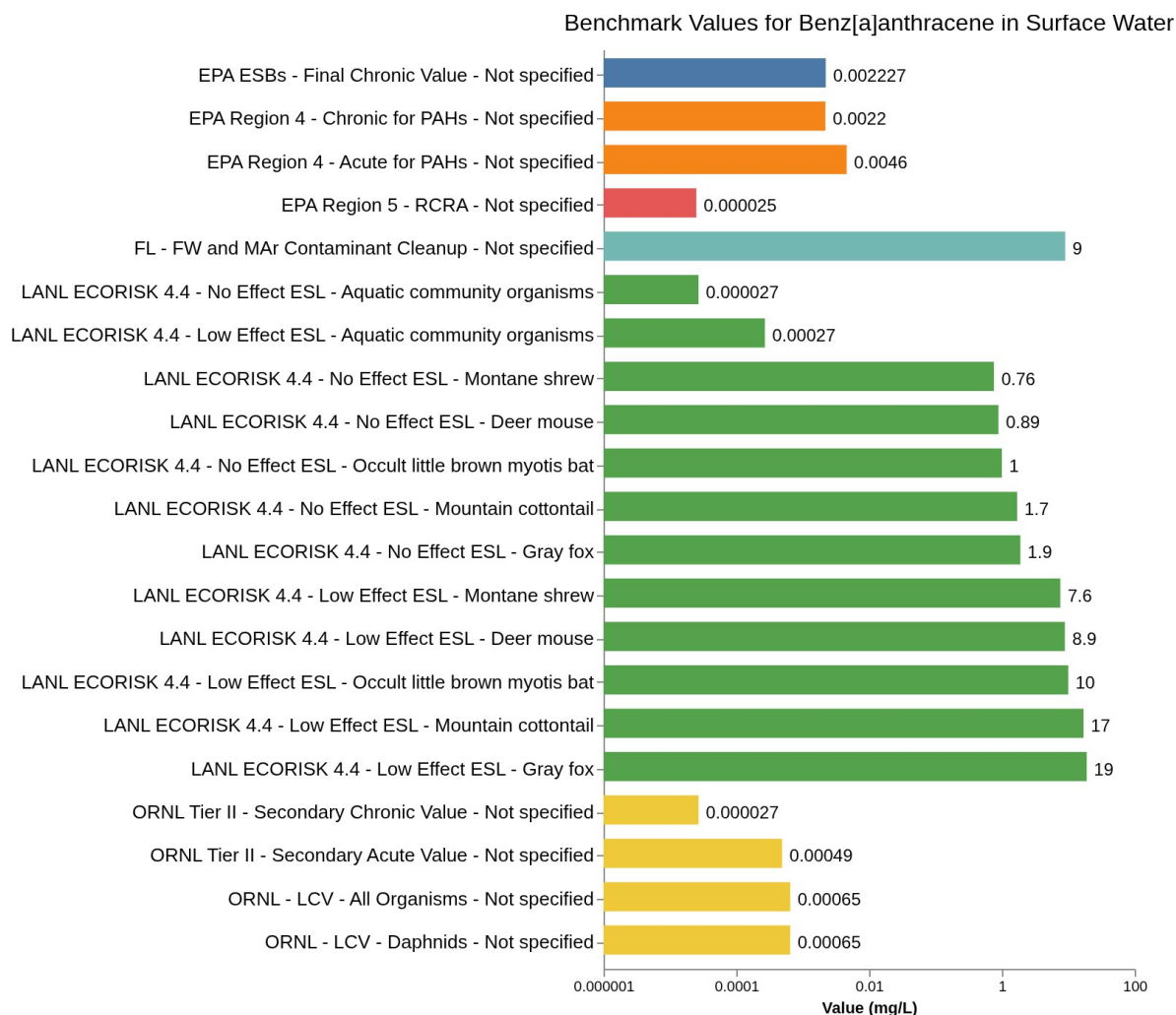


Table 44: Benchmark Values for Benzaldehyde in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
100-52-7	Florida	Freshwater and Marine Water Contaminant Cleanup	Not specified	0.054
100-52-7	Illinois	Chronic – General Use	Not specified	14.000
100-52-7	Illinois	Acute – General Use	Not specified	180.000

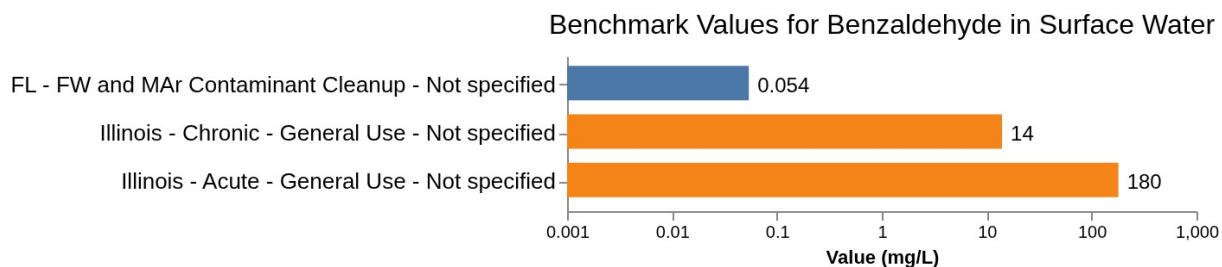


Table 45: Benchmark Values for Benzantracene/chrysenes, C1– in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
000000–14–3	EPA ESBs	Final Chronic Value	Not specified	0.000856
000000–14–3	EPA Region 4	Freshwater and Saltwater Chronic for PAHs	Not specified	0.000860
000000–14–3	EPA Region 4	Freshwater and Saltwater Acute for PAHs	Not specified	0.001800

Benchmark Values for Benzantracene/chrysenes, C1- in Surface Water

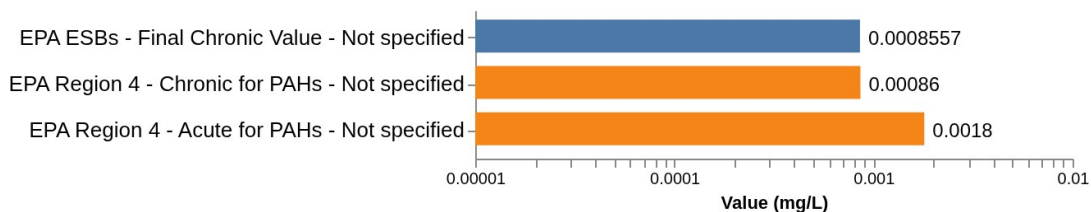


Table 46: Benchmark Values for Benzantracene/chrysenes, C2– in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
000000–14–4	EPA ESBs	Final Chronic Value	Not specified	0.000483
000000–14–4	EPA Region 4	Freshwater and Saltwater Chronic for PAHs	Not specified	0.000480
000000–14–4	EPA Region 4	Freshwater and Saltwater Acute for PAHs	Not specified	0.001000

Benchmark Values for Benzantracene/chrysenes, C2- in Surface Water

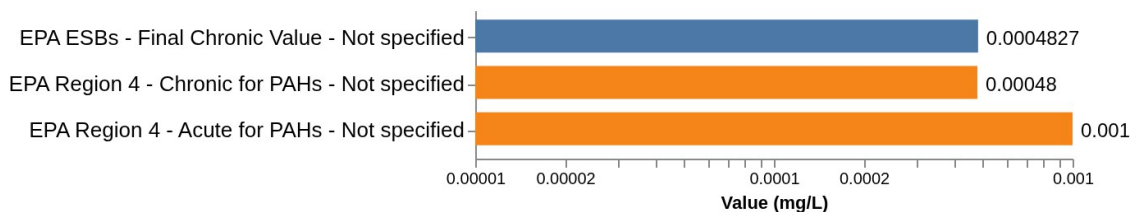


Table 47: Benchmark Values for Benzantracene/chrysenes, C3– in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
000000–14–5	EPA ESBs	Final Chronic Value	Not specified	0.000168
000000–14–5	EPA Region 4	Freshwater and Saltwater Chronic for PAHs	Not specified	0.000170
000000–14–5	EPA Region 4	Freshwater and Saltwater Acute for PAHs	Not specified	0.000350

Benchmark Values for Benzanthracene/chrysenes, C3- in Surface Water

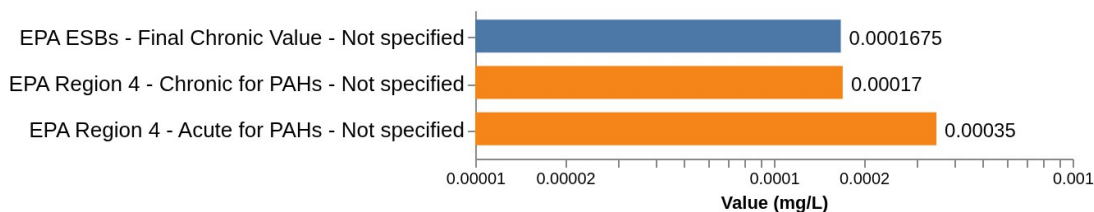


Table 48: Benchmark Values for Benzanthracene/chrysenes, C4- in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
000000-14-6	EPA ESBs	Final Chronic Value	Not specified	0.000071
000000-14-6	EPA Region 4	Freshwater and Saltwater Chronic for PAHs	Not specified	0.000070
000000-14-6	EPA Region 4	Freshwater and Saltwater Acute for PAHs	Not specified	0.000150

Benchmark Values for Benzanthracene/chrysenes, C4- in Surface Water

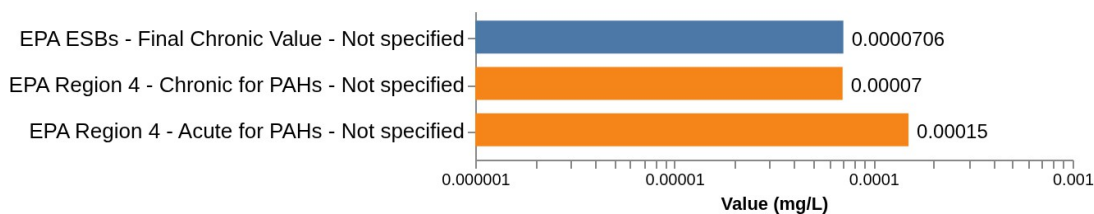


Table 49: Benchmark Values for Benzene (2-bromo-2-nitroethenyl) in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
7166-19-0	Illinois	Chronic – General Use	Not specified	0.86	195
7166-19-0	Illinois	Acute – General Use	Not specified	1.10	195

Benchmark Values for Benzene (2-bromo-2-nitroethenyl) in Surface Water

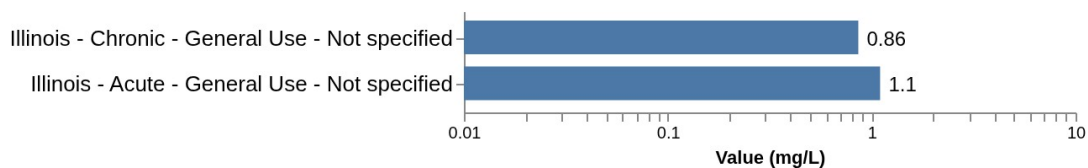


Table 50: Benchmark Values for Benzene in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
71-43-2	EPA Region 4	Freshwater and Saltwater Chronic Narcotic MOA	Not specified	2.17300	
71-43-2	EPA Region 4	Freshwater and Saltwater Acute, Narcotic MOA	Not specified	8.31700	
71-43-2	EPA Region 5	EPA RCRA Surface Water	Not specified	0.11400	
71-43-2	Florida	SWQS for Shellfish Propagation or Harvesting	Not specified	0.07128	
71-43-2	LANL ECORISK	Surface Water No Effect ESL	Aquatic community organisms	0.04600	
71-43-2	LANL ECORISK	Surface Water Low Effect ESL	Aquatic community organisms	0.46000	
71-43-2	LANL ECORISK	Surface Water No Effect ESL	Montane shrew	110.00000	
71-43-2	LANL ECORISK	Surface Water No Effect ESL	Deer mouse	130.00000	
71-43-2	LANL ECORISK	Surface Water No Effect ESL	Occult little brown myotis bat	160.00000	
71-43-2	LANL ECORISK	Surface Water No Effect ESL	Mountain cottontail	270.00000	
71-43-2	LANL ECORISK	Surface Water No Effect ESL	Gray fox	300.00000	
71-43-2	LANL ECORISK	Surface Water Low Effect ESL	Montane shrew	1100.00000	
71-43-2	LANL ECORISK	Surface Water Low Effect ESL	Deer mouse	1300.00000	
71-43-2	LANL ECORISK	Surface Water Low Effect ESL	Occult little brown myotis bat	1600.00000	
71-43-2	LANL ECORISK	Surface Water Low Effect ESL	Mountain cottontail	2700.00000	
71-43-2	LANL ECORISK	Surface Water Low Effect ESL	Gray fox	3000.00000	
71-43-2	ORNL	EC20 Fish	Not specified	0.02100	31
71-43-2	ORNL	Tier II Secondary Chronic Value	Not specified	0.13000	
71-43-2	ORNL	EC25 Bass Population	Not specified	0.22900	
71-43-2	ORNL	Tier II Secondary Acute Value	Not specified	2.30000	
71-43-2	ORNL	SW Lowest Chronic Value – Daphnids	Not specified	98.00000	22
71-43-2	ORNL	SW Lowest Chronic Value – All Organisms	Not specified	525.00000	
71-43-2	ORNL	SW Lowest Chronic Value – Aquatic Plants	Not specified	525.00000	

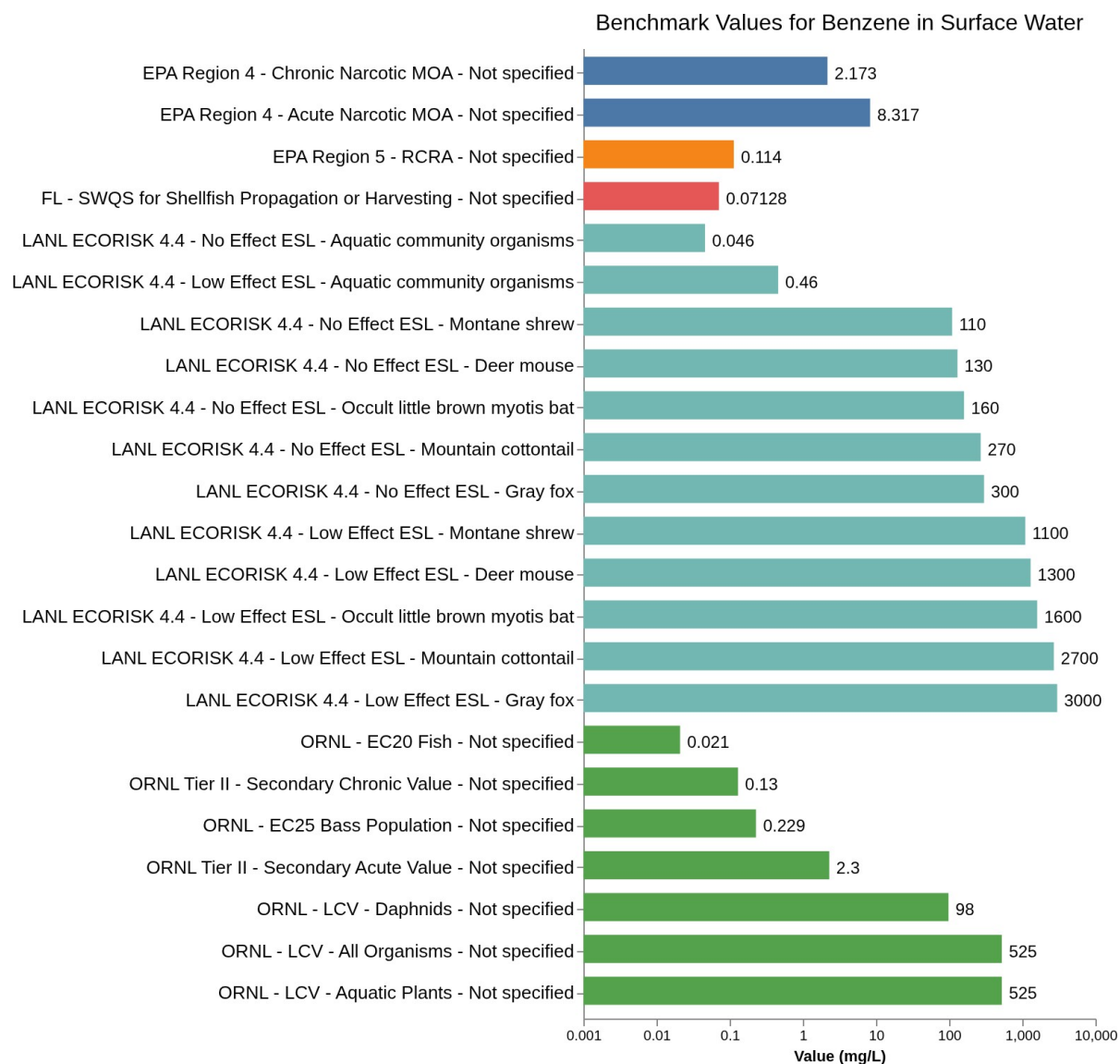


Table 51: Benchmark Values for Benzidine in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
92-87-5	ORNL	Tier II Secondary Chronic Value	Not specified	0.0039	
92-87-5	ORNL	EC25 Bass Population	Not specified	0.0680	
92-87-5	ORNL	Tier II Secondary Acute Value	Not specified	0.0700	
92-87-5	ORNL	SW Lowest Chronic Value – Fish	Not specified	0.1340	24
92-87-5	ORNL	SW Lowest Chronic Value – All Organisms	Not specified	0.1340	24
92-87-5	ORNL	EC20 Fish	Not specified	0.1580	29

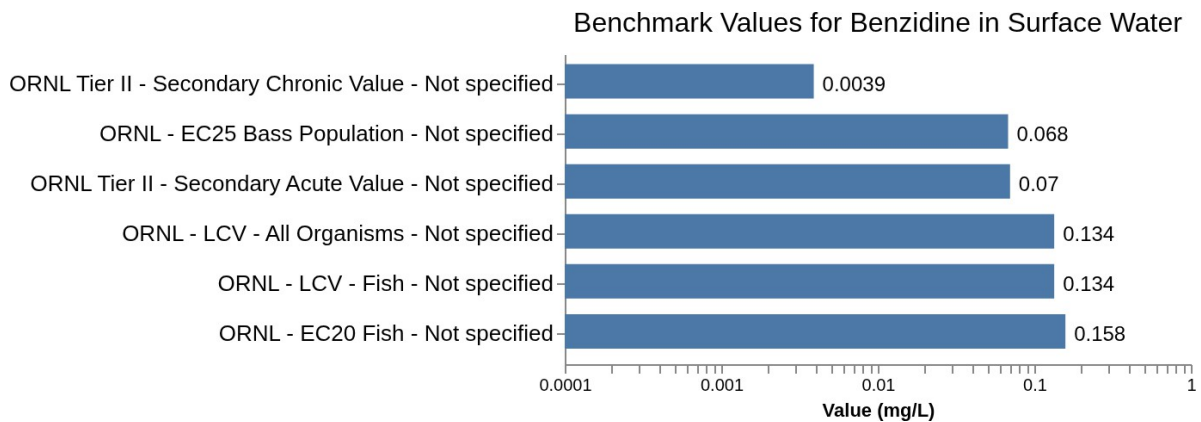


Table 52: Benchmark Values for Benzo[a]fluorene in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
238-84-6	EPA ESBs	Final Chronic Value	Not specified	0.002824

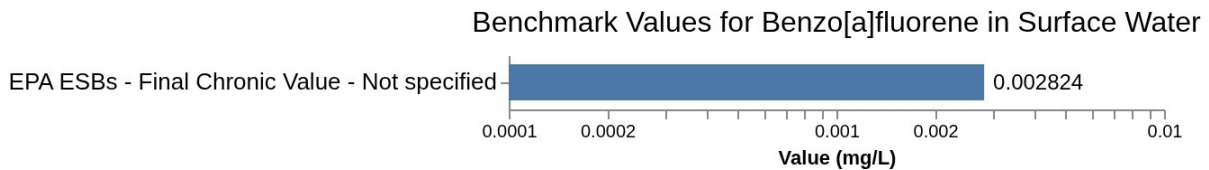


Table 53: Benchmark Values for Benzo[a]pyrene in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
50-32-8	EPA ESBs	Final Chronic Value	Not specified	0.000957	
50-32-8	EPA Region 4	Freshwater and Saltwater Chronic for PAHs	Not specified	0.000960	
50-32-8	EPA Region 4	Freshwater and Saltwater Acute for PAHs	Not specified	0.002000	
50-32-8	EPA Region 5	EPA RCRA Surface Water	Not specified	0.000014	
50-32-8	LANL ECORISK	Surface Water No Effect ESL	Aquatic community organisms	0.000014	
50-32-8	LANL ECORISK	Surface Water Low Effect ESL	Aquatic community organisms	0.000140	
50-32-8	LANL ECORISK	Surface Water No Effect ESL	Montane shrew	4.400000	
50-32-8	LANL ECORISK	Surface Water No Effect ESL	Deer mouse	5.200000	
50-32-8	LANL ECORISK	Surface Water No Effect ESL	Occult little brown myotis bat	6.200000	
50-32-8	LANL ECORISK	Surface Water No Effect ESL	Mountain cottontail	10.000000	
50-32-8	LANL ECORISK	Surface Water No Effect ESL	Gray fox	11.000000	
50-32-8	LANL ECORISK	Surface Water Low Effect ESL	Montane shrew	44.000000	
50-32-8	LANL ECORISK	Surface Water Low Effect ESL	Deer mouse	52.000000	
50-32-8	LANL ECORISK	Surface Water Low Effect ESL	Occult little brown myotis bat	62.000000	
50-32-8	LANL ECORISK	Surface Water Low Effect ESL	Mountain cottontail	100.000000	
50-32-8	LANL ECORISK	Surface Water Low Effect ESL	Gray fox	110.000000	
50-32-8	ORNL	Tier II Secondary Chronic Value	Not specified	0.000014	
50-32-8	ORNL	Tier II Secondary Acute Value	Not specified	0.000240	
50-32-8	ORNL	SW Lowest Chronic Value – Daphnids	Not specified	0.000300	24
50-32-8	ORNL	SW Lowest Chronic Value – All Organisms	Not specified	0.000300	24
50-32-8	ORNL	EC20 Fish	Not specified	0.002990	22

Benchmark Values for Benzo[a]pyrene in Surface Water

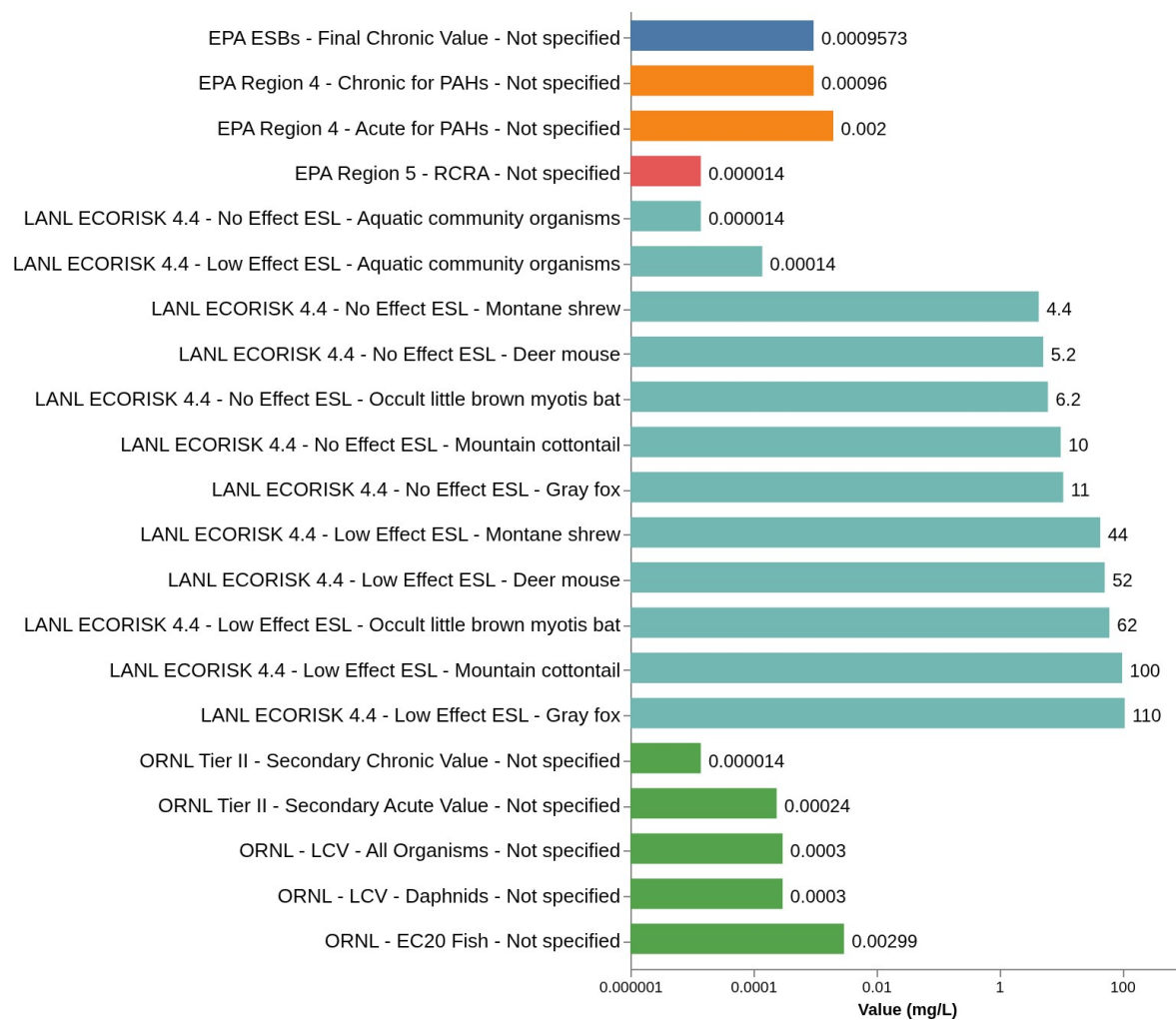


Table 54: Benchmark Values for Benzo[b]fluoranthene in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
205-99-2	EPA ESBs	Final Chronic Value	Not specified	0.000677	
205-99-2	EPA Region 4	Freshwater and Saltwater Chronic for PAHs	Not specified	0.000680	7
205-99-2	EPA Region 4	Freshwater and Saltwater Acute for PAHs	Not specified	0.001400	7
205-99-2	EPA Region 5	EPA RCRA Surface Water	Not specified	0.009070	
205-99-2	LANL ECORISK	Surface Water No Effect ESL	Aquatic community organisms	0.009000	
205-99-2	LANL ECORISK	Surface Water Low Effect ESL	Aquatic community organisms	0.090000	
205-99-2	LANL ECORISK	Surface Water No Effect ESL	Montane shrew	17.000000	
205-99-2	LANL ECORISK	Surface Water No Effect ESL	Deer mouse	21.000000	
205-99-2	LANL ECORISK	Surface Water No Effect ESL	Occult little brown myotis bat	25.000000	
205-99-2	LANL ECORISK	Surface Water No Effect ESL	Mountain cottontail	41.000000	
205-99-2	LANL ECORISK	Surface Water No Effect ESL	Gray fox	46.000000	
205-99-2	LANL ECORISK	Surface Water Low Effect ESL	Montane shrew	170.000000	
205-99-2	LANL ECORISK	Surface Water Low Effect ESL	Deer mouse	210.000000	
205-99-2	LANL ECORISK	Surface Water Low Effect ESL	Occult little brown myotis bat	250.000000	
205-99-2	LANL ECORISK	Surface Water Low Effect ESL	Mountain cottontail	410.000000	
205-99-2	LANL ECORISK	Surface Water Low Effect ESL	Gray fox	460.000000	

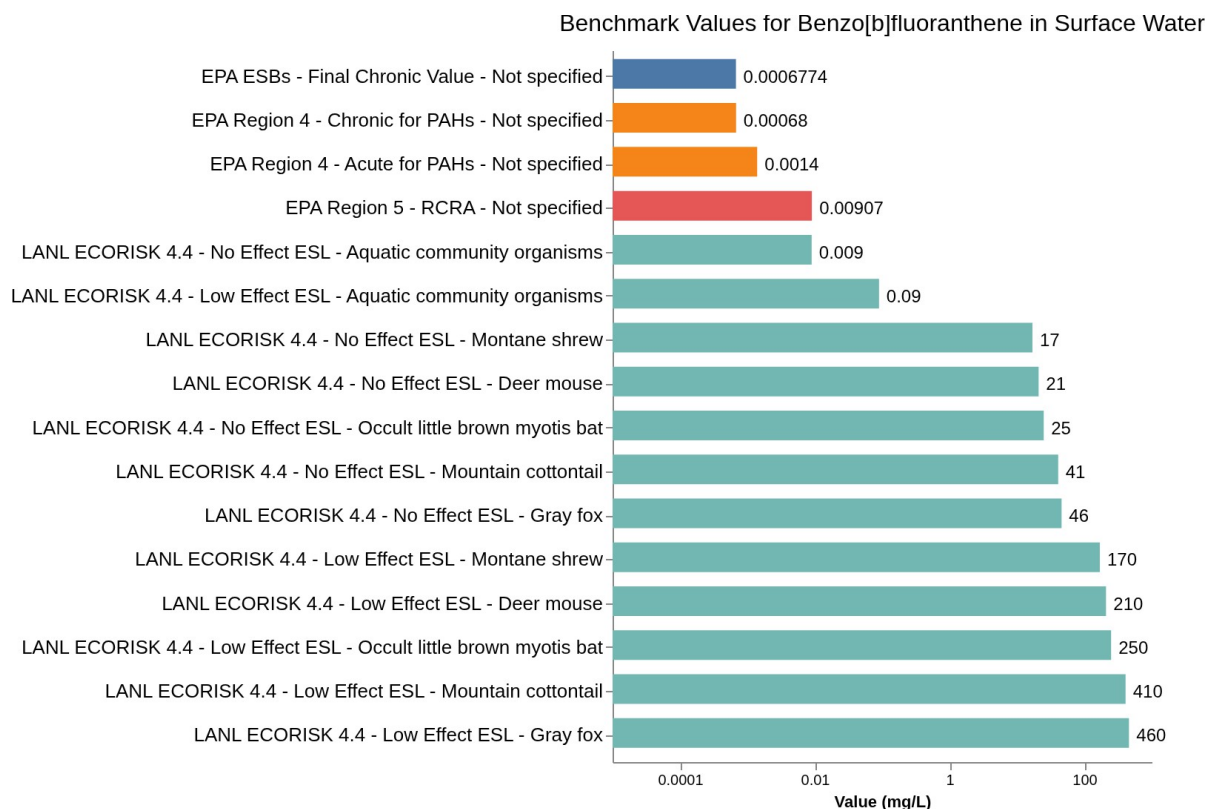


Table 55: Benchmark Values for Benzo[e]pyrene in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
192-97-2	EPA ESBs	Final Chronic Value	Not specified	0.000901	
192-97-2	EPA Region 4	Freshwater and Saltwater Chronic for PAHs	Not specified	0.000900	7
192-97-2	EPA Region 4	Freshwater and Saltwater Acute for PAHs	Not specified	0.001900	7

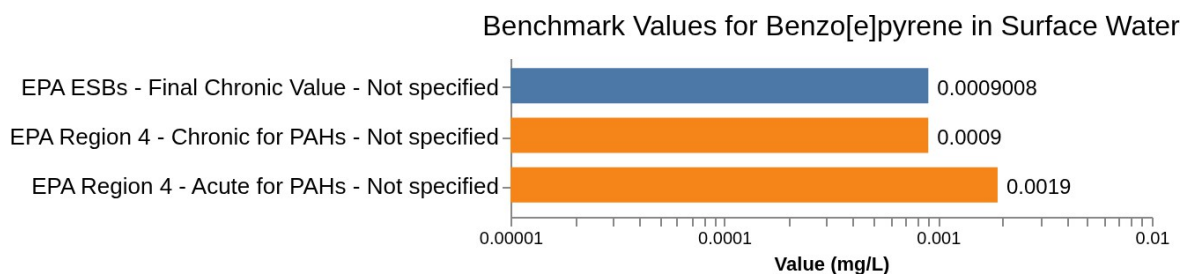


Table 56: Benchmark Values for Benzo[g,h,i]perylene in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
191-24-2	EPA ESBs	Final Chronic Value	Not specified	0.000439	
191-24-2	EPA Region 4	Freshwater and Saltwater Chronic for PAHs	Not specified	0.000440	7
191-24-2	EPA Region 4	Freshwater and Saltwater Acute for PAHs	Not specified	0.000910	7
191-24-2	EPA Region 5	EPA RCRA Surface Water	Not specified	0.007640	
191-24-2	LANL ECORISK	Surface Water No Effect ESL	Aquatic community organisms	0.007600	
191-24-2	LANL ECORISK	Surface Water Low Effect ESL	Aquatic community organisms	0.076000	
191-24-2	LANL ECORISK	Surface Water No Effect ESL	Montane shrew	32.000000	
191-24-2	LANL ECORISK	Surface Water No Effect ESL	Deer mouse	37.000000	
191-24-2	LANL ECORISK	Surface Water No Effect ESL	Occult little brown myotis bat	45.000000	
191-24-2	LANL ECORISK	Surface Water No Effect ESL	Mountain cottontail	74.000000	
191-24-2	LANL ECORISK	Surface Water No Effect ESL	Gray fox	83.000000	
191-24-2	LANL ECORISK	Surface Water Low Effect ESL	Montane shrew	320.000000	
191-24-2	LANL ECORISK	Surface Water Low Effect ESL	Deer mouse	370.000000	
191-24-2	LANL ECORISK	Surface Water Low Effect ESL	Occult little brown myotis bat	450.000000	
191-24-2	LANL ECORISK	Surface Water Low Effect ESL	Mountain cottontail	740.000000	
191-24-2	LANL ECORISK	Surface Water Low Effect ESL	Gray fox	830.000000	

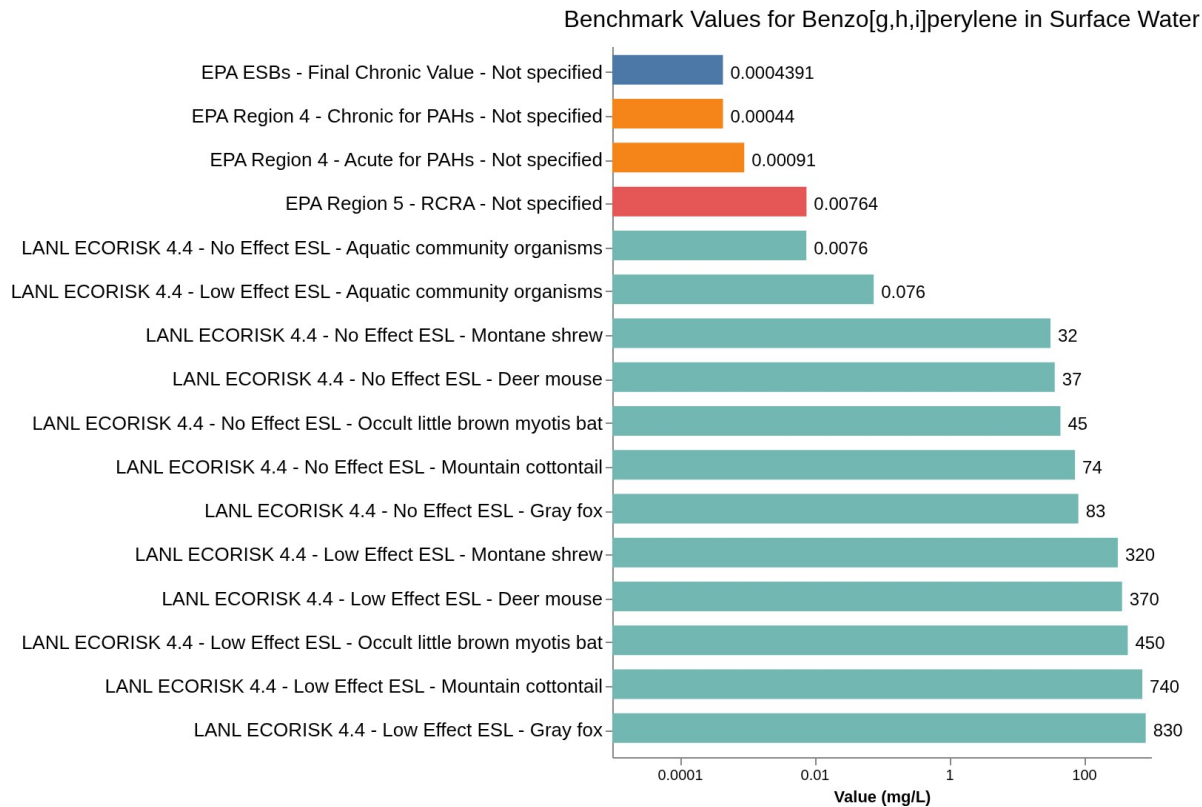


Table 57: Benchmark Values for Benzo[j]fluoranthene in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
205-82-3	EPA ESBs	Final Chronic Value	Not specified	0.000642

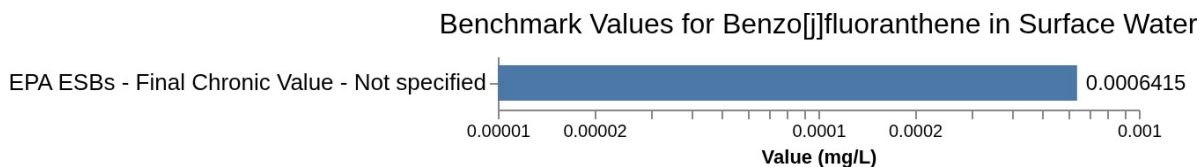


Table 58: Benchmark Values for Benzo[k]fluoranthene in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
207-08-9	EPA ESBs	Final Chronic Value	Not specified	0.000642	
207-08-9	EPA Region 4	Freshwater and Saltwater Chronic for PAHs	Not specified	0.000640	7
207-08-9	EPA Region 4	Freshwater and Saltwater Acute for PAHs	Not specified	0.001300	7
207-08-9	LANL ECORISK	Surface Water No Effect ESL	Aquatic community organisms	0.000004	
207-08-9	LANL ECORISK	Surface Water Low Effect ESL	Aquatic community organisms	0.000041	
207-08-9	LANL ECORISK	Surface Water No Effect ESL	Montane shrew	32.000000	
207-08-9	LANL ECORISK	Surface Water No Effect ESL	Deer mouse	37.000000	
207-08-9	LANL ECORISK	Surface Water No Effect ESL	Occult little brown myotis bat	45.000000	
207-08-9	LANL ECORISK	Surface Water No Effect ESL	Mountain cottontail	74.000000	
207-08-9	LANL ECORISK	Surface Water No Effect ESL	Gray fox	83.000000	
207-08-9	LANL ECORISK	Surface Water Low Effect ESL	Montane shrew	320.000000	
207-08-9	LANL ECORISK	Surface Water Low Effect ESL	Deer mouse	370.000000	
207-08-9	LANL ECORISK	Surface Water Low Effect ESL	Occult little brown myotis bat	450.000000	
207-08-9	LANL ECORISK	Surface Water Low Effect ESL	Mountain cottontail	740.000000	
207-08-9	LANL ECORISK	Surface Water Low Effect ESL	Gray fox	830.000000	

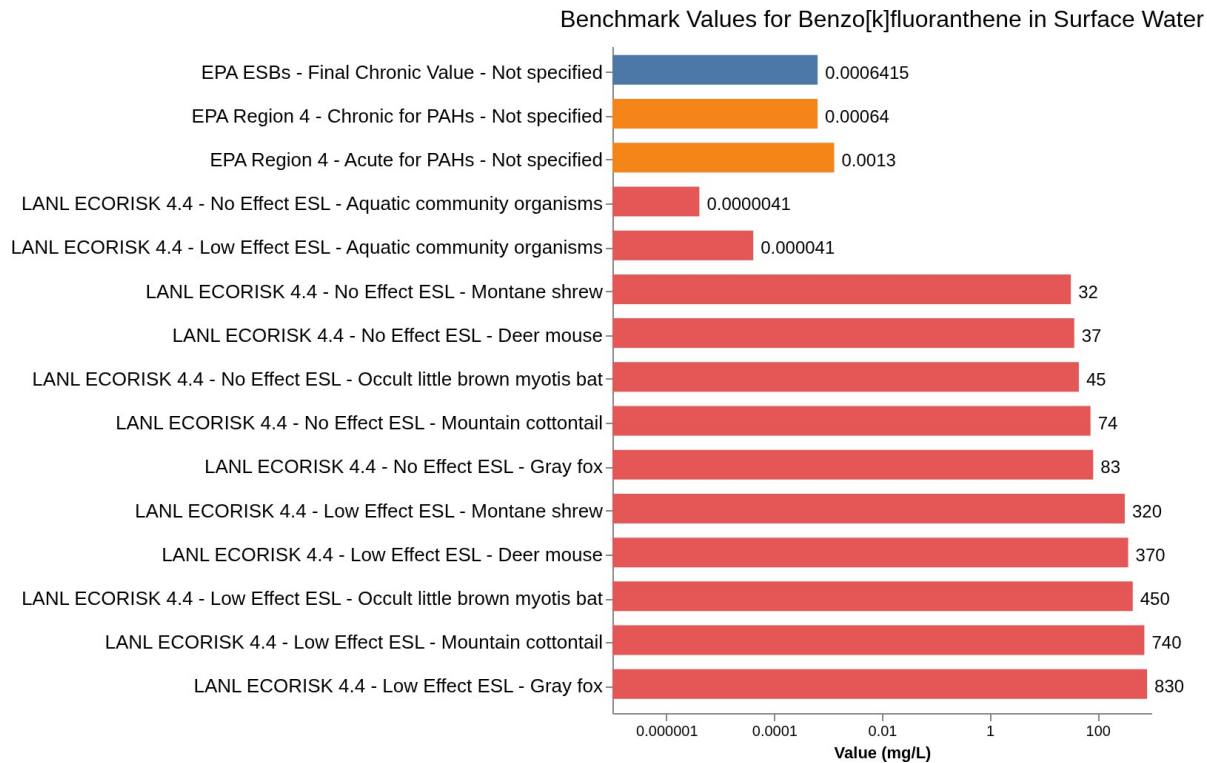


Table 59: Benchmark Values for Benzofluorene, 2,3- in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
243-17-4	EPA ESBs	Final Chronic Value	Not specified	0.002824

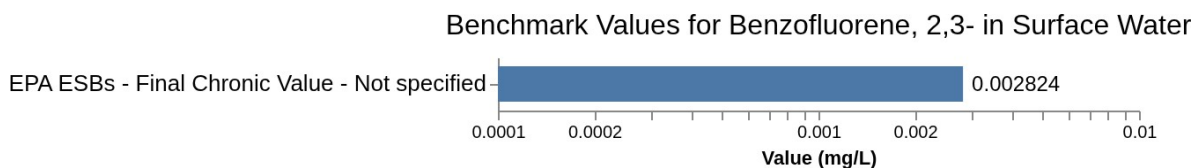


Table 60: Benchmark Values for Benzoic Acid in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
65-85-0	EPA Region 4	Freshwater and Saltwater Chronic Narcotic MOA	Not specified	4.392	
65-85-0	EPA Region 4	Freshwater and Saltwater Acute, Narcotic MOA	Not specified	16.818	
65-85-0	Illinois	Chronic – General Use	Not specified	1.400	195
65-85-0	Illinois	Acute – General Use	Not specified	18.000	195
65-85-0	LANL ECORISK	Surface Water No Effect ESL	Aquatic community organisms	0.042	
65-85-0	LANL ECORISK	Surface Water Low Effect ESL	Aquatic community organisms	0.420	
65-85-0	LANL ECORISK	Surface Water No Effect ESL	Montane shrew	17.000	
65-85-0	LANL ECORISK	Surface Water No Effect ESL	Deer mouse	21.000	
65-85-0	LANL ECORISK	Surface Water No Effect ESL	Occult little brown myotis bat	25.000	
65-85-0	LANL ECORISK	Surface Water No Effect ESL	Mountain cottontail	41.000	
65-85-0	LANL ECORISK	Surface Water No Effect ESL	Gray fox	46.000	
65-85-0	LANL ECORISK	Surface Water Low Effect ESL	Montane shrew	170.000	
65-85-0	LANL ECORISK	Surface Water Low Effect ESL	Deer mouse	210.000	
65-85-0	LANL ECORISK	Surface Water Low Effect ESL	Occult little brown myotis bat	250.000	
65-85-0	LANL ECORISK	Surface Water Low Effect ESL	Mountain cottontail	410.000	
65-85-0	LANL ECORISK	Surface Water Low Effect ESL	Gray fox	460.000	
65-85-0	ORNL	Tier II Secondary Chronic Value	Not specified	0.042	
65-85-0	ORNL	Tier II Secondary Acute Value	Not specified	0.740	
65-85-0	ORNL	EC25 Bass Population	Not specified	1.260	
65-85-0	ORNL	EC20 Fish	Not specified	7.410	29
65-85-0	ORNL	SW Lowest Chronic Value – All Organisms	Not specified	12.976	24
65-85-0	ORNL	SW Lowest Chronic Value – Fish	Not specified	13.000	24

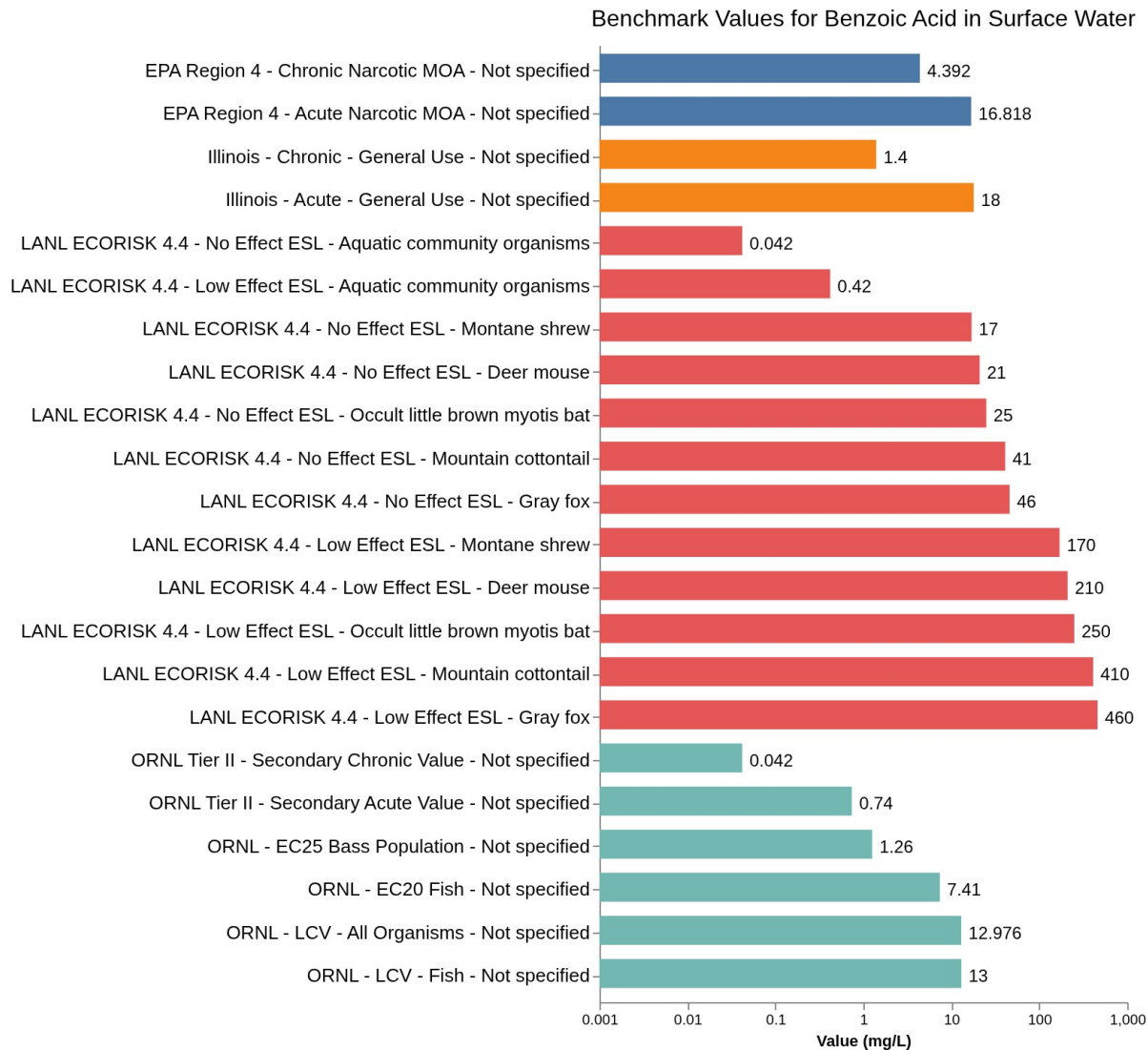


Table 61: Benchmark Values for Benzothiophene in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
11095-43-5	EPA Region 4	Freshwater and Saltwater Chronic for PAHs	Not specified	0.450
11095-43-5	EPA Region 4	Freshwater and Saltwater Acute for PAHs	Not specified	0.937

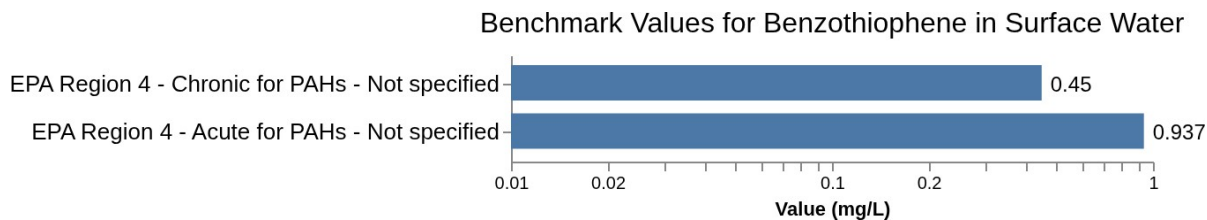


Table 62: Benchmark Values for Benzyl Alcohol in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
100-51-6	EPA Region 4	Freshwater and Saltwater Chronic Narcotic MOA	Not specified	15.5380	
100-51-6	EPA Region 4	Freshwater and Saltwater Acute, Narcotic MOA	Not specified	24.1560	
100-51-6	EPA Region 5	EPA RCRA Surface Water	Not specified	0.0086	
100-51-6	Florida	Freshwater and Marine Water Contaminant Cleanup	Not specified	0.5000	
100-51-6	Illinois	Chronic – General Use	Not specified	0.0800	
100-51-6	Illinois	Acute – General Use	Not specified	1.0000	
100-51-6	ORNL	Tier II Secondary Chronic Value	Not specified	0.0086	
100-51-6	ORNL	Tier II Secondary Acute Value	Not specified	0.1500	
100-51-6	ORNL	EC25 Bass Population	Not specified	0.3750	
100-51-6	ORNL	EC20 Fish	Not specified	0.5500	29
100-51-6	ORNL	SW Lowest Chronic Value – Fish	Not specified	0.5890	24
100-51-6	ORNL	SW Lowest Chronic Value – All Organisms	Not specified	0.5890	24

Benchmark Values for Benzyl Alcohol in Surface Water

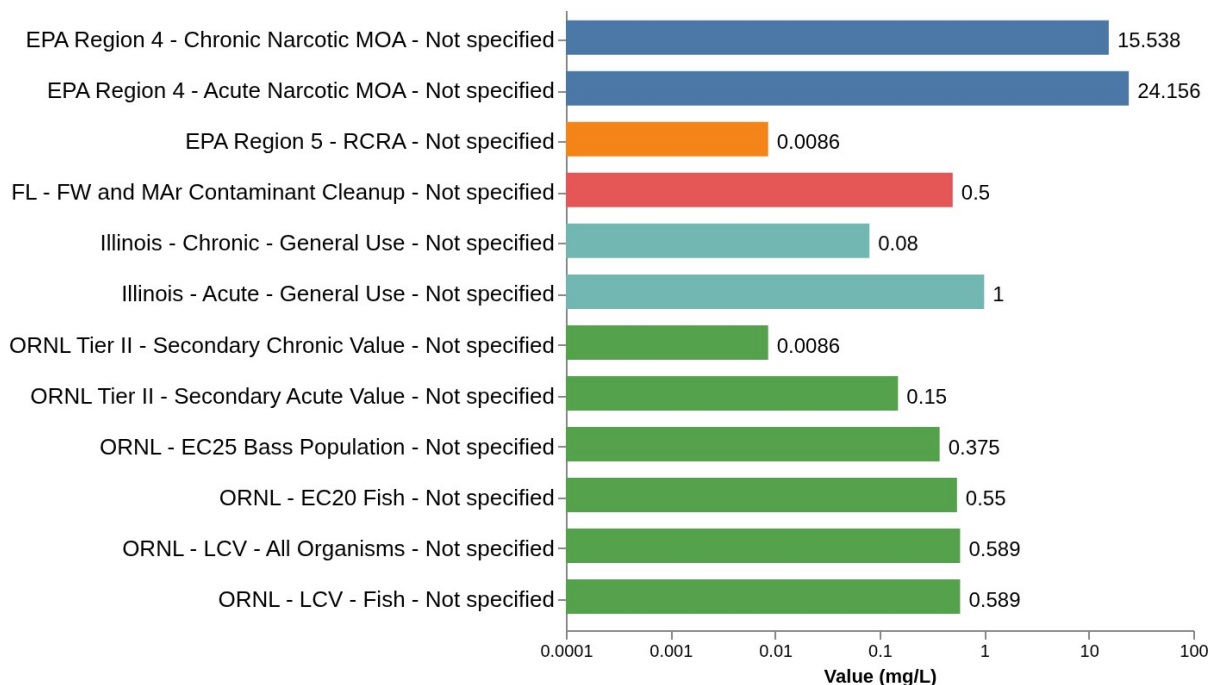


Table 63: Benchmark Values for Beryllium and compounds in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
7440-41-7	Canada	Water Irrigation	Not specified	0.10000	
7440-41-7	Canada	Water Livestock	Not specified	0.10000	
7440-41-7	EPA Region 5	EPA RCRA Surface Water	Not specified	0.00360	12
7440-41-7	Florida	SWQS for Shellfish Propagation or Harvesting	Not specified	0.00013	
7440-41-7	LANL ECORISK	Surface Water No Effect ESL	Aquatic community organisms	0.00066	
7440-41-7	LANL ECORISK	Surface Water Low Effect ESL	Aquatic community organisms	0.00660	
7440-41-7	LANL ECORISK	Surface Water No Effect ESL	Montane shrew	2.90000	
7440-41-7	LANL ECORISK	Surface Water No Effect ESL	Deer mouse	3.40000	
7440-41-7	LANL ECORISK	Surface Water No Effect ESL	Occult little brown myotis bat	4.10000	
7440-41-7	LANL ECORISK	Surface Water No Effect ESL	Mountain cottontail	6.80000	
7440-41-7	LANL ECORISK	Surface Water No Effect ESL	Gray fox	7.60000	
7440-41-7	LANL ECORISK	Surface Water Low Effect ESL	Montane shrew	29.00000	
7440-41-7	LANL ECORISK	Surface Water Low Effect ESL	Deer mouse	34.00000	
7440-41-7	LANL ECORISK	Surface Water Low Effect ESL	Occult little brown myotis bat	41.00000	
7440-41-7	LANL ECORISK	Surface Water Low Effect ESL	Mountain cottontail	68.00000	
7440-41-7	LANL ECORISK	Surface Water Low Effect ESL	Gray fox	76.00000	
7440-41-7	ORNL	Tier II Secondary Chronic Value	Not specified	0.00066	
7440-41-7	ORNL	EC20 Daphnids	Not specified	0.00380	
7440-41-7	ORNL	SW Lowest Chronic Value – All Organisms	Not specified	0.00530	
7440-41-7	ORNL	SW Lowest Chronic Value – Daphnids	Not specified	0.00530	
7440-41-7	ORNL	EC25 Bass Population	Not specified	0.02100	
7440-41-7	ORNL	Tier II Secondary Acute Value	Not specified	0.03500	
7440-41-7	ORNL	SW Lowest Chronic Value – Fish	Not specified	0.05700	24
7440-41-7	ORNL	EC20 Fish	Not specified	0.14800	29
7440-41-7	ORNL	SW Lowest Chronic Value – Aquatic Plants	Not specified	100.00000	

Benchmark Values for Beryllium and compounds in Surface Water

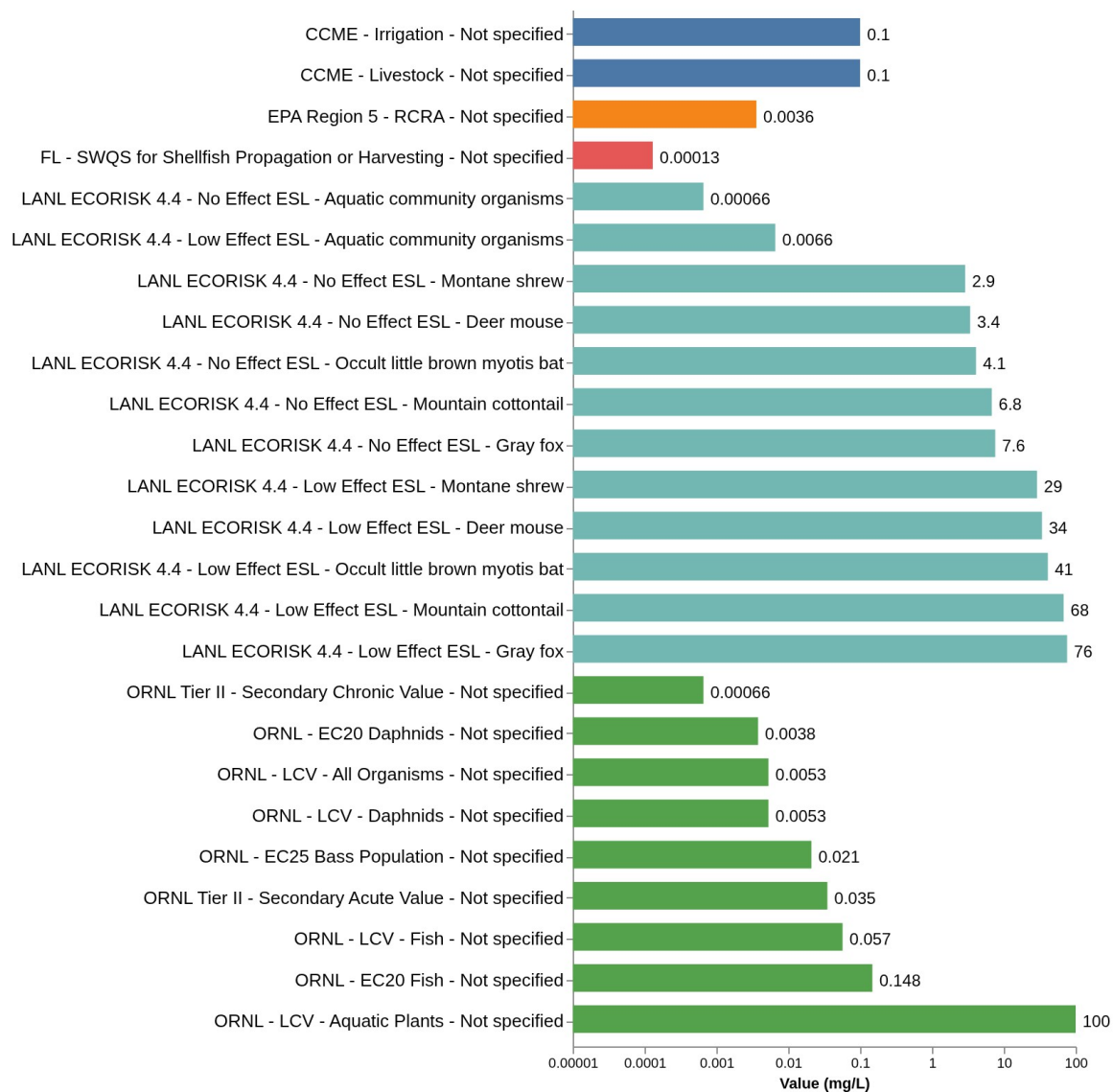


Table 64: Benchmark Values for Biphenyl, 1,1'– in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
92–52–4	EPA Region 4	Freshwater and Saltwater Chronic Narcotic MOA	Not specified	0.049
92–52–4	EPA Region 4	Freshwater and Saltwater Acute, Narcotic MOA	Not specified	0.202
92–52–4	Florida	Freshwater and Marine Water Contaminant Cleanup	Not specified	0.018
92–52–4	ORNL	Tier II Secondary Chronic Value	Not specified	0.014

Benchmark Values for Biphenyl, 1,1'– in Surface Water

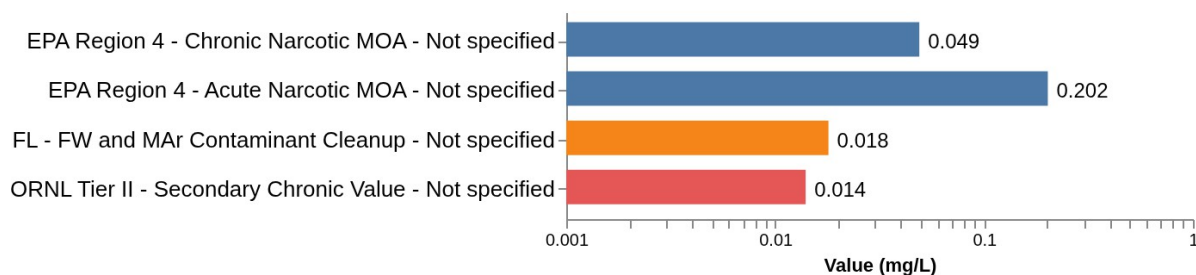


Table 65: Benchmark Values for Bis(2-chloroethyl)ether in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
111–44–4	EPA Region 5	EPA RCRA Surface Water	Not specified	1.9
111–44–4	Illinois	Chronic – General Use	Not specified	1.9
111–44–4	Illinois	Acute – General Use	Not specified	24.0

Benchmark Values for Bis(2-chloroethyl)ether in Surface Water

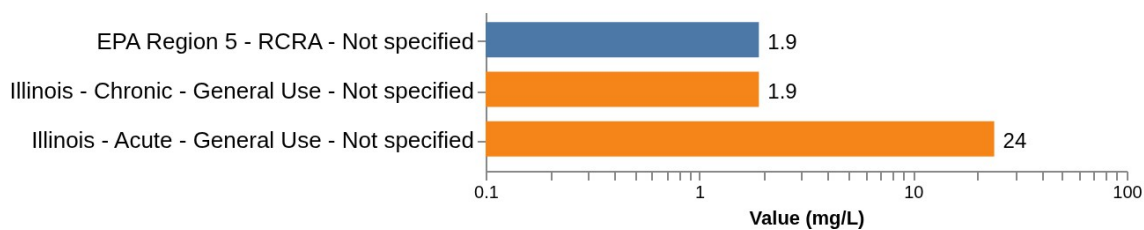


Table 66: Benchmark Values for Bis(2-ethylhexyl)phthalate in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
117-81-7	EPA Region 5	EPA RCRA Surface Water	Not specified	0.0003	
117-81-7	Illinois	Chronic – Lake Michigan	Not specified	0.0170	
117-81-7	Illinois	Acute – Lake Michigan	Not specified	0.0760	
117-81-7	Illinois	Chronic – General Use	Not specified	0.3800	195
117-81-7	Illinois	Acute – General Use	Not specified	0.4000	195
117-81-7	LANL ECORISK	Surface Water No Effect ESL	Aquatic community organisms	0.0320	
117-81-7	LANL ECORISK	Surface Water Low Effect ESL	Aquatic community organisms	0.3200	
117-81-7	LANL ECORISK	Surface Water No Effect ESL	Violet-green swallow	4.5000	
117-81-7	LANL ECORISK	Surface Water No Effect ESL	American robin	7.8000	
117-81-7	LANL ECORISK	Surface Water No Effect ESL	American kestrel	9.1000	
117-81-7	LANL ECORISK	Surface Water Low Effect ESL	Violet-green swallow	45.0000	
117-81-7	LANL ECORISK	Surface Water Low Effect ESL	American robin	78.0000	
117-81-7	LANL ECORISK	Surface Water No Effect ESL	Montane shrew	82.0000	
117-81-7	LANL ECORISK	Surface Water Low Effect ESL	American kestrel	91.0000	
117-81-7	LANL ECORISK	Surface Water No Effect ESL	Deer mouse	96.0000	
117-81-7	LANL ECORISK	Surface Water No Effect ESL	Occult little brown myotis bat	110.0000	
117-81-7	LANL ECORISK	Surface Water No Effect ESL	Mountain cottontail	180.0000	
117-81-7	LANL ECORISK	Surface Water No Effect ESL	Gray fox	210.0000	
117-81-7	LANL ECORISK	Surface Water Low Effect ESL	Montane shrew	820.0000	
117-81-7	LANL ECORISK	Surface Water Low Effect ESL	Deer mouse	960.0000	
117-81-7	LANL ECORISK	Surface Water Low Effect ESL	Occult little brown myotis bat	1100.0000	
117-81-7	LANL ECORISK	Surface Water Low Effect ESL	Mountain cottontail	1800.0000	
117-81-7	LANL ECORISK	Surface Water Low Effect ESL	Gray fox	2100.0000	
117-81-7	ORNL	EC20 Daphnids	Not specified	0.0030	23
117-81-7	ORNL	Tier II Secondary Chronic Value	Not specified	0.0030	

Benchmark Values for Bis(2-ethylhexyl)phthalate in Surface Water

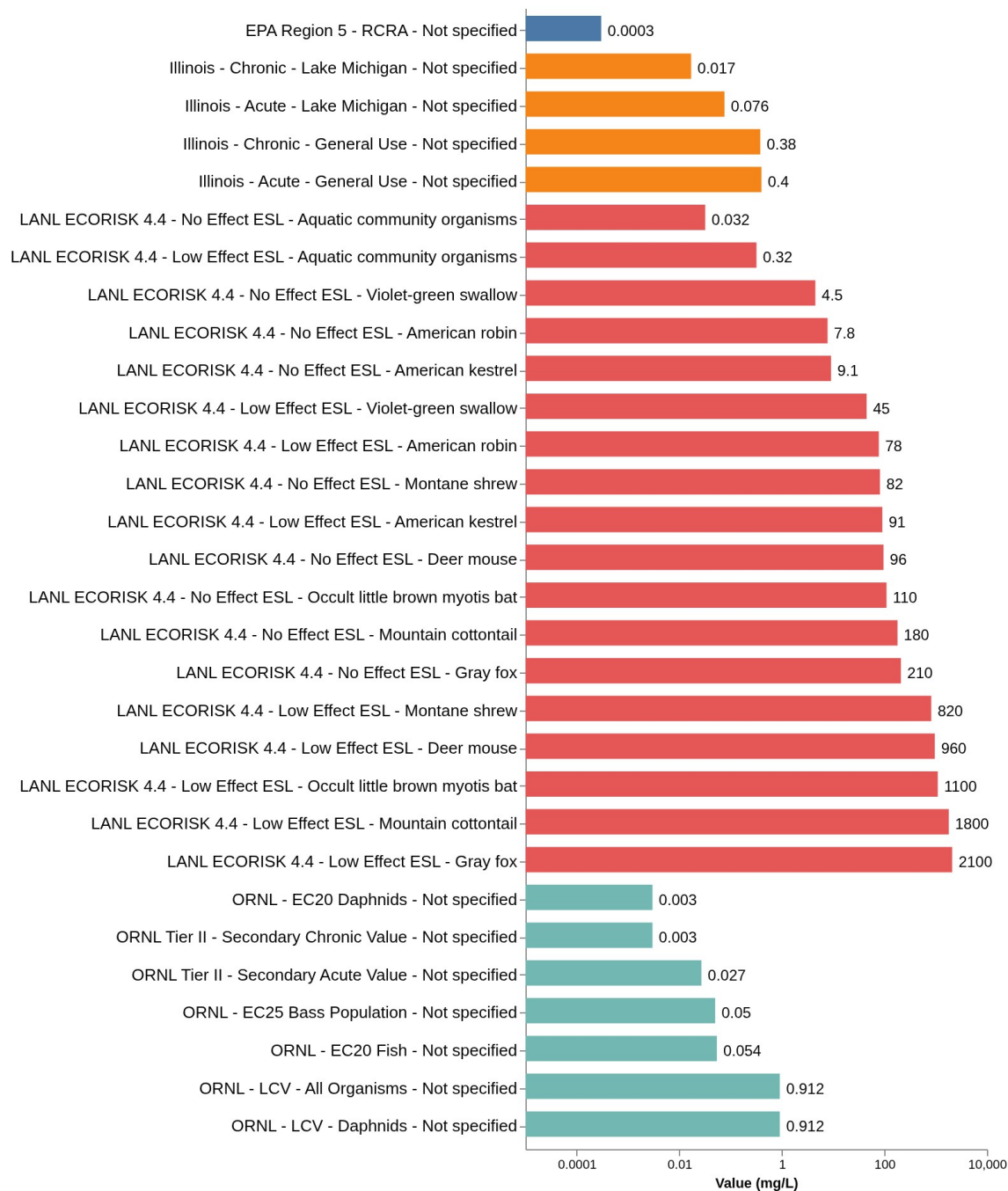


Table 67: Benchmark Values for Bisphenol A in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
80-05-7	Florida	Freshwater and Marine Water Contaminant Cleanup	Not specified	0.055
80-05-7	Illinois	Chronic – General Use	Not specified	0.037
80-05-7	Illinois	Acute – General Use	Not specified	0.470

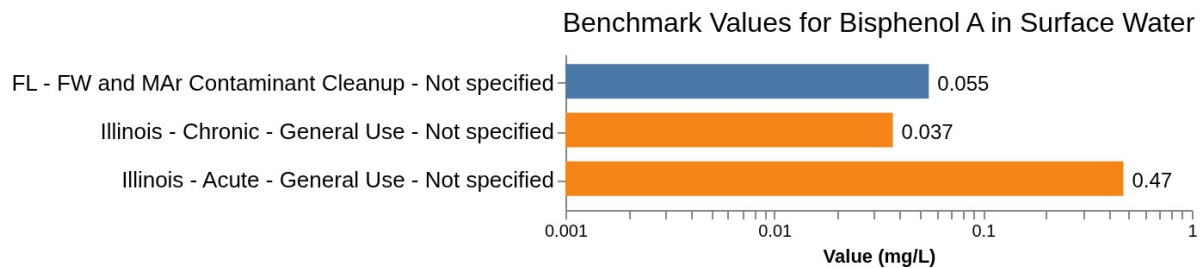


Table 68: Benchmark Values for Boron And Borates Only in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
7440-42-8	British Columbia	Irrigation LTC	Not specified	2	141
7440-42-8	British Columbia	Livestock LTC	Not specified	5	
7440-42-8	British Columbia	LTC	Not specified	5	
7440-42-8	Canada	Water Livestock	Not specified	5	
7440-42-8	Canada	Water Irrigation	Not specified		46
7440-42-8	LANL ECORISK	Surface Water No Effect ESL	Aquatic community organisms	0.0016	
7440-42-8	LANL ECORISK	Surface Water Low Effect ESL	Aquatic community organisms	0.016	
7440-42-8	LANL ECORISK	Surface Water No Effect ESL	Montane shrew	120	
7440-42-8	LANL ECORISK	Surface Water No Effect ESL	Deer mouse	140	
7440-42-8	LANL ECORISK	Surface Water No Effect ESL	Occult little brown myotis bat	170	
7440-42-8	LANL ECORISK	Surface Water No Effect ESL	Violet-green swallow	220	
7440-42-8	LANL ECORISK	Surface Water No Effect ESL	Mountain cottontail	280	
7440-42-8	LANL ECORISK	Surface Water No Effect ESL	Gray fox	320	
7440-42-8	LANL ECORISK	Surface Water No Effect ESL	American robin	380	
7440-42-8	LANL ECORISK	Surface Water No Effect ESL	American kestrel	440	
7440-42-8	LANL ECORISK	Surface Water Low Effect ESL	Violet-green swallow	770	
7440-42-8	LANL ECORISK	Surface Water Low Effect ESL	Montane shrew	1200	
7440-42-8	LANL ECORISK	Surface Water Low Effect ESL	American robin	1300	
7440-42-8	LANL ECORISK	Surface Water Low Effect ESL	Deer mouse	1400	
7440-42-8	LANL ECORISK	Surface Water Low Effect ESL	American kestrel	1500	
7440-42-8	LANL ECORISK	Surface Water Low Effect ESL	Occult little brown myotis bat	1700	
7440-42-8	LANL ECORISK	Surface Water Low Effect ESL	Mountain cottontail	2800	
7440-42-8	LANL ECORISK	Surface Water Low Effect ESL	Gray fox	3200	
7440-42-8	ORNL	Tier II Secondary Chronic Value	Not specified	0.0016	
7440-42-8	ORNL	EC20 Daphnids	Not specified	0.007	
7440-42-8	ORNL	Tier II Secondary Acute Value	Not specified	0.03	
7440-42-8	ORNL	SW Lowest Chronic Value – Daphnids	Not specified	8.83	
7440-42-8	ORNL	SW Lowest Chronic Value – All Organisms	Not specified	8.83	

Benchmark Values for Boron And Borates Only in Surface Water

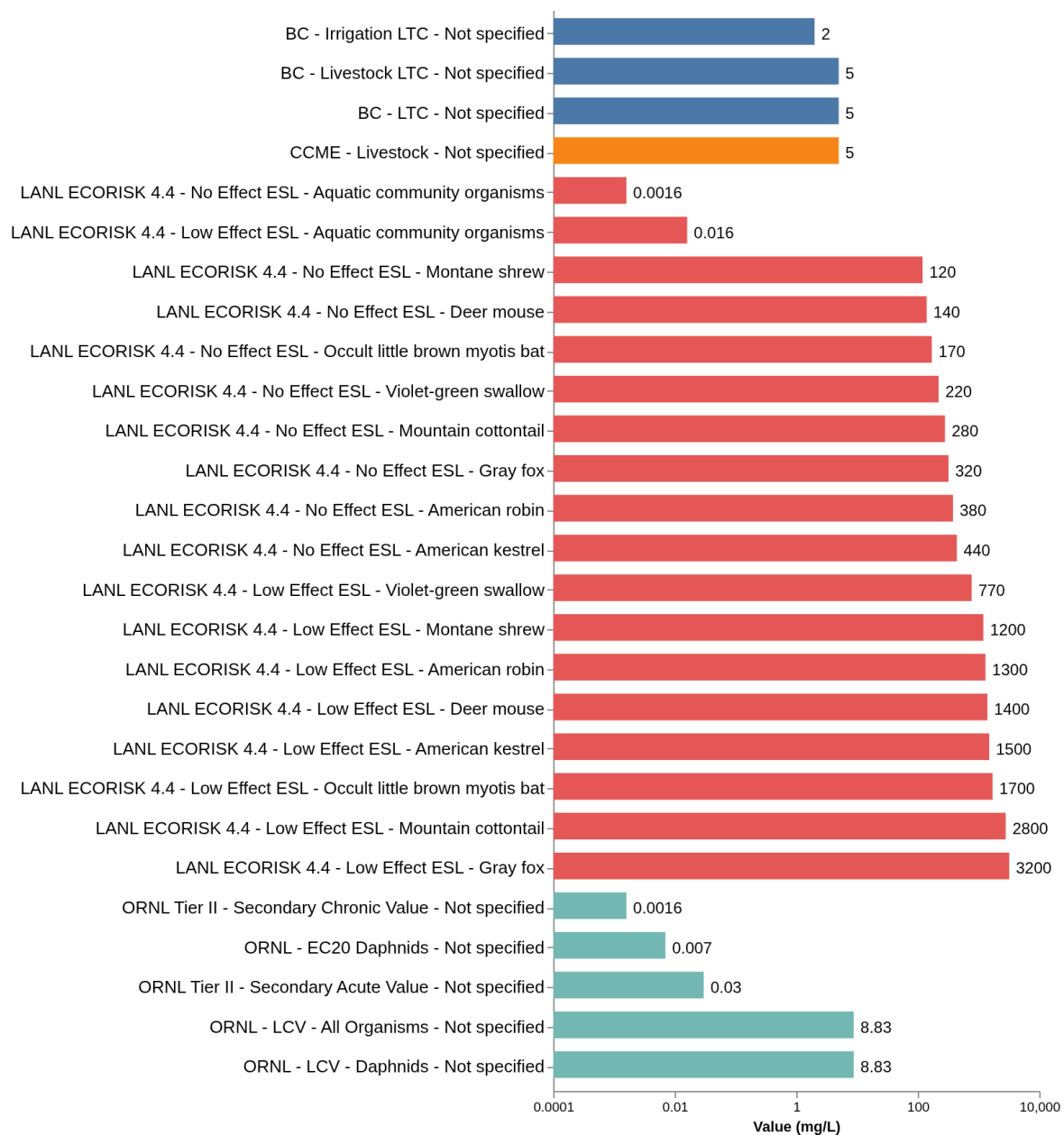


Table 69: Benchmark Values for Bromacil in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
314-40-9	Canada	Water Irrigation	Not specified	0.0002	
314-40-9	Canada	Water Livestock	Not specified	1.1000	
314-40-9	Florida	Freshwater and Marine Water Contaminant Cleanup	Not specified	0.0970	
314-40-9	Illinois	Chronic – General Use	Not specified	1.0000	195
314-40-9	Illinois	Acute – General Use	Not specified	18.0000	195

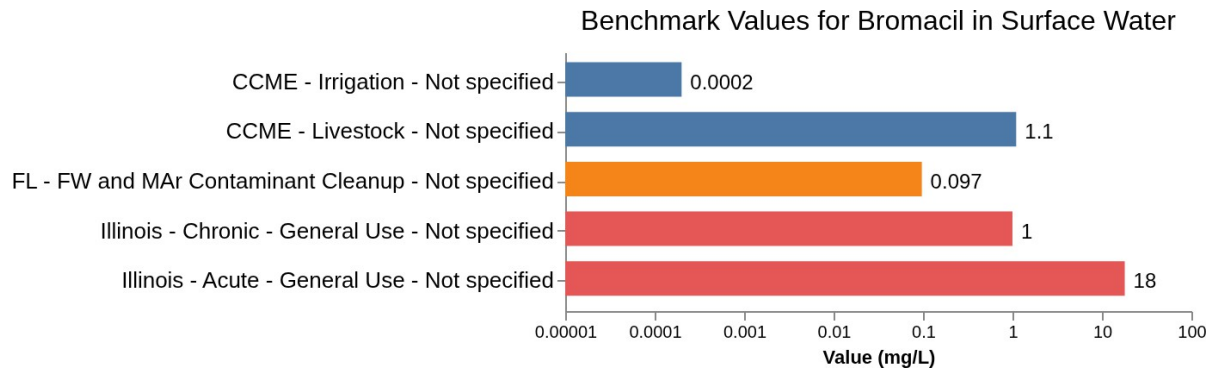


Table 70: Benchmark Values for Bromate in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
15541-45-4	Florida	SWQS for Shellfish Propagation or Harvesting	Not specified	100

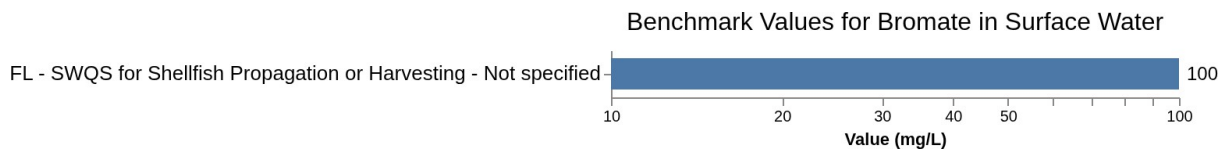


Table 71: Benchmark Values for Bromine in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
7726-95-6	Florida	SWQS for Shellfish Propagation or Harvesting	Not specified	0.1

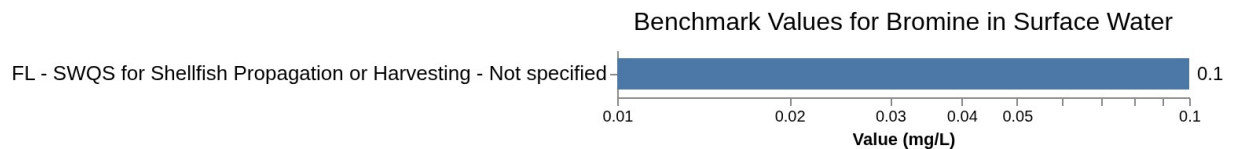


Table 72: Benchmark Values for Bromodichloromethane in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
75-27-4	Canada	Water Livestock	Not specified	0.100	
75-27-4	Florida	SWQS for Shellfish Propagation or Harvesting	Not specified	0.022	
75-27-4	Illinois	Chronic – General Use	Not specified	0.001	195
75-27-4	Illinois	Acute – General Use	Not specified	0.010	195

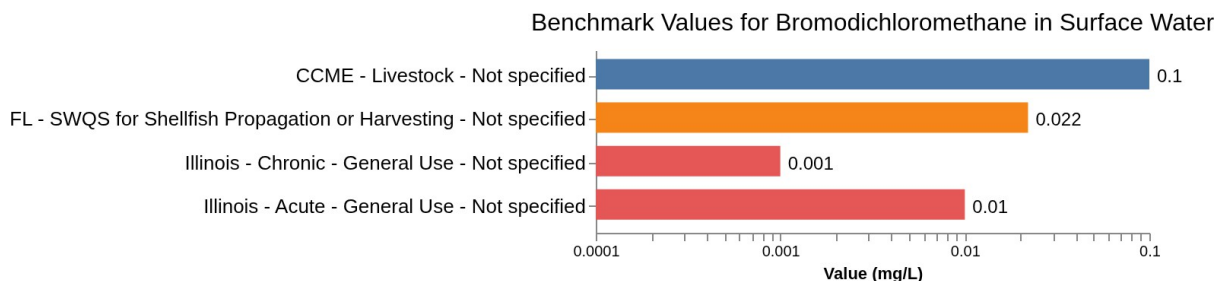


Table 73: Benchmark Values for Bromodiphenyl Ether, p- in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
101-55-3	EPA Region 4	Freshwater and Saltwater Chronic Narcotic MOA	Not specified	0.0020
101-55-3	EPA Region 4	Freshwater and Saltwater Acute, Narcotic MOA	Not specified	0.0117
101-55-3	EPA Region 5	EPA RCRA Surface Water	Not specified	0.0015
101-55-3	Illinois	Chronic – General Use	Not specified	0.0029
101-55-3	Illinois	Acute – General Use	Not specified	0.0360
101-55-3	ORNL	Tier II Secondary Chronic Value	Not specified	0.0015

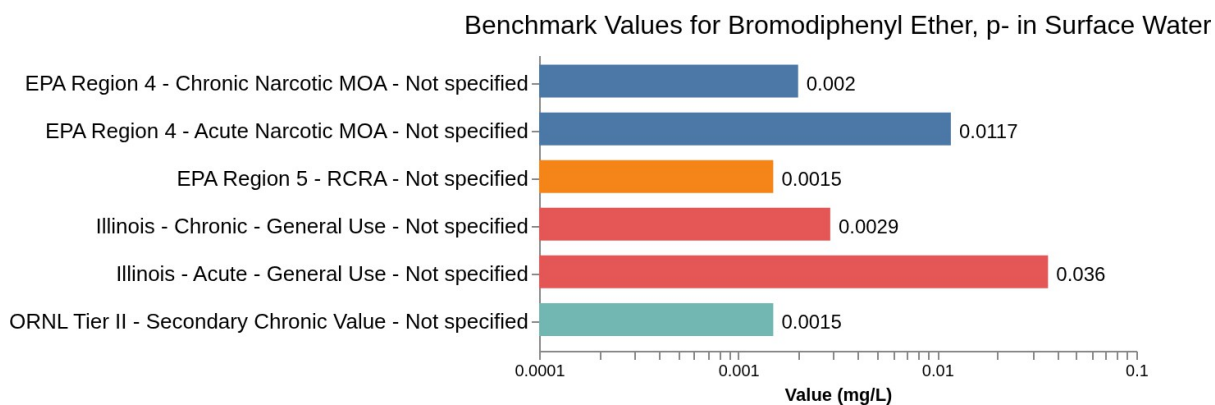


Table 74: Benchmark Values for Bromoform in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
75-25-2	Canada	Water Livestock	Not specified	0.10
75-25-2	EPA Region 5	EPA RCRA Surface Water	Not specified	0.23
75-25-2	Florida	SWQS for Shellfish Propagation or Harvesting	Not specified	0.36
75-25-2	ORNL	Tier II Secondary Chronic Value	Not specified	0.32
75-25-2	ORNL	Tier II Secondary Acute Value	Not specified	2.30

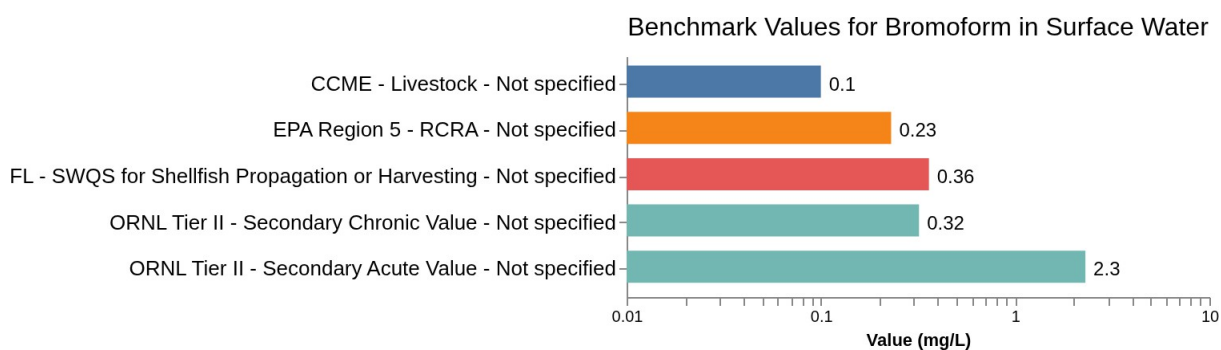


Table 75: Benchmark Values for Bromomethane in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
74-83-9	EPA Region 5	EPA RCRA Surface Water	Not specified	0.016
74-83-9	Florida	Freshwater and Marine Water Contaminant Cleanup	Not specified	0.035

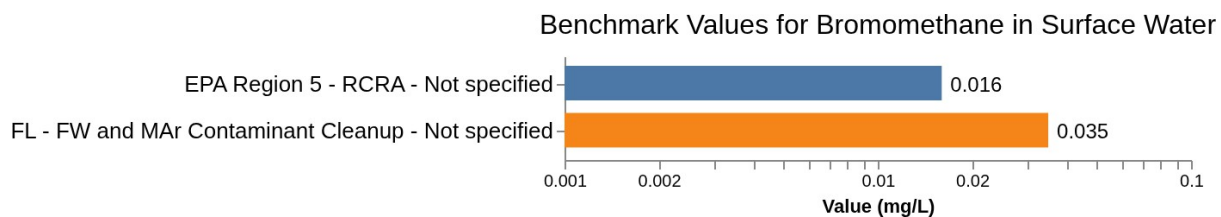


Table 76: Benchmark Values for Bromoxynil in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
1689-84-5	Canada	Water Irrigation	Not specified	0.00033
1689-84-5	Canada	Water Livestock	Not specified	0.01100

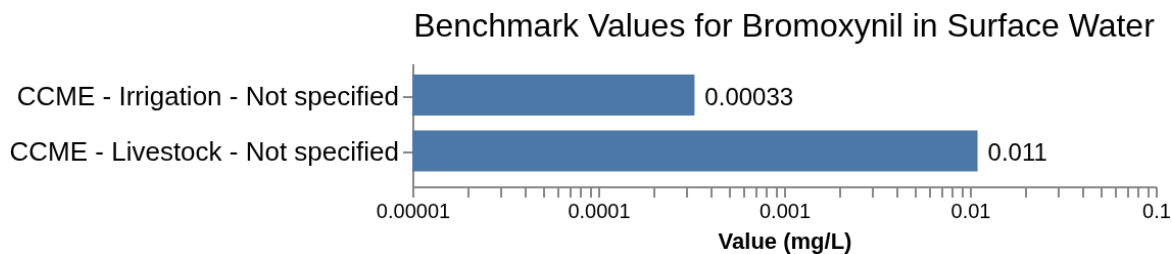


Table 77: Benchmark Values for Butanol, N- in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
71-36-3	Florida	Freshwater and Marine Water Contaminant Cleanup	Not specified	25

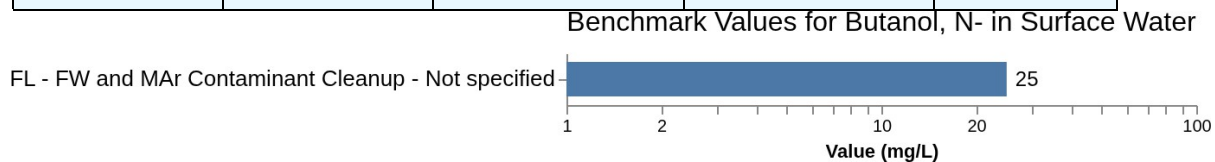


Table 78: Benchmark Values for Butyl Benzyl Phthalate in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
85-68-7	EPA Region 4	Freshwater and Saltwater Chronic Narcotic MOA	Not specified	0.018
85-68-7	EPA Region 4	Freshwater and Saltwater Acute, Narcotic MOA	Not specified	0.038
85-68-7	EPA Region 5	EPA RCRA Surface Water	Not specified	0.023
85-68-7	Florida	Freshwater and Marine Water Contaminant Cleanup	Not specified	0.026
85-68-7	Illinois	Chronic – General Use	Not specified	0.023
85-68-7	Illinois	Acute – General Use	Not specified	0.170
85-68-7	LANL ECORISK	Surface Water No Effect ESL	Aquatic community organisms	0.019
85-68-7	LANL ECORISK	Surface Water Low Effect ESL	Aquatic community organisms	0.190
85-68-7	LANL ECORISK	Surface Water No Effect ESL	Montane shrew	710.000
85-68-7	LANL ECORISK	Surface Water No Effect ESL	Deer mouse	830.000
85-68-7	LANL ECORISK	Surface Water No Effect ESL	Occult little brown myotis bat	1000.000
85-68-7	LANL ECORISK	Surface Water No Effect ESL	Mountain cottontail	1600.000
85-68-7	LANL ECORISK	Surface Water No Effect ESL	Gray fox	1800.000
85-68-7	LANL ECORISK	Surface Water Low Effect ESL	Montane shrew	7100.000
85-68-7	LANL ECORISK	Surface Water Low Effect ESL	Deer mouse	8300.000
85-68-7	LANL ECORISK	Surface Water Low Effect ESL	Occult little brown myotis bat	10000.000
85-68-7	LANL ECORISK	Surface Water Low Effect ESL	Mountain cottontail	16000.000
85-68-7	LANL ECORISK	Surface Water Low Effect ESL	Gray fox	18000.000
85-68-7	ORNL	Tier II Secondary Chronic Value	Not specified	0.019

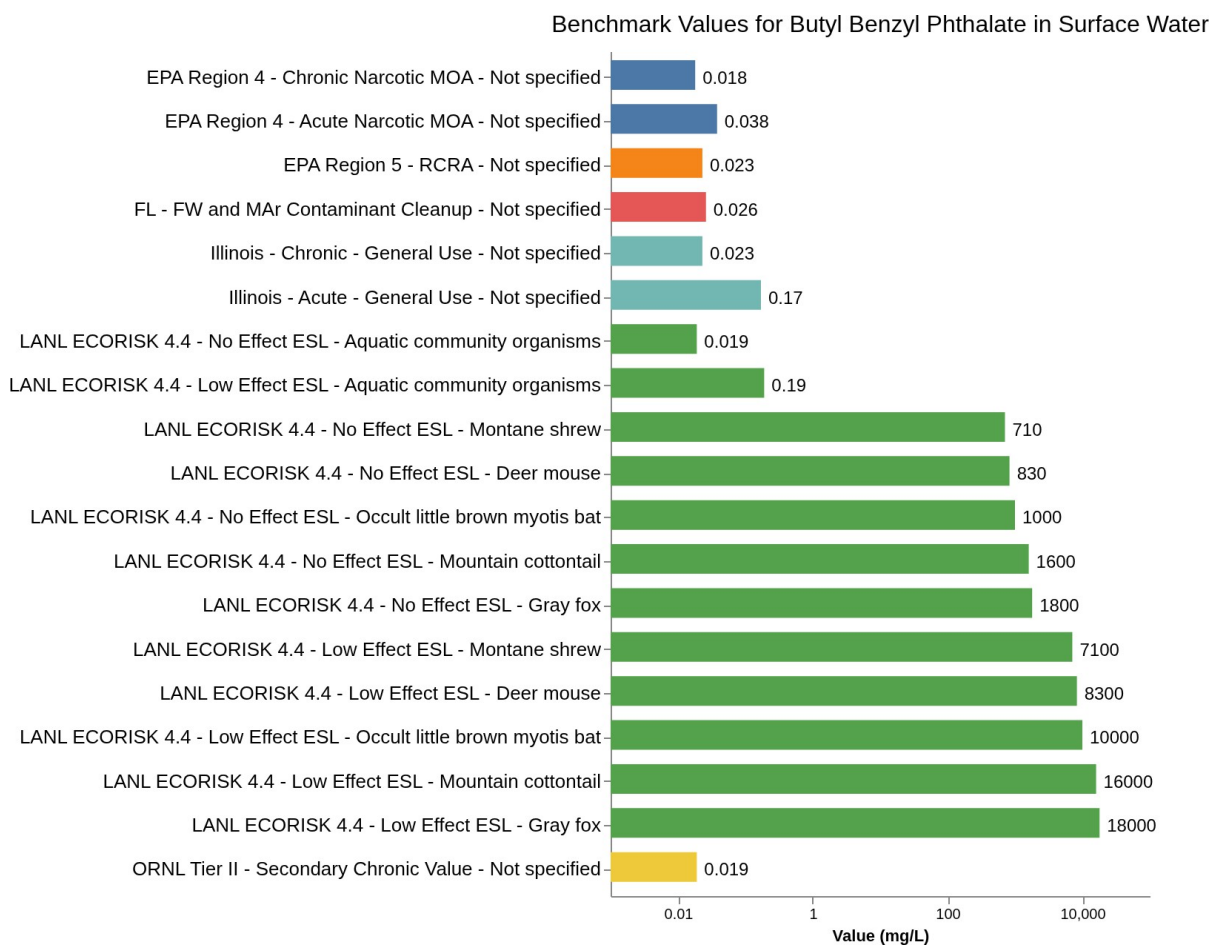


Table 79: Benchmark Values for Butyl Formate, tert- in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
762-75-4	Illinois	Chronic – General Use	Not specified	0.0077	195
762-75-4	Illinois	Acute – General Use	Not specified	0.0960	195

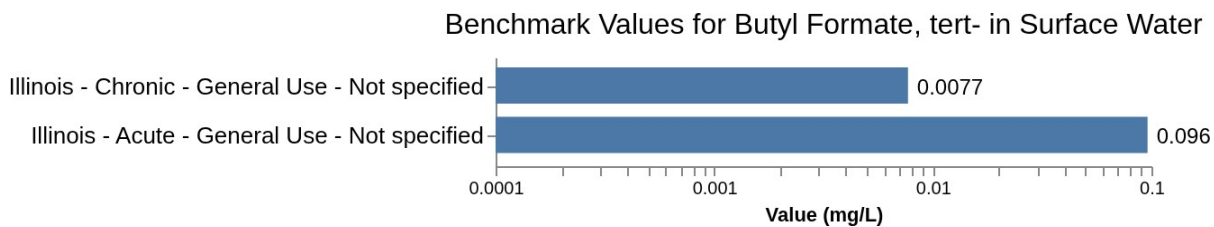


Table 80: Benchmark Values for Butylacetate in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
123-86-4	Florida	Freshwater and Marine Water Contaminant Cleanup	Not specified	1

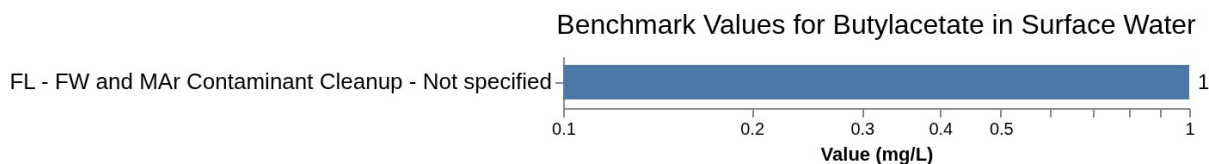


Table 81: Benchmark Values for Butylate in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
2008-41-5	Florida	Freshwater and Marine Water Contaminant Cleanup	Not specified	0.011	
2008-41-5	Illinois	Chronic – General Use	Not specified	0.050	195
2008-41-5	Illinois	Acute – General Use	Not specified	0.550	195

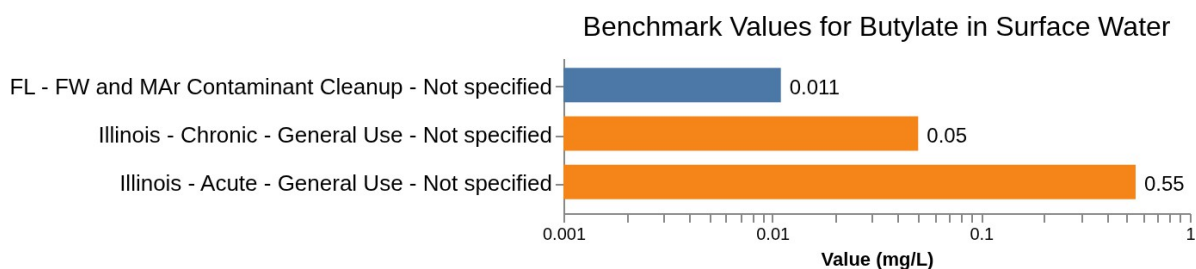


Table 82: Benchmark Values for Butylbenzene, n- in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
104-51-8	Illinois	Chronic – General Use	Not specified	0.0031	195
104-51-8	Illinois	Acute – General Use	Not specified	0.0390	195

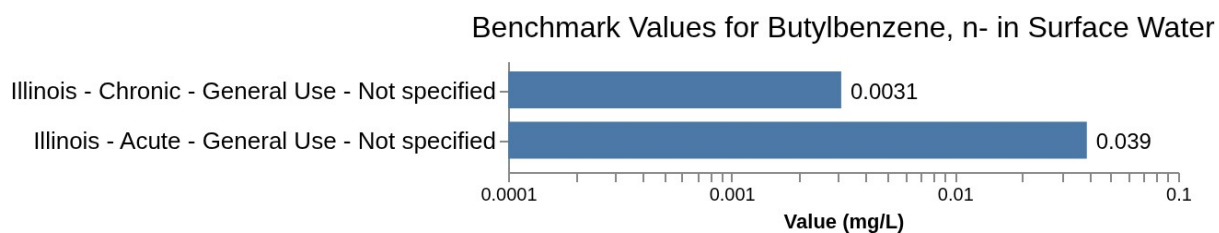


Table 83: Benchmark Values for Butylbenzene, sec- in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
135-98-8	Illinois	Chronic – General Use	Not specified	0.0066	195
135-98-8	Illinois	Acute – General Use	Not specified	0.0820	195

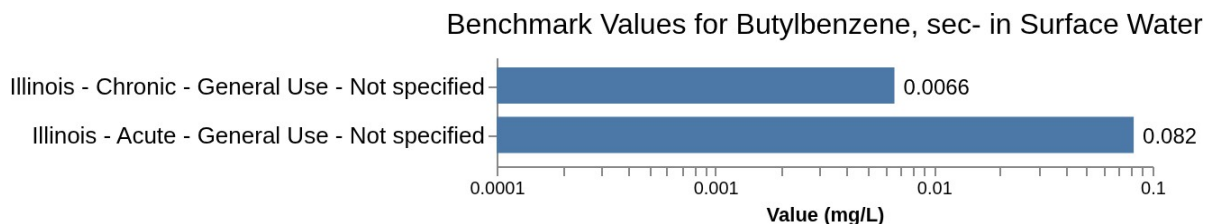


Table 84: Benchmark Values for Butylphenol, t- in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
98-54-4	Illinois	Chronic – General Use	Not specified	0.031
98-54-4	Illinois	Acute – General Use	Not specified	0.390

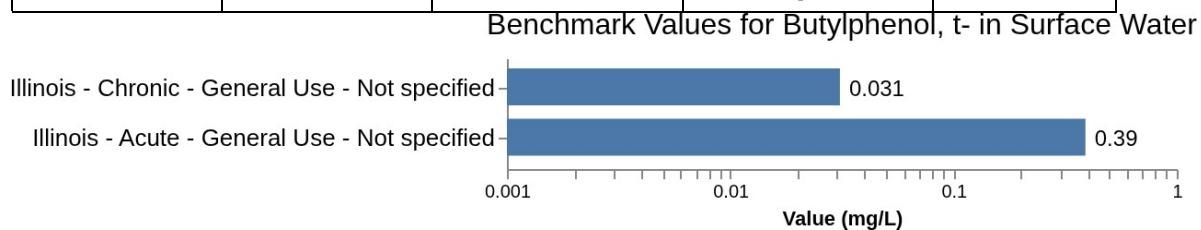


Table 85: Benchmark Values for Butyraldehyde in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
123-72-8	Illinois	Chronic – General Use	Not specified	0.14
123-72-8	Illinois	Acute – General Use	Not specified	1.80

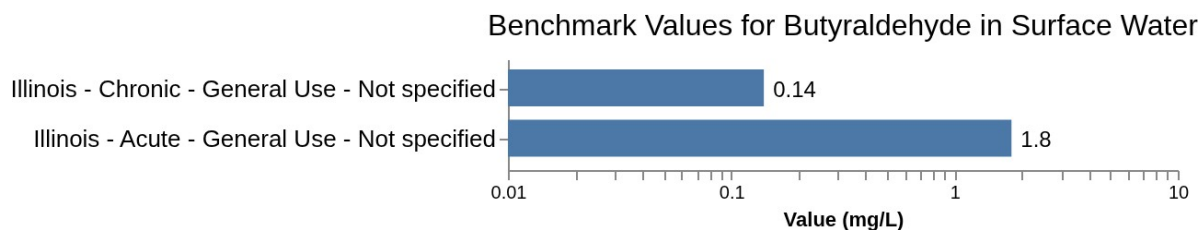


Table 86: Benchmark Values for Cadmium (Diet) in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
7440-43-9	Canada	Water Irrigation	Not specified	0.005100	
7440-43-9	Canada	Water Livestock	Not specified	0.080000	
7440-43-9	EPA Region 5	EPA RCRA Surface Water	Not specified	0.000150	12
7440-43-9	Florida	SWQS for Shellfish Propagation or Harvesting	Not specified	0.008800	
7440-43-9	LANL ECORISK	Surface Water No Effect ESL	Aquatic community organisms	0.000280	
7440-43-9	LANL ECORISK	Surface Water Low Effect ESL	Aquatic community organisms	0.000910	
7440-43-9	LANL ECORISK	Surface Water No Effect ESL	Montane shrew	4.800000	
7440-43-9	LANL ECORISK	Surface Water No Effect ESL	Deer mouse	5.600000	
7440-43-9	LANL ECORISK	Surface Water No Effect ESL	Violet-green swallow	5.900000	
7440-43-9	LANL ECORISK	Surface Water No Effect ESL	Occult little brown myotis bat	6.700000	
7440-43-9	LANL ECORISK	Surface Water No Effect ESL	American robin	10.000000	
7440-43-9	LANL ECORISK	Surface Water No Effect ESL	Mountain cottontail	11.000000	
7440-43-9	LANL ECORISK	Surface Water No Effect ESL	American kestrel	12.000000	
7440-43-9	LANL ECORISK	Surface Water No Effect ESL	Gray fox	12.000000	
7440-43-9	LANL ECORISK	Surface Water Low Effect ESL	Montane shrew	17.000000	
7440-43-9	LANL ECORISK	Surface Water Low Effect ESL	Deer mouse	20.000000	
7440-43-9	LANL ECORISK	Surface Water Low Effect ESL	Occult little brown myotis bat	24.000000	
7440-43-9	LANL ECORISK	Surface Water Low Effect ESL	Mountain cottontail	40.000000	
7440-43-9	LANL ECORISK	Surface Water Low Effect ESL	Gray fox	45.000000	
7440-43-9	LANL ECORISK	Surface Water Low Effect ESL	Violet-green swallow	82.000000	
7440-43-9	LANL ECORISK	Surface Water Low Effect ESL	American robin	140.000000	
7440-43-9	LANL ECORISK	Surface Water Low Effect ESL	American kestrel	160.000000	
7440-43-9	ORNL	EC20 Sensitive Species	Not specified	0.000013	30
7440-43-9	ORNL	SW Lowest Chronic Value – Daphnids	Not specified	0.000150	
7440-43-9	ORNL	SW Lowest Chronic Value – All Organisms	Not specified	0.000150	
7440-43-9	ORNL	EC20 Daphnids	Not specified	0.000750	
7440-43-9	ORNL	SW Lowest Chronic Value – Fish	Not specified	0.001700	
7440-43-9	ORNL	EC20 Fish	Not specified	0.001800	
7440-43-9	ORNL	SW Lowest Chronic Value – Aquatic Plants	Not specified	0.002000	
7440-43-9	ORNL	EC25 Bass Population	Not specified	0.004300	
7440-43-9	Ohio	OMZA	Not specified	0.002200	178, 190
7440-43-9	Ohio	OMZM	Not specified	0.004300	178, 190
7440-43-9	Ohio	IMZM	Not specified	0.008500	178, 190

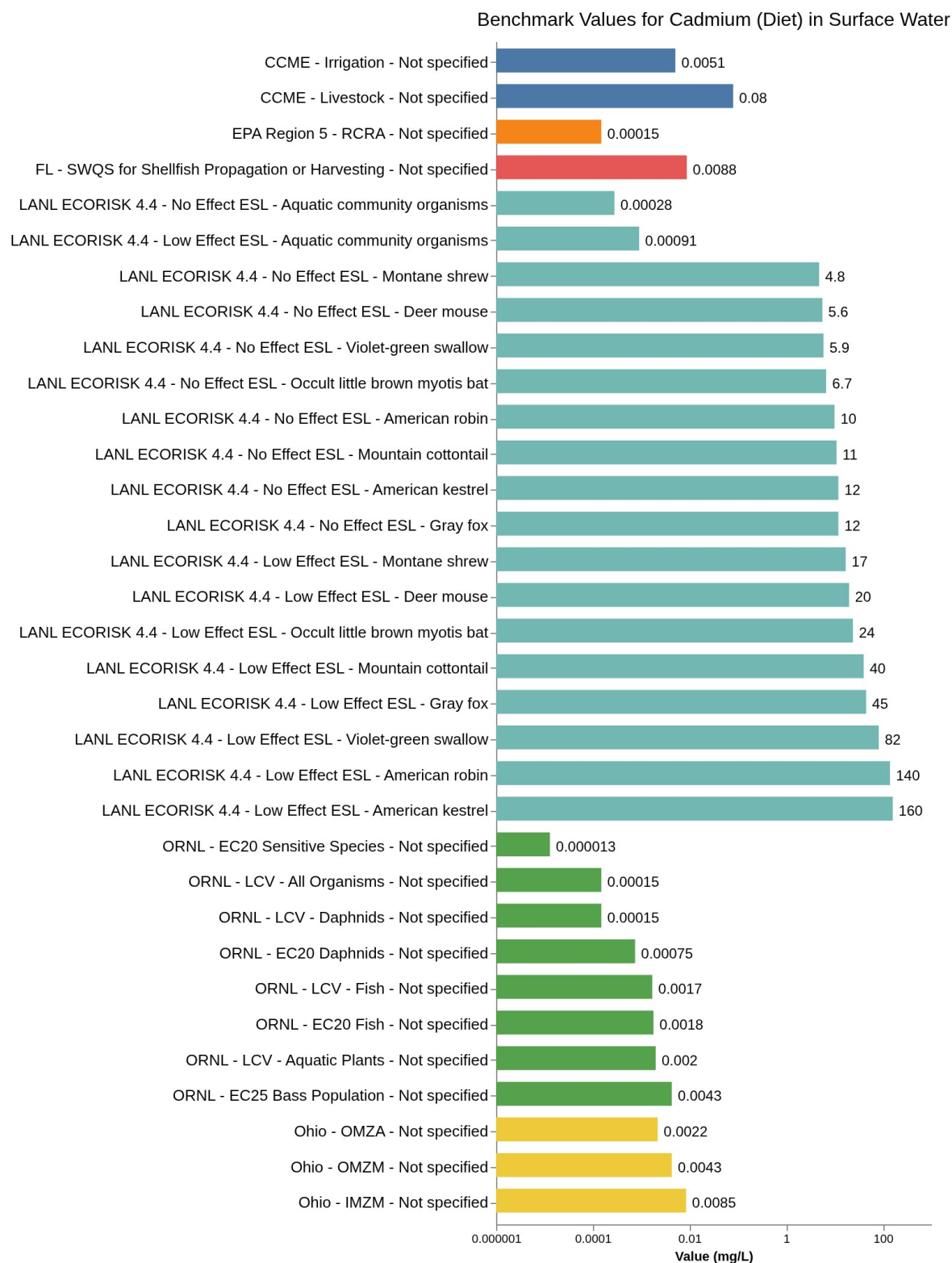


Table 87: Benchmark Values for Calcium in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
7440-70-2	Canada	Water Livestock	Not specified	1000
7440-70-2	ORNL	SW Lowest Chronic Value – Daphnids	Not specified	116
7440-70-2	ORNL	SW Lowest Chronic Value – All Organisms	Not specified	116

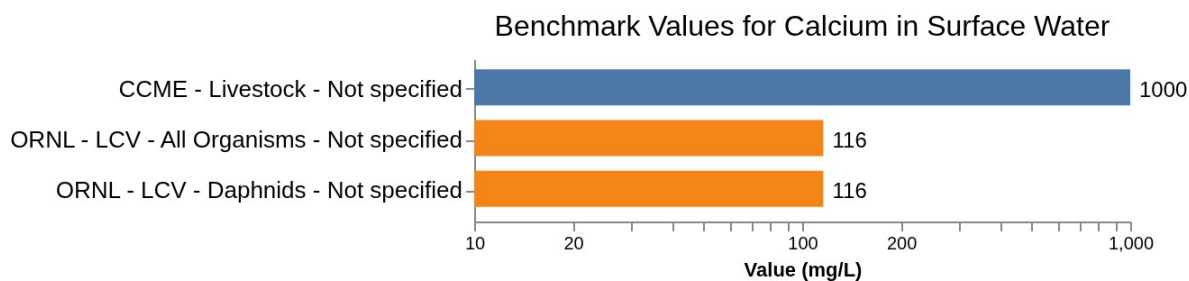


Table 88: Benchmark Values for Captafol in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
2425-06-1	Florida	Freshwater and Marine Water Contaminant Cleanup	Not specified	0.0009

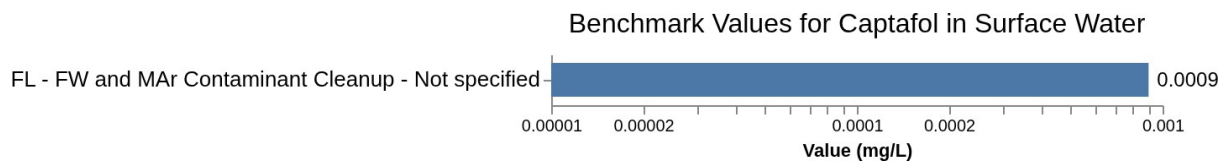


Table 89: Benchmark Values for Captan in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
133-06-2	Florida	Freshwater and Marine Water Contaminant Cleanup	Not specified	0.0019

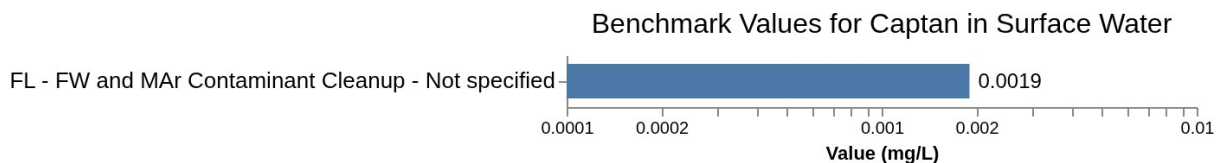
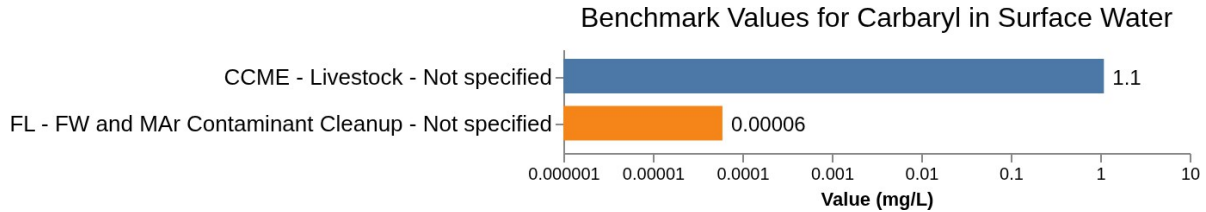
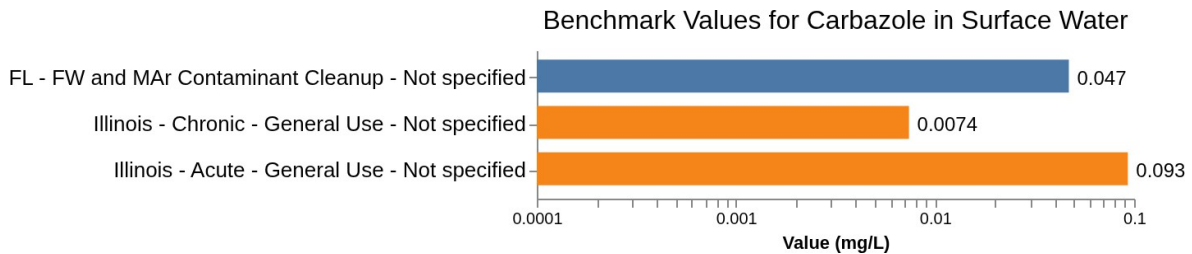


Table 90: Benchmark Values for Carbaryl in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
63-25-2	Canada	Water Livestock	Not specified	1.10000
63-25-2	Florida	Freshwater and Marine Water Contaminant Cleanup	Not specified	0.00006

**Table 91: Benchmark Values for Carbazole in Surface Water**

CAS	Source	Benchmark	Organism	Value (mg/L)
86-74-8	Florida	Freshwater and Marine Water Contaminant Cleanup	Not specified	0.0470
86-74-8	Illinois	Chronic – General Use	Not specified	0.0074
86-74-8	Illinois	Acute – General Use	Not specified	0.0930

**Table 92: Benchmark Values for Carbofuran in Surface Water**

CAS	Source	Benchmark	Organism	Value (mg/L)
1563-66-2	Canada	Water Livestock	Not specified	0.0450
1563-66-2	Florida	Freshwater and Marine Water Contaminant Cleanup	Not specified	0.0001
1563-66-2	Illinois	Chronic – General Use	Not specified	0.0003
1563-66-2	Illinois	Acute – General Use	Not specified	0.0041

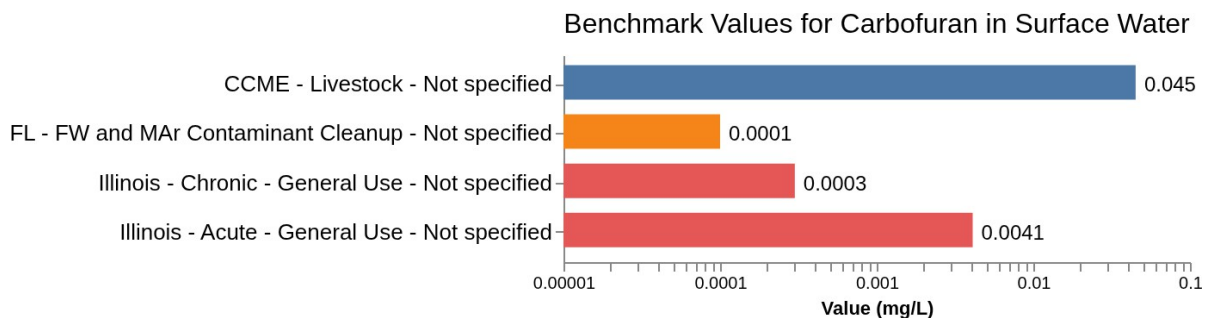


Table 93: Benchmark Values for Carbon Disulfide in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
75-15-0	EPA Region 5	EPA RCRA Surface Water	Not specified	0.01500	
75-15-0	Florida	Freshwater and Marine Water Contaminant Cleanup	Not specified	0.11000	
75-15-0	Illinois	Chronic – General Use	Not specified	0.02000	
75-15-0	Illinois	Acute – General Use	Not specified	0.20000	
75-15-0	ORNL	Tier II Secondary Chronic Value	Not specified	0.00092	
75-15-0	ORNL	Tier II Secondary Acute Value	Not specified	0.01700	
75-15-0	ORNL	SW Lowest Chronic Value – All Organisms	Not specified	0.24400	24
75-15-0	ORNL	SW Lowest Chronic Value – Daphnids	Not specified	0.24400	24
75-15-0	ORNL	EC25 Bass Population	Not specified	1.00000	
75-15-0	ORNL	EC20 Fish	Not specified	5.72000	29
75-15-0	ORNL	SW Lowest Chronic Value – Fish	Not specified	9.54000	24

Benchmark Values for Carbon Disulfide in Surface Water

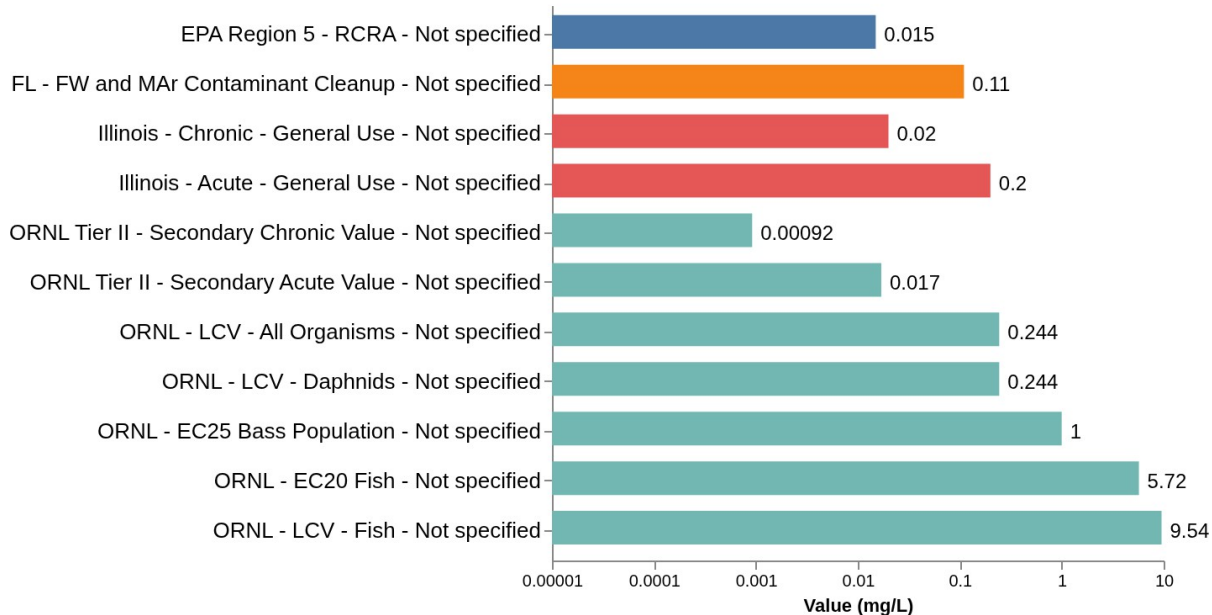


Table 94: Benchmark Values for Carbon Tetrachloride in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
56-23-5	Canada	Water Livestock	Not specified	0.00500	
56-23-5	EPA Region 4	Freshwater and Saltwater Chronic Narcotic MOA	Not specified	0.95500	
56-23-5	EPA Region 4	Freshwater and Saltwater Acute, Narcotic MOA	Not specified	3.65100	
56-23-5	EPA Region 5	EPA RCRA Surface Water	Not specified	0.24000	
56-23-5	Florida	SWQS for Shellfish Propagation or Harvesting	Not specified	0.00442	
56-23-5	Illinois	Chronic – General Use	Not specified	0.28000	
56-23-5	Illinois	Acute – General Use	Not specified	3.50000	
56-23-5	ORNL	Tier II Secondary Chronic Value	Not specified	0.00980	
56-23-5	ORNL	EC20 Fish	Not specified	0.06500	31
56-23-5	ORNL	Tier II Secondary Acute Value	Not specified	0.18000	
56-23-5	ORNL	EC25 Bass Population	Not specified	0.22400	
56-23-5	ORNL	SW Lowest Chronic Value – All Organisms	Not specified	1.97000	
56-23-5	ORNL	SW Lowest Chronic Value – Fish	Not specified	1.97000	
56-23-5	ORNL	SW Lowest Chronic Value – Daphnids	Not specified	5.58000	24

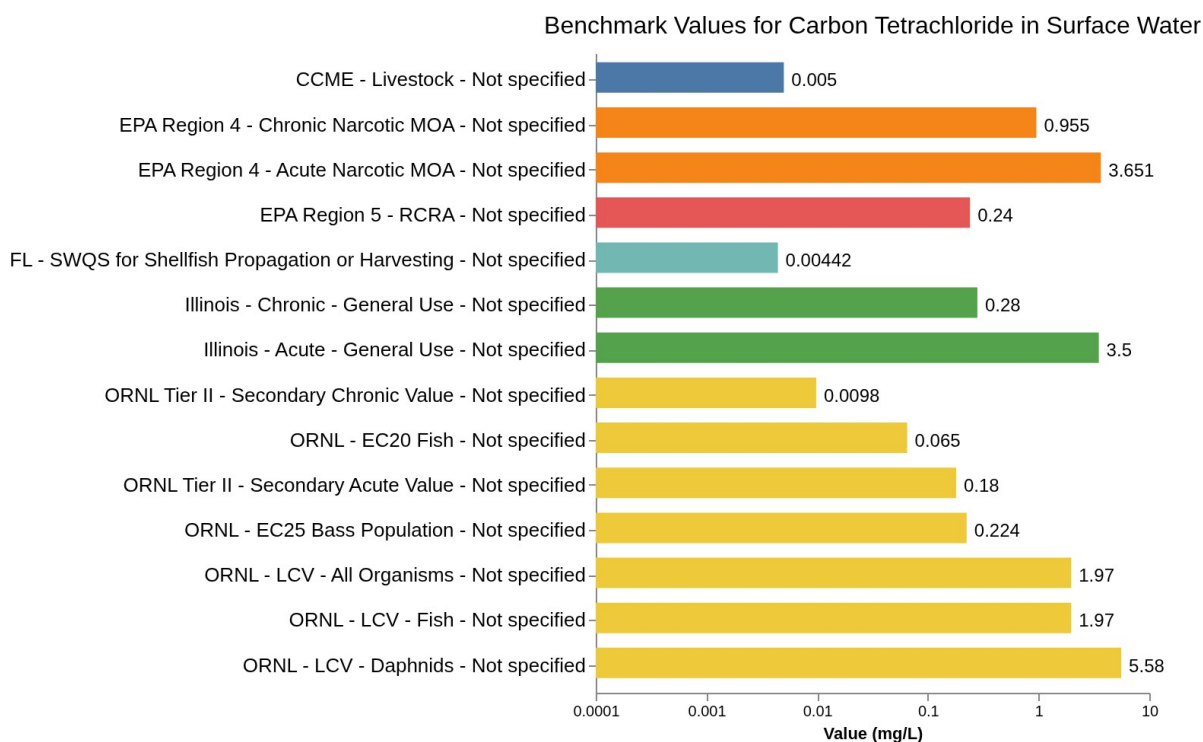


Table 95: Benchmark Values for Carboxin in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
5234-68-4	Florida	Freshwater and Marine Water Contaminant Cleanup	Not specified	0.06

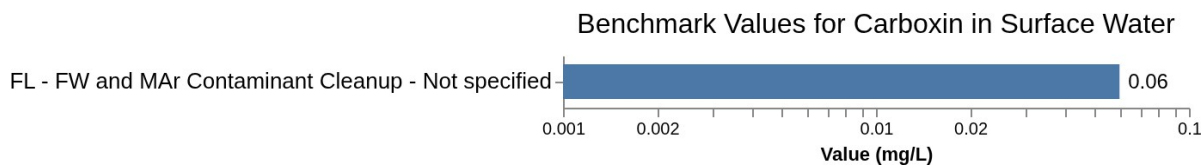


Table 96: Benchmark Values for Chlorate (ClO₃) in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
14866-68-3	British Columbia	LTC	Not specified	5	
14866-68-3	British Columbia	Livestock LTC	Not specified	5	

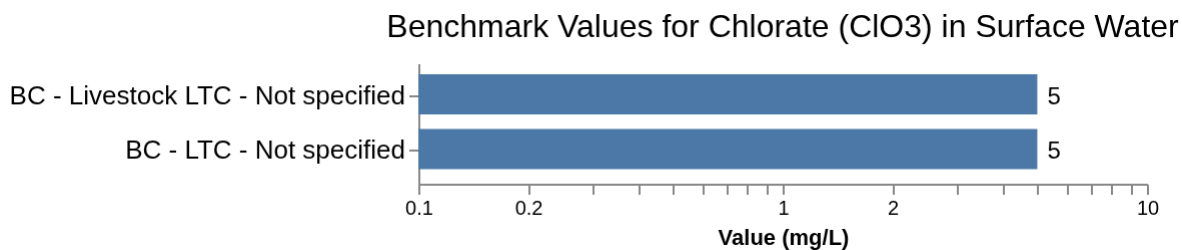


Table 97: Benchmark Values for Chlordane (alpha) in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
5103-71-9	LANL ECORISK	Surface Water No Effect ESL	Aquatic community organisms	0.000004
5103-71-9	LANL ECORISK	Surface Water Low Effect ESL	Aquatic community organisms	0.000043
5103-71-9	LANL ECORISK	Surface Water No Effect ESL	Montane shrew	5.200000
5103-71-9	LANL ECORISK	Surface Water No Effect ESL	Deer mouse	6.100000
5103-71-9	LANL ECORISK	Surface Water No Effect ESL	Occult little brown myotis bat	7.300000
5103-71-9	LANL ECORISK	Surface Water No Effect ESL	Violet-green swallow	8.800000
5103-71-9	LANL ECORISK	Surface Water No Effect ESL	Mountain cottontail	12.000000
5103-71-9	LANL ECORISK	Surface Water No Effect ESL	Gray fox	13.000000
5103-71-9	LANL ECORISK	Surface Water No Effect ESL	American robin	15.000000
5103-71-9	LANL ECORISK	Surface Water No Effect ESL	American kestrel	17.000000
5103-71-9	LANL ECORISK	Surface Water Low Effect ESL	Violet-green swallow	44.000000
5103-71-9	LANL ECORISK	Surface Water Low Effect ESL	Montane shrew	52.000000
5103-71-9	LANL ECORISK	Surface Water Low Effect ESL	Deer mouse	62.000000
5103-71-9	LANL ECORISK	Surface Water Low Effect ESL	Occult little brown myotis bat	74.000000
5103-71-9	LANL ECORISK	Surface Water Low Effect ESL	American robin	76.000000
5103-71-9	LANL ECORISK	Surface Water Low Effect ESL	American kestrel	89.000000
5103-71-9	LANL ECORISK	Surface Water Low Effect ESL	Mountain cottontail	120.000000
5103-71-9	LANL ECORISK	Surface Water Low Effect ESL	Gray fox	130.000000

Benchmark Values for Chlordane (alpha) in Surface Water

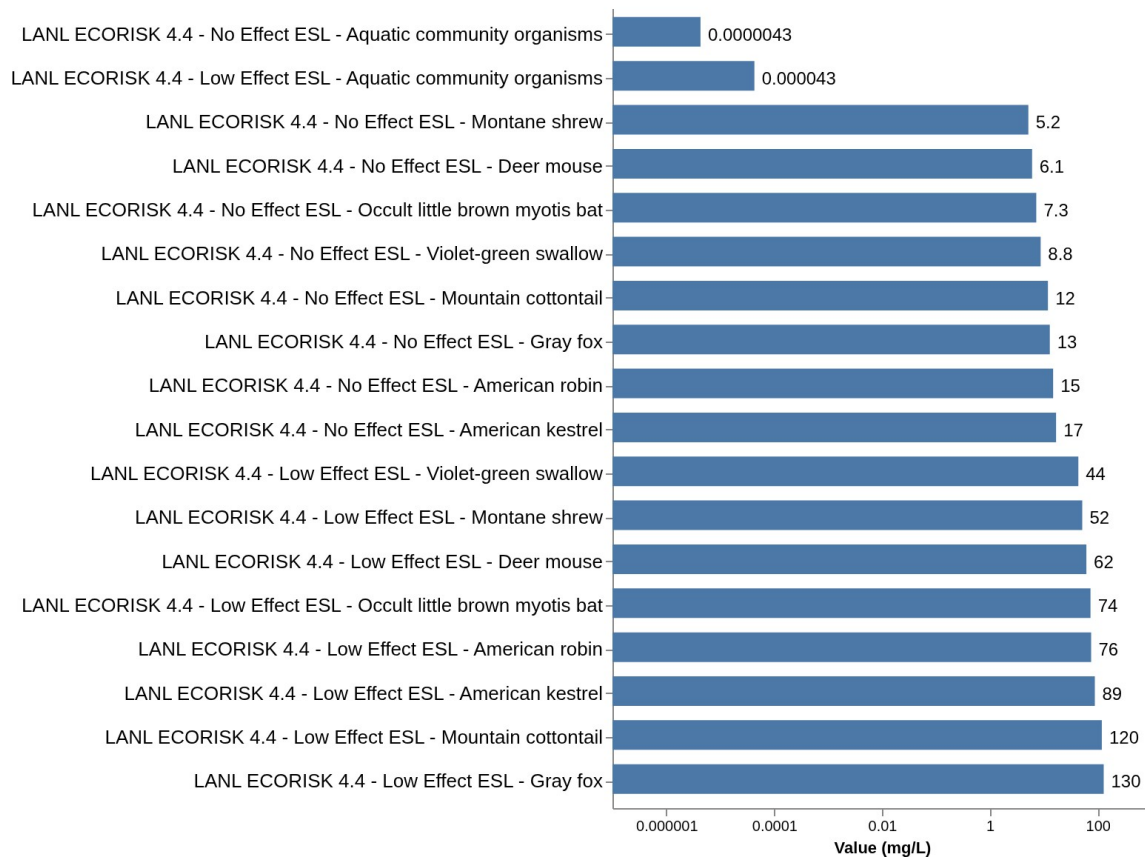


Table 98: Benchmark Values for Chlordane (gamma) in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
5103-74-2	LANL ECORISK	Surface Water No Effect ESL	Aquatic community organisms	0.000004
5103-74-2	LANL ECORISK	Surface Water Low Effect ESL	Aquatic community organisms	0.000043
5103-74-2	LANL ECORISK	Surface Water No Effect ESL	Montane shrew	5.200000
5103-74-2	LANL ECORISK	Surface Water No Effect ESL	Deer mouse	6.100000
5103-74-2	LANL ECORISK	Surface Water No Effect ESL	Occult little brown myotis bat	7.300000
5103-74-2	LANL ECORISK	Surface Water No Effect ESL	Violet-green swallow	8.800000
5103-74-2	LANL ECORISK	Surface Water No Effect ESL	Mountain cottontail	12.000000
5103-74-2	LANL ECORISK	Surface Water No Effect ESL	Gray fox	13.000000
5103-74-2	LANL ECORISK	Surface Water No Effect ESL	American robin	15.000000
5103-74-2	LANL ECORISK	Surface Water No Effect ESL	American kestrel	17.000000
5103-74-2	LANL ECORISK	Surface Water Low Effect ESL	Violet-green swallow	44.000000
5103-74-2	LANL ECORISK	Surface Water Low Effect ESL	Montane shrew	52.000000
5103-74-2	LANL ECORISK	Surface Water Low Effect ESL	Deer mouse	62.000000
5103-74-2	LANL ECORISK	Surface Water Low Effect ESL	Occult little brown myotis bat	74.000000
5103-74-2	LANL ECORISK	Surface Water Low Effect ESL	American robin	76.000000
5103-74-2	LANL ECORISK	Surface Water Low Effect ESL	American kestrel	89.000000
5103-74-2	LANL ECORISK	Surface Water Low Effect ESL	Mountain cottontail	120.000000
5103-74-2	LANL ECORISK	Surface Water Low Effect ESL	Gray fox	130.000000

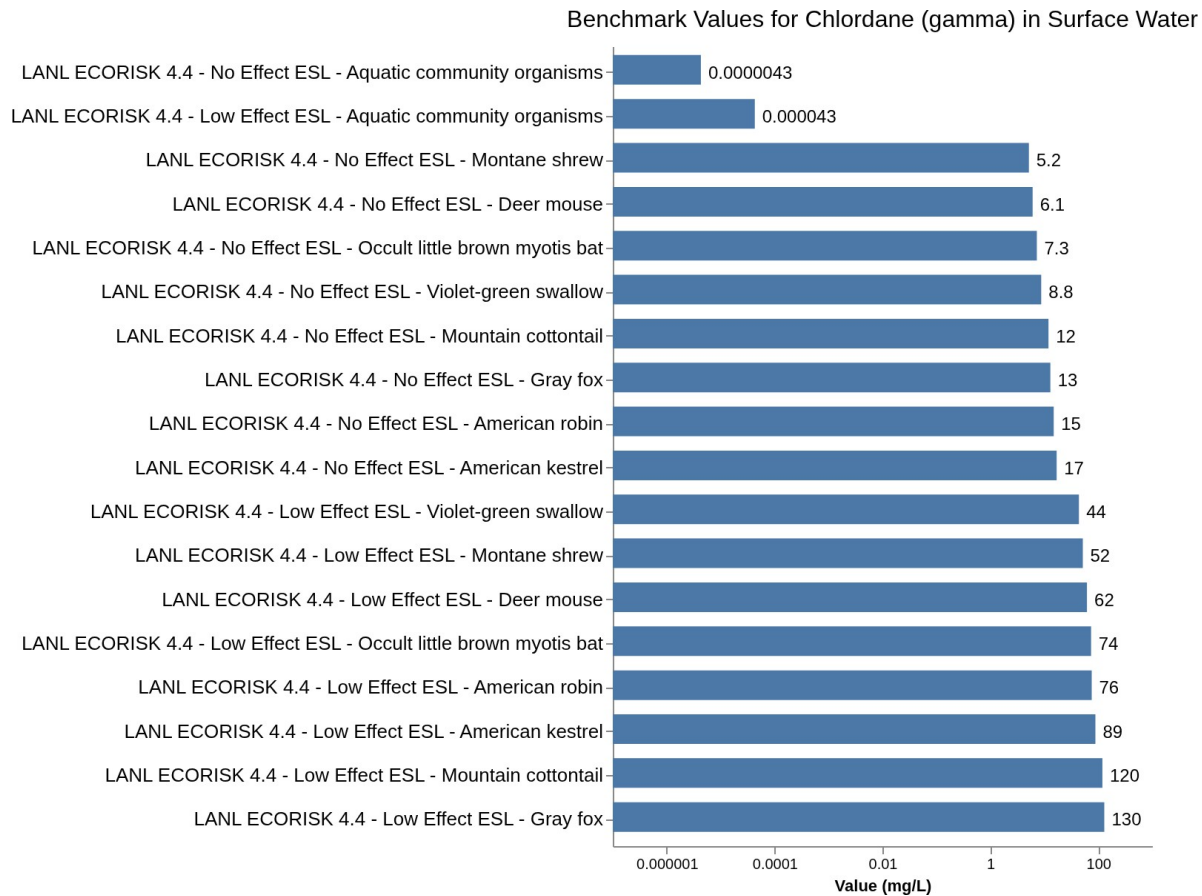


Table 99: Benchmark Values for Chlordane in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
57-74-9	EPA Region 5	EPA RCRA Surface Water	Not specified	4.300000e-06	
57-74-9	Florida	SWQS for Shellfish Propagation or Harvesting	Not specified	5.900000e-07	
57-74-9	Illinois	Chronic – General Use	Not specified	4.300000e-06	196, 197
57-74-9	Illinois	Acute – General Use	Not specified	2.400000e-03	196, 197
57-74-9	ORNL	EC20 Fish	Not specified	2.500000e-04	23
57-74-9	ORNL	EC20 Sensitive Species	Not specified	5.000000e-04	
57-74-9	ORNL	EC25 Bass Population	Not specified	7.100000e-04	
57-74-9	ORNL	SW Lowest Chronic Value – All Organisms	Not specified	1.090000e-03	
57-74-9	ORNL	SW Lowest Chronic Value – Non-Daphnid Inverts	Not specified	1.090000e-03	
57-74-9	ORNL	SW Lowest Chronic Value – Fish	Not specified	1.600000e-03	
57-74-9	ORNL	EC20 Daphnids	Not specified	1.210000e-02	
57-74-9	ORNL	SW Lowest Chronic Value – Daphnids	Not specified	1.600000e-02	

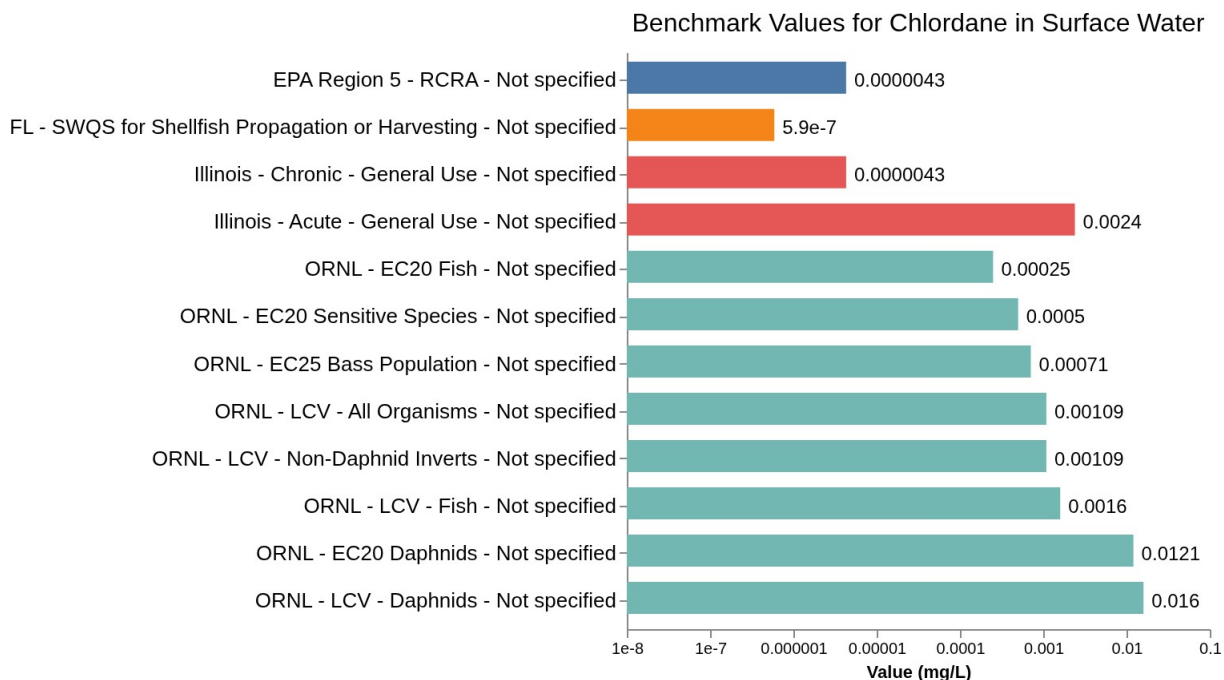


Table 100: Benchmark Values for Chlordecone (Kepone) in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
143-50-0	EPA Region 5	EPA RCRA Surface Water	Not specified	0.000132
143-50-0	LANL ECORISK	Surface Water No Effect ESL	Montane shrew	0.350000
143-50-0	LANL ECORISK	Surface Water No Effect ESL	Deer mouse	0.420000
143-50-0	LANL ECORISK	Surface Water No Effect ESL	Occult little brown myotis bat	0.500000
143-50-0	LANL ECORISK	Surface Water No Effect ESL	Mountain cottontail	0.820000
143-50-0	LANL ECORISK	Surface Water No Effect ESL	Gray fox	0.930000
143-50-0	LANL ECORISK	Surface Water Low Effect ESL	Montane shrew	1.700000
143-50-0	LANL ECORISK	Surface Water Low Effect ESL	Deer mouse	2.100000
143-50-0	LANL ECORISK	Surface Water Low Effect ESL	Occult little brown myotis bat	2.500000
143-50-0	LANL ECORISK	Surface Water Low Effect ESL	Mountain cottontail	4.100000
143-50-0	LANL ECORISK	Surface Water Low Effect ESL	Gray fox	4.600000
143-50-0	LANL ECORISK	Surface Water No Effect ESL	Violet-green swallow	35.000000
143-50-0	LANL ECORISK	Surface Water No Effect ESL	American robin	60.000000
143-50-0	LANL ECORISK	Surface Water Low Effect ESL	Violet-green swallow	70.000000
143-50-0	LANL ECORISK	Surface Water No Effect ESL	American kestrel	70.000000
143-50-0	LANL ECORISK	Surface Water Low Effect ESL	American robin	120.000000
143-50-0	LANL ECORISK	Surface Water Low Effect ESL	American kestrel	140.000000

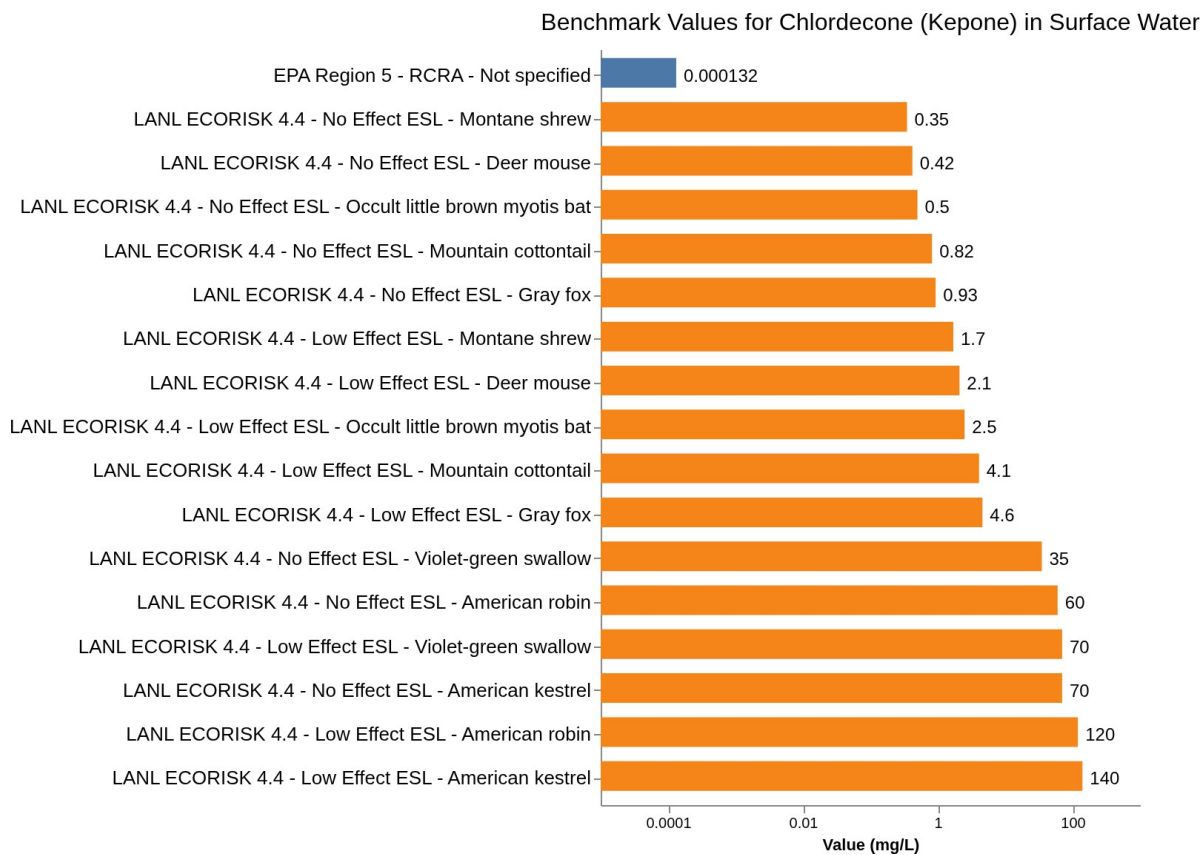


Table 101: Benchmark Values for Chloride in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
16887-00-6	British Columbia	Irrigation LTC	Not specified	100	
16887-00-6	British Columbia	LTC	Not specified	600	
16887-00-6	British Columbia	Livestock LTC	Not specified	600	
16887-00-6	Canada	Water Irrigation	Not specified		47
16887-00-6	LANL ECORISK	Surface Water No Effect ESL	Aquatic community organisms	0.23	
16887-00-6	LANL ECORISK	Surface Water Low Effect ESL	Aquatic community organisms	0.86	

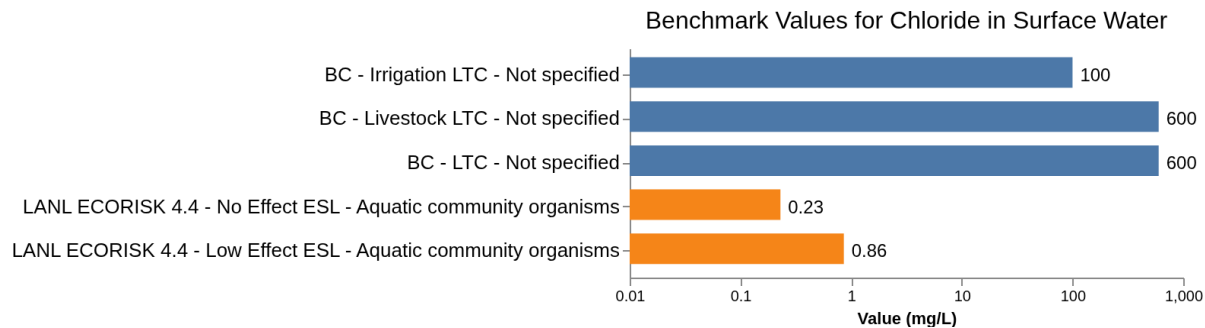


Table 102: Benchmark Values for Chlorine in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
7782-50-5	British Columbia	Irrigation STA	Not specified	1.000	136
7782-50-5	Florida	SWQS for Shellfish Propagation or Harvesting	Not specified	0.010	
7782-50-5	Ohio	OMZA	Not specified	0.011	169, 193
7782-50-5	Ohio	OMZM	Not specified	0.019	169, 193

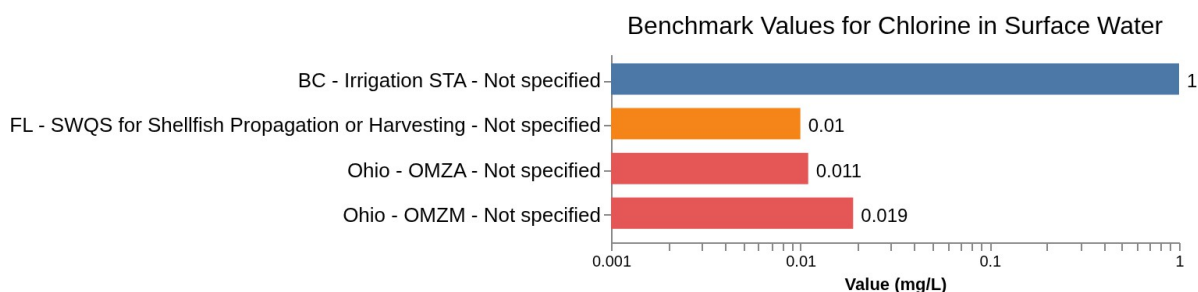


Table 103: Benchmark Values for Chlorite (Sodium Salt) in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
7758-19-2	Florida	Freshwater and Marine Water Contaminant Cleanup	Not specified	0.029

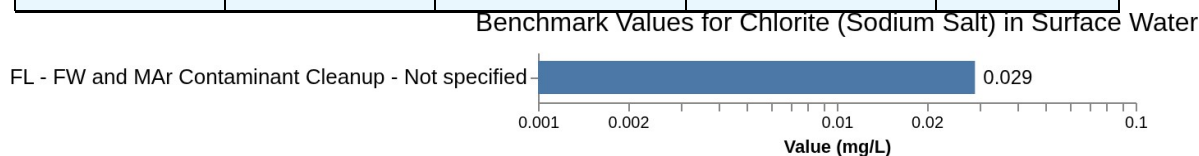


Table 104: Benchmark Values for Chloro-2-(phenylmethyl) phenol, 4- in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
120-32-1	Illinois	Chronic - General Use	Not specified	0.0026
120-32-1	Illinois	Acute - General Use	Not specified	0.0330

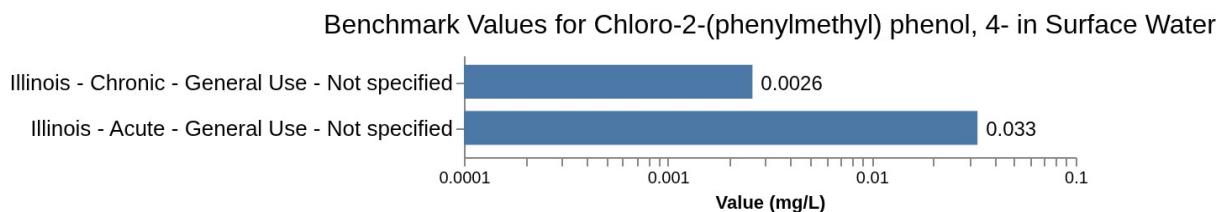


Table 105: Benchmark Values for Chloro-2,6-dinitrophenol, 4- in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
88-87-9	Illinois	Chronic – General Use	Not specified	0.28
88-87-9	Illinois	Acute – General Use	Not specified	3.50

Benchmark Values for Chloro-2,6-dinitrophenol, 4- in Surface Water

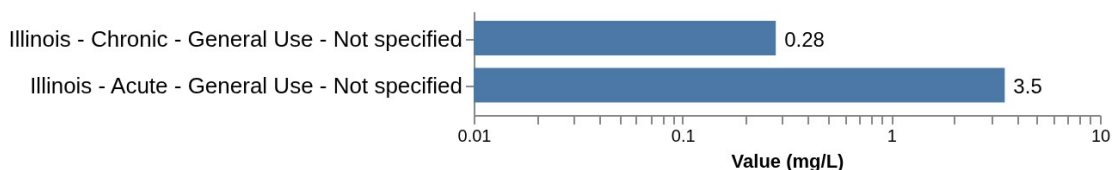


Table 106: Benchmark Values for Chloroaniline, 2- in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
95-51-2	Illinois	Chronic – General Use	Not specified	0.006
95-51-2	Illinois	Acute – General Use	Not specified	0.075

Benchmark Values for Chloroaniline, 2- in Surface Water

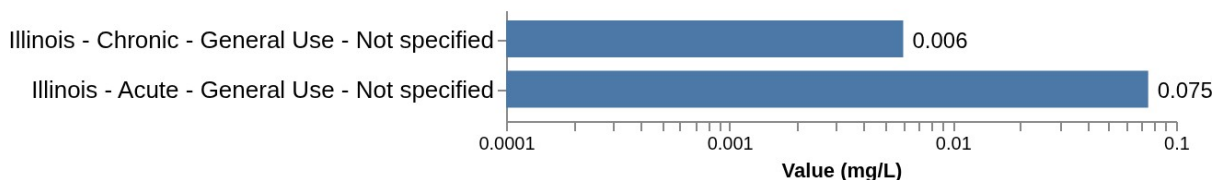


Table 107: Benchmark Values for Chloroaniline, p- in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
106-47-8	EPA Region 5	EPA RCRA Surface Water	Not specified	0.2320	
106-47-8	Florida	Freshwater and Marine Water Contaminant Cleanup	Not specified	0.0025	
106-47-8	Illinois	Chronic – General Use	Not specified	0.0002	195
106-47-8	Illinois	Acute – General Use	Not specified	0.0024	

Benchmark Values for Chloroaniline, p- in Surface Water

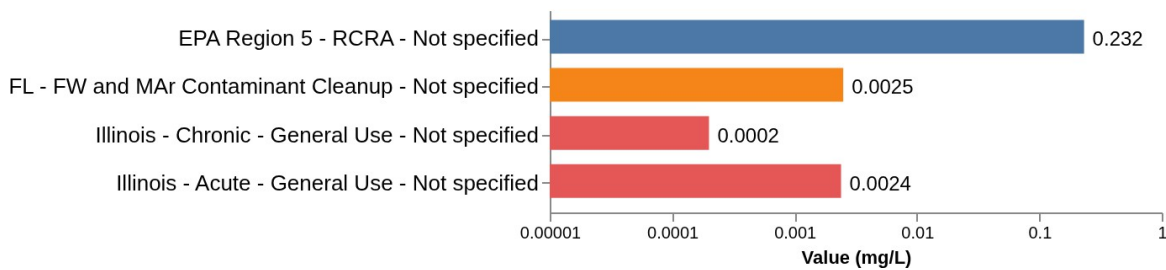


Table 108: Benchmark Values for Chlorobenzene in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
108-90-7	EPA Region 4	Freshwater and Saltwater Chronic Narcotic MOA	Not specified	0.356	
108-90-7	EPA Region 4	Freshwater and Saltwater Acute, Narcotic MOA	Not specified	1.360	
108-90-7	EPA Region 5	EPA RCRA Surface Water	Not specified	0.047	
108-90-7	Florida	Freshwater and Marine Water Contaminant Cleanup	Not specified	0.017	
108-90-7	Illinois	Chronic – General Use	Not specified	0.079	
108-90-7	Illinois	Acute – General Use	Not specified	0.990	
108-90-7	LANL ECORISK	Surface Water No Effect ESL	Aquatic community organisms	0.130	
108-90-7	LANL ECORISK	Surface Water Low Effect ESL	Aquatic community organisms	1.300	
108-90-7	LANL ECORISK	Surface Water No Effect ESL	Montane shrew	260.000	
108-90-7	LANL ECORISK	Surface Water No Effect ESL	Deer mouse	310.000	
108-90-7	LANL ECORISK	Surface Water No Effect ESL	Occult little brown myotis bat	370.000	
108-90-7	LANL ECORISK	Surface Water No Effect ESL	Mountain cottontail	610.000	
108-90-7	LANL ECORISK	Surface Water No Effect ESL	Gray fox	690.000	
108-90-7	LANL ECORISK	Surface Water Low Effect ESL	Montane shrew	2600.000	
108-90-7	LANL ECORISK	Surface Water Low Effect ESL	Deer mouse	3100.000	
108-90-7	LANL ECORISK	Surface Water Low Effect ESL	Occult little brown myotis bat	3700.000	
108-90-7	LANL ECORISK	Surface Water Low Effect ESL	Mountain cottontail	6100.000	
108-90-7	LANL ECORISK	Surface Water Low Effect ESL	Gray fox	6900.000	
108-90-7	ORNL	Tier II Secondary Chronic Value	Not specified	0.064	
108-90-7	ORNL	EC25 Bass Population	Not specified	0.165	
108-90-7	ORNL	EC20 Fish	Not specified	1.000	
108-90-7	ORNL	Tier II Secondary Acute Value	Not specified	1.100	
108-90-7	ORNL	SW Lowest Chronic Value – Fish	Not specified	1.200	24
108-90-7	ORNL	SW Lowest Chronic Value – All Organisms	Not specified	1.203	24
108-90-7	ORNL	SW Lowest Chronic Value – Daphnids	Not specified	15.000	24
108-90-7	ORNL	SW Lowest Chronic Value – Aquatic Plants	Not specified	224.000	

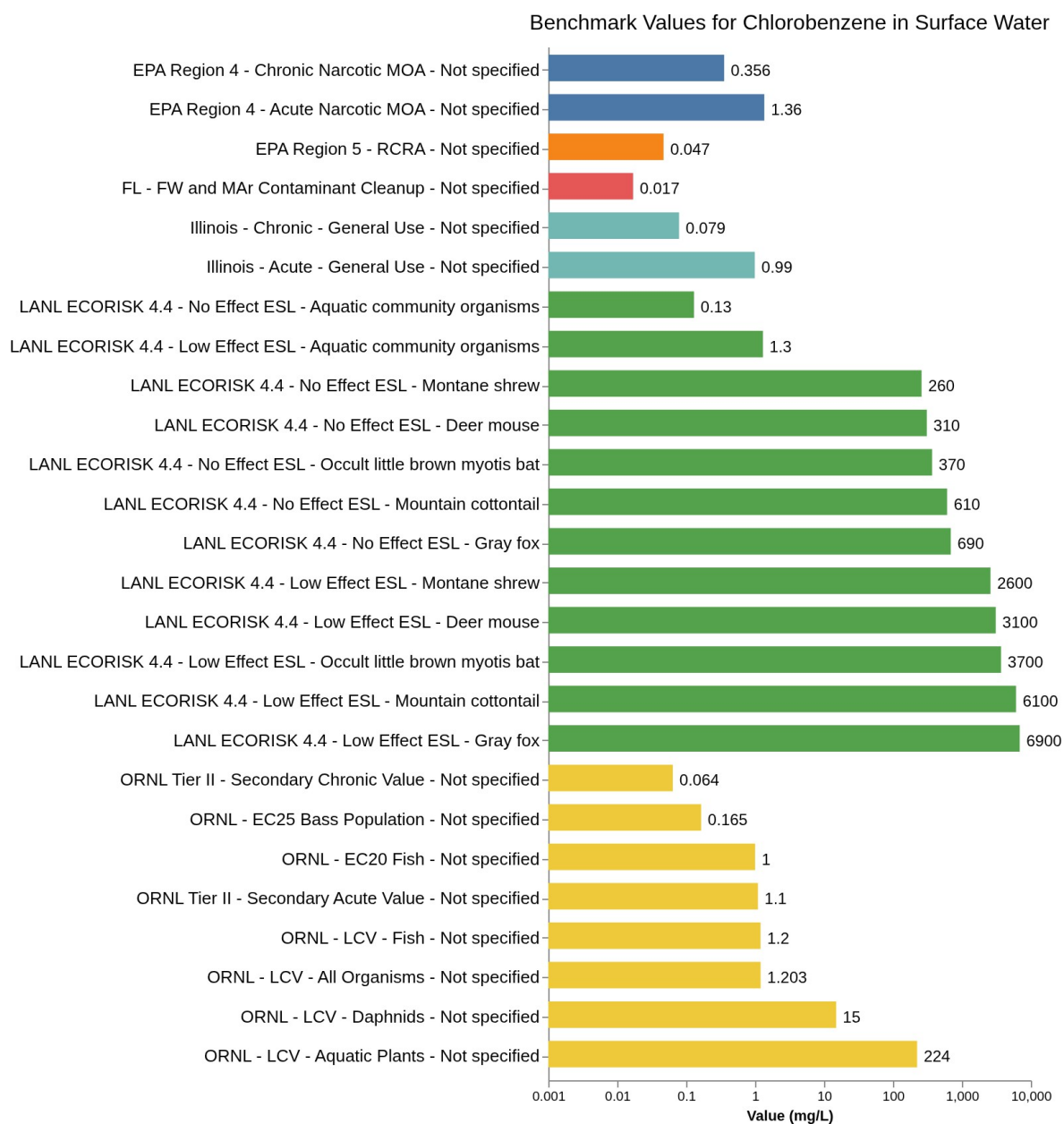


Table 109: Benchmark Values for Chlorobenzilate in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
510-15-6	EPA Region 5	EPA RCRA Surface Water	Not specified	0.00716

Benchmark Values for Chlorobenzilate in Surface Water

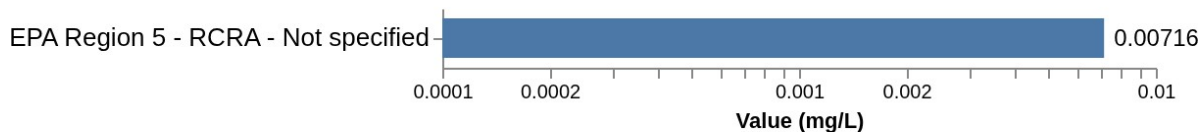


Table 110: Benchmark Values for Chlorodibromoethane in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
73506-94-2	Florida	SWQS for Shellfish Propagation or Harvesting	Not specified	0.034

Benchmark Values for Chlorodibromoethane in Surface Water

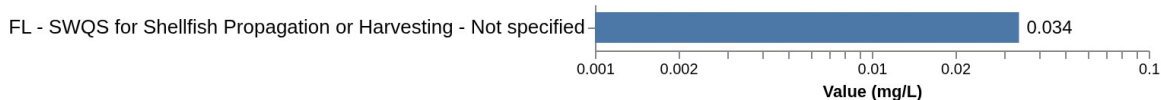


Table 111: Benchmark Values for Chloroethylvinyl ether, 2- in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
110-75-8	Illinois	Chronic – General Use	Not specified	3	195
110-75-8	Illinois	Acute – General Use	Not specified	35	195

Benchmark Values for Chloroethylvinyl ether, 2- in Surface Water

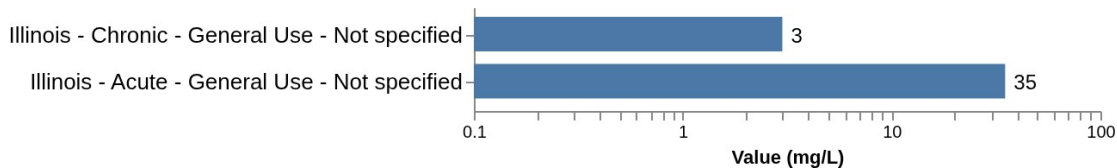


Table 112: Benchmark Values for Chloroform in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
67-66-3	Canada	Water Livestock	Not specified	0.1000	
67-66-3	EPA Region 4	Freshwater and Saltwater Chronic Narcotic MOA	Not specified	5.4170	
67-66-3	EPA Region 4	Freshwater and Saltwater Acute, Narcotic MOA	Not specified	20.7560	
67-66-3	EPA Region 5	EPA RCRA Surface Water	Not specified	0.1400	
67-66-3	Florida	SWQS for Shellfish Propagation or Harvesting	Not specified	0.4708	
67-66-3	Illinois	Chronic – General Use	Not specified	0.1500	
67-66-3	Illinois	Acute – General Use	Not specified	1.9000	
67-66-3	LANL ECORISK	Surface Water No Effect ESL	Aquatic community organisms	0.0018	
67-66-3	LANL ECORISK	Surface Water Low Effect ESL	Aquatic community organisms	0.0180	
67-66-3	LANL ECORISK	Surface Water No Effect ESL	Montane shrew	67.0000	
67-66-3	LANL ECORISK	Surface Water No Effect ESL	Deer mouse	78.0000	
67-66-3	LANL ECORISK	Surface Water No Effect ESL	Occult little brown myotis bat	94.0000	
67-66-3	LANL ECORISK	Surface Water No Effect ESL	Mountain cottontail	150.0000	
67-66-3	LANL ECORISK	Surface Water No Effect ESL	Gray fox	170.0000	
67-66-3	LANL ECORISK	Surface Water Low Effect ESL	Montane shrew	180.0000	
67-66-3	LANL ECORISK	Surface Water Low Effect ESL	Deer mouse	210.0000	
67-66-3	LANL ECORISK	Surface Water Low Effect ESL	Occult little brown myotis bat	250.0000	
67-66-3	LANL ECORISK	Surface Water Low Effect ESL	Mountain cottontail	420.0000	
67-66-3	LANL ECORISK	Surface Water Low Effect ESL	Gray fox	470.0000	
67-66-3	ORNL	Tier II Secondary Chronic Value	Not specified	0.0280	
67-66-3	ORNL	Tier II Secondary Acute Value	Not specified	0.4900	
67-66-3	ORNL	EC25 Bass Population	Not specified	0.5620	
67-66-3	ORNL	SW Lowest Chronic Value – Fish	Not specified	1.2400	
67-66-3	ORNL	SW Lowest Chronic Value – All Organisms	Not specified	1.2400	
67-66-3	ORNL	SW Lowest Chronic Value – Daphnids	Not specified	4.4800	24
67-66-3	ORNL	EC20 Fish	Not specified	8.4000	31

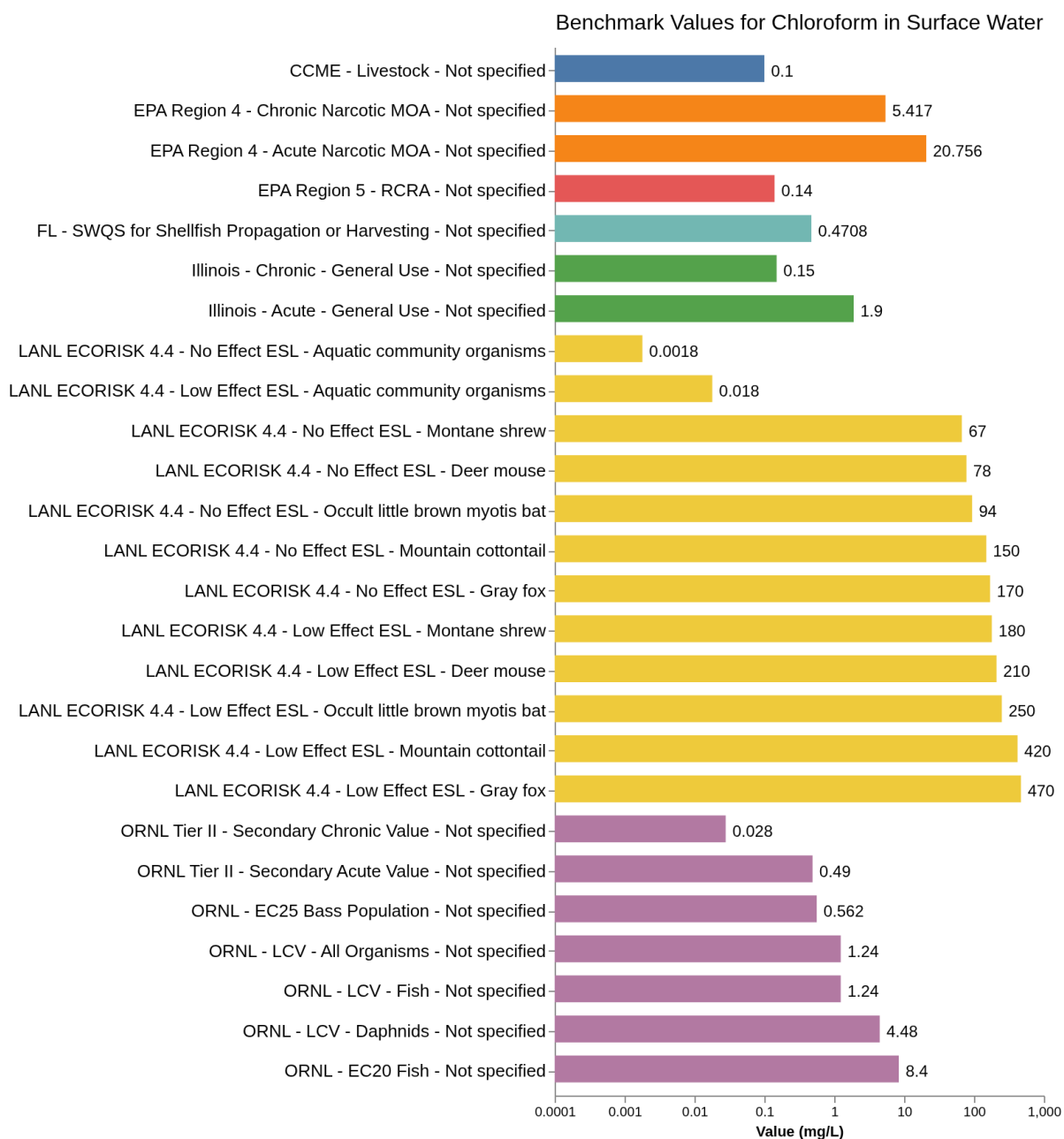


Table 113: Benchmark Values for Chloromethane in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
74-87-3	Florida	SWQS for Shellfish Propagation or Harvesting	Not specified	0.4708	
74-87-3	Illinois	Chronic – General Use	Not specified	1.3000	195
74-87-3	Illinois	Acute – General Use	Not specified	16.0000	195

Benchmark Values for Chloromethane in Surface Water

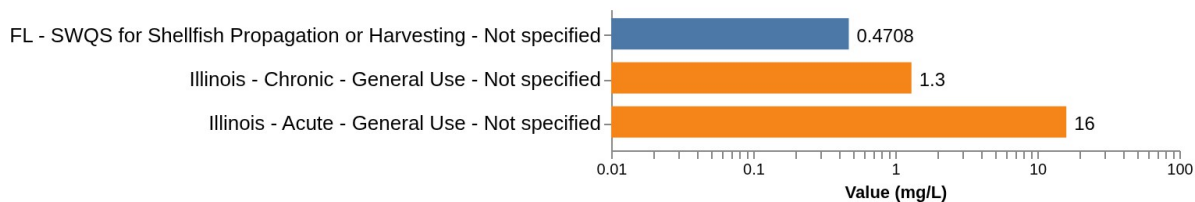


Table 114: Benchmark Values for Chloronaphthalene, Beta- in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
91-58-7	EPA Region 5	EPA RCRA Surface Water	Not specified	0.000396	
91-58-7	Illinois	Chronic – General Use	Not specified	0.030000	195
91-58-7	Illinois	Acute – General Use	Not specified	0.370000	195

Benchmark Values for Chloronaphthalene, Beta- in Surface Water

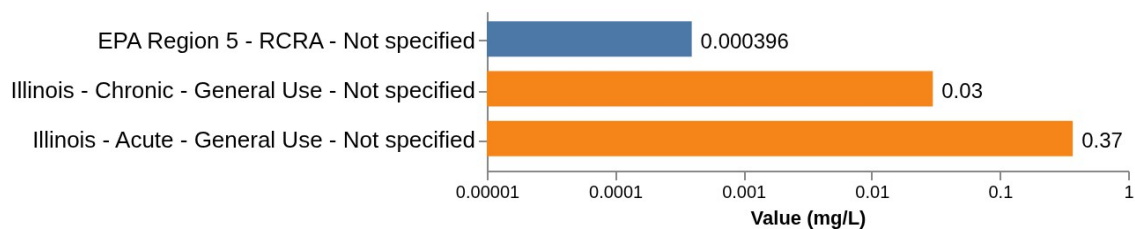


Table 115: Benchmark Values for Chloronitrobenzene, o- in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
88-73-3	Illinois	Chronic – General Use	Not specified	0.07	195
88-73-3	Illinois	Acute – General Use	Not specified	0.88	195

Benchmark Values for Chloronitrobenzene, o- in Surface Water

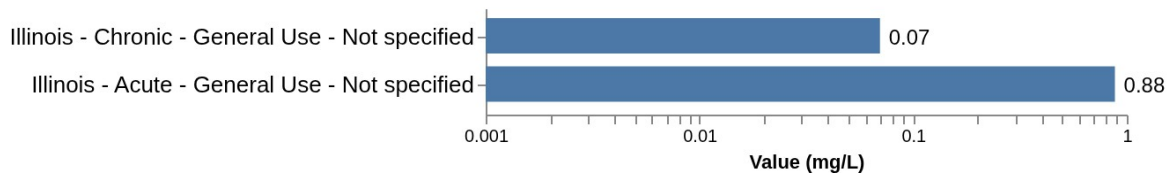


Table 116: Benchmark Values for Chloronitrobenzene, p- in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
100-00-5	Florida	Freshwater and Marine Water Contaminant Cleanup	Not specified	0.11

Benchmark Values for Chloronitrobenzene, p- in Surface Water

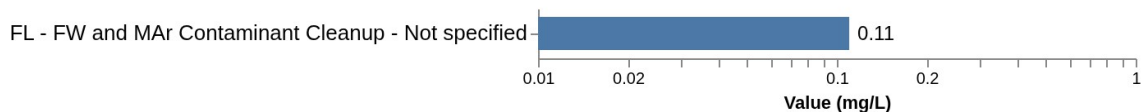


Table 117: Benchmark Values for Chlorophenol, 2- in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
95-57-8	EPA Region 4	Freshwater and Saltwater Chronic Narcotic MOA	Not specified	1.041
95-57-8	EPA Region 4	Freshwater and Saltwater Acute, Narcotic MOA	Not specified	2.738
95-57-8	EPA Region 5	EPA RCRA Surface Water	Not specified	0.024
95-57-8	Florida	Freshwater and Marine Water Contaminant Cleanup	Not specified	0.130
95-57-8	Florida	SWQS for Shellfish Propagation or Harvesting	Not specified	0.400
95-57-8	Illinois	Chronic – General Use	Not specified	0.041
95-57-8	Illinois	Acute – General Use	Not specified	0.510
95-57-8	LANL ECORISK	Surface Water No Effect ESL	Aquatic community organisms	0.490
95-57-8	LANL ECORISK	Surface Water No Effect ESL	Montane shrew	2.200
95-57-8	LANL ECORISK	Surface Water No Effect ESL	Deer mouse	2.600
95-57-8	LANL ECORISK	Surface Water No Effect ESL	Occult little brown myotis bat	3.100
95-57-8	LANL ECORISK	Surface Water Low Effect ESL	Aquatic community organisms	4.300
95-57-8	LANL ECORISK	Surface Water No Effect ESL	Violet-green swallow	4.600
95-57-8	LANL ECORISK	Surface Water No Effect ESL	Mountain cottontail	5.100
95-57-8	LANL ECORISK	Surface Water No Effect ESL	Gray fox	5.800
95-57-8	LANL ECORISK	Surface Water No Effect ESL	American robin	8.000
95-57-8	LANL ECORISK	Surface Water No Effect ESL	American kestrel	9.400
95-57-8	LANL ECORISK	Surface Water Low Effect ESL	Montane shrew	22.000
95-57-8	LANL ECORISK	Surface Water Low Effect ESL	Deer mouse	26.000
95-57-8	LANL ECORISK	Surface Water Low Effect ESL	Occult little brown myotis bat	31.000
95-57-8	LANL ECORISK	Surface Water Low Effect ESL	Violet-green swallow	46.000
95-57-8	LANL ECORISK	Surface Water Low Effect ESL	Mountain cottontail	51.000
95-57-8	LANL ECORISK	Surface Water Low Effect ESL	Gray fox	58.000
95-57-8	LANL ECORISK	Surface Water Low Effect ESL	American robin	80.000
95-57-8	LANL ECORISK	Surface Water Low Effect ESL	American kestrel	94.000

Benchmark Values for Chlorophenol, 2- in Surface Water

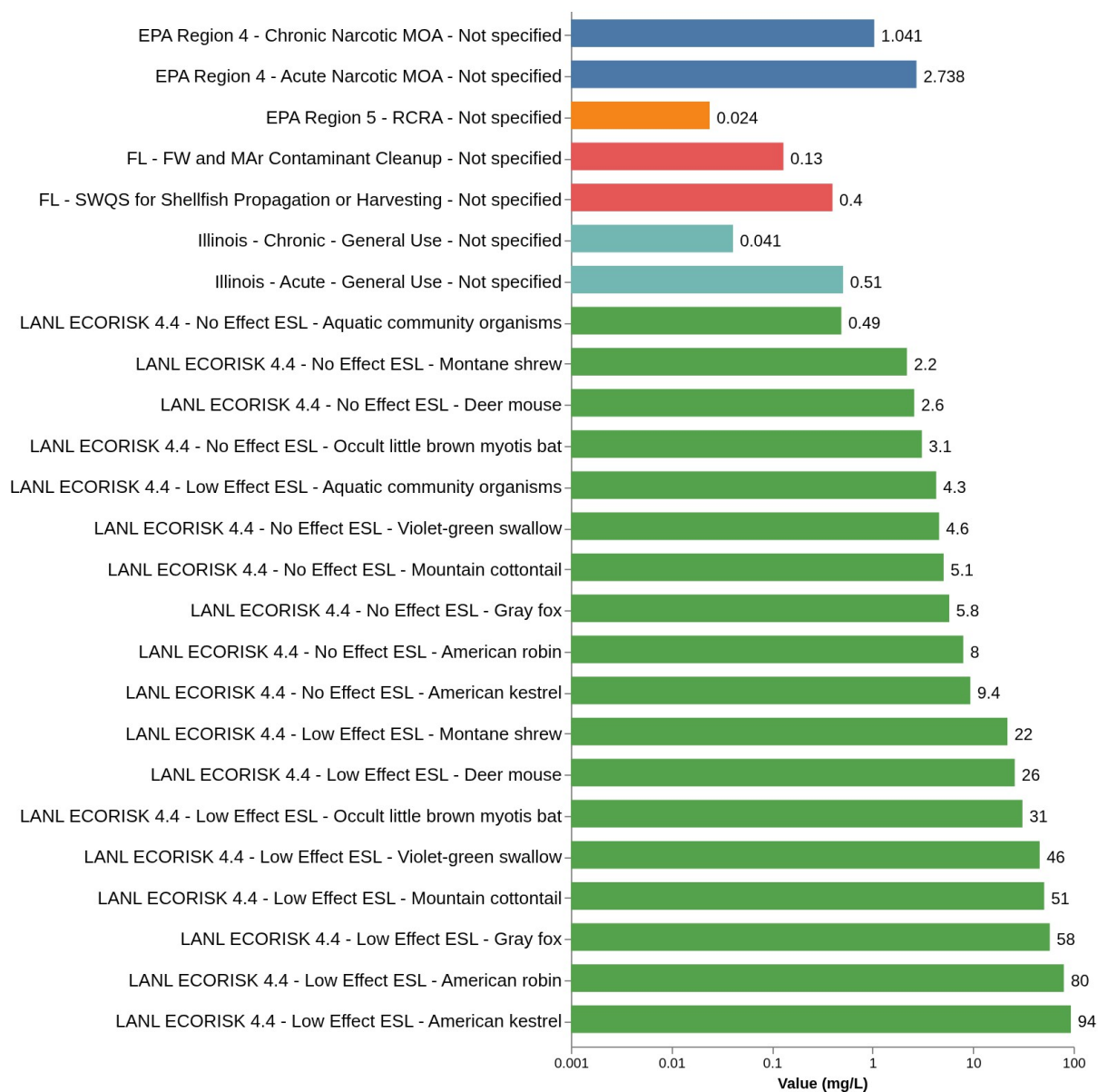


Table 118: Benchmark Values for Chlorophenol, 3- in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
108-43-0	Florida	Freshwater and Marine Water Contaminant Cleanup	Not specified	0.17

Benchmark Values for Chlorophenol, 3- in Surface Water

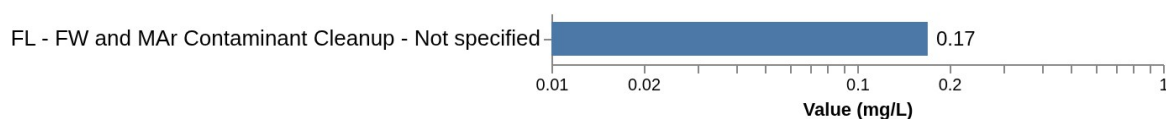


Table 119: Benchmark Values for Chlorophenol, 4- in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
106-48-9	Florida	Freshwater and Marine Water Contaminant Cleanup	Not specified	0.18

Benchmark Values for Chlorophenol, 4- in Surface Water

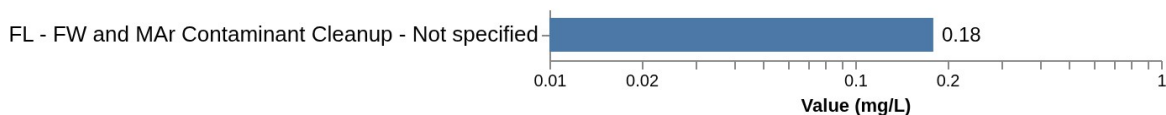


Table 120: Benchmark Values for Chlorothalonil in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
1897-45-6	Canada	Water Irrigation	Not specified	0.0058
1897-45-6	Canada	Water Livestock	Not specified	0.1700
1897-45-6	Florida	Freshwater and Marine Water Contaminant Cleanup	Not specified	0.0008

Benchmark Values for Chlorothalonil in Surface Water

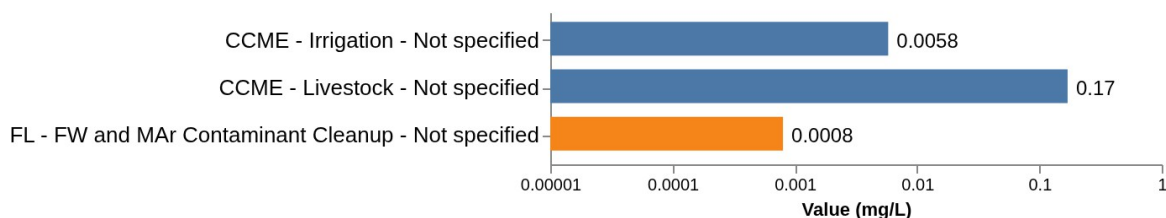


Table 121: Benchmark Values for Chlorotoluene, o- in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
95-49-8	Florida	Freshwater and Marine Water Contaminant Cleanup	Not specified	0.390	
95-49-8	Illinois	Chronic – General Use	Not specified	0.055	195
95-49-8	Illinois	Acute – General Use	Not specified	0.670	195

Benchmark Values for Chlorotoluene, o- in Surface Water

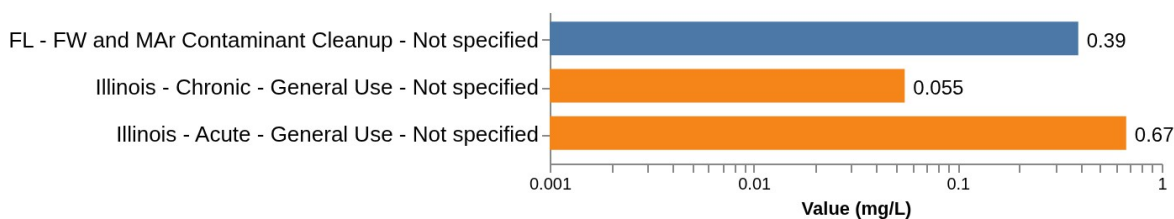


Table 122: Benchmark Values for Chlorpropham in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
101-21-3	Florida	Freshwater and Marine Water Contaminant Cleanup	Not specified	0.19

Benchmark Values for Chlorpropham in Surface Water

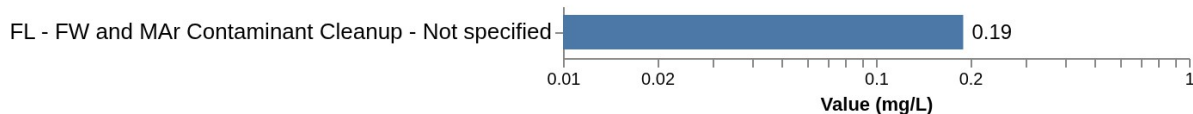


Table 123: Benchmark Values for Chlorpyrifos Methyl in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
5598-13-0	Florida	Freshwater and Marine Water Contaminant Cleanup	Not specified	0.00004

Benchmark Values for Chlorpyrifos Methyl in Surface Water

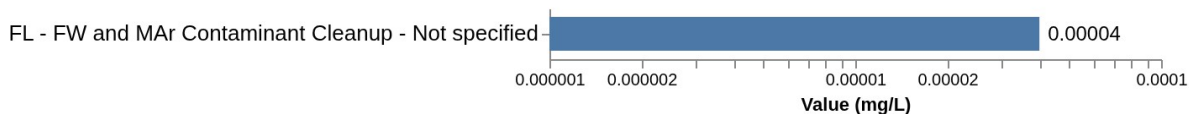


Table 124: Benchmark Values for Chlorpyrifos in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
2921-88-2	Canada	Water Livestock	Not specified	0.024000
2921-88-2	Florida	Freshwater and Marine Water Contaminant Cleanup	Not specified	0.000002
2921-88-2	Florida	SWQS for Shellfish Propagation or Harvesting	Not specified	0.000006
2921-88-2	Illinois	Acute – General Use	Not specified	0.000110

Benchmark Values for Chlorpyrifos in Surface Water

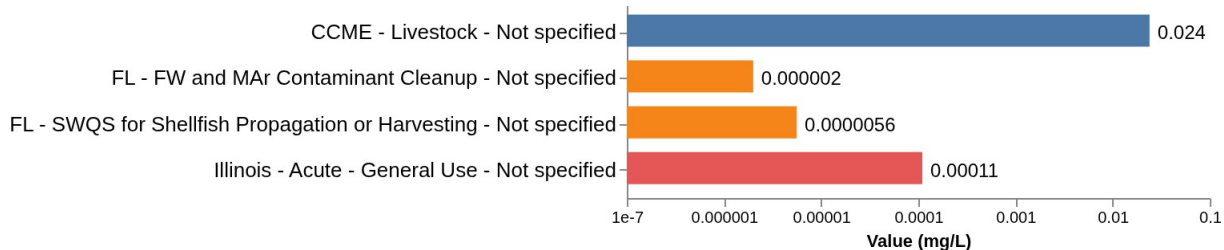


Table 125: Benchmark Values for Chlorsulfuron in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
64902-72-3	Florida	Freshwater and Marine Water Contaminant Cleanup	Not specified	0.016

Benchmark Values for Chlorsulfuron in Surface Water

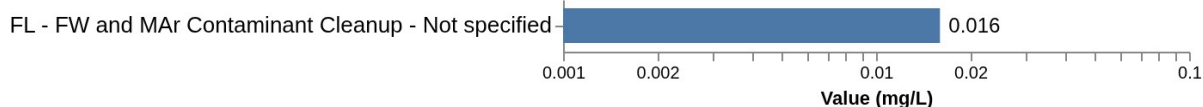


Table 126: Benchmark Values for Chlorthal-dimethyl in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
1861-32-1	Florida	Freshwater and Marine Water Contaminant Cleanup	Not specified	0.31

Benchmark Values for Chlorthal-dimethyl in Surface Water

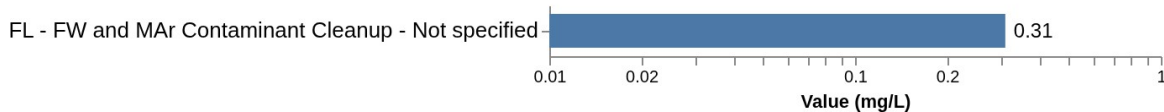


Table 127: Benchmark Values for Chromium(III), (Insoluble Salts) in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
16065-83-1	Canada	Water Irrigation	Not specified	0.0049	
16065-83-1	Canada	Water Livestock	Not specified	0.0500	
16065-83-1	ORNL	SW Lowest Chronic Value – Daphnids	Not specified	0.0440	23
16065-83-1	ORNL	SW Lowest Chronic Value – All Organisms	Not specified	0.0440	23
16065-83-1	ORNL	SW Lowest Chronic Value – Fish	Not specified	0.0686	

Benchmark Values for Chromium(III), (Insoluble Salts) in Surface Water

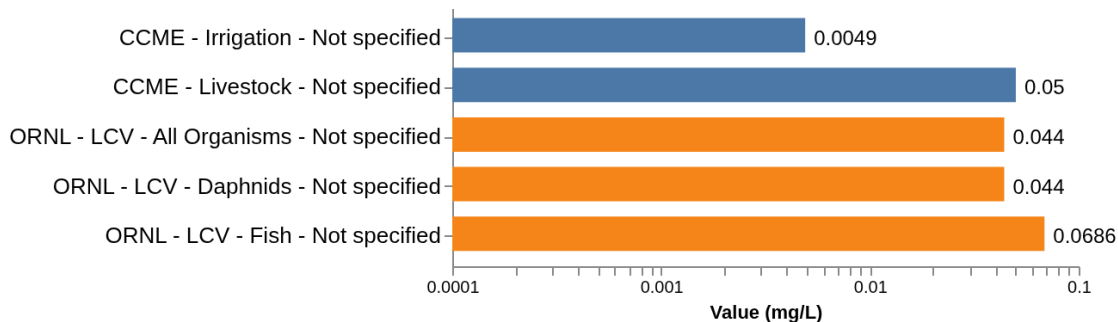


Table 128: Benchmark Values for Chromium(VI) in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
18540-29-9	Canada	Water Irrigation	Not specified	0.008000	
18540-29-9	Canada	Water Livestock	Not specified	0.050000	
18540-29-9	Florida	SWQS for Shellfish Propagation or Harvesting	Not specified	0.050000	
18540-29-9	LANL ECORISK	Surface Water No Effect ESL	Aquatic community organisms	0.011000	
18540-29-9	LANL ECORISK	Surface Water Low Effect ESL	Aquatic community organisms	0.016000	
18540-29-9	LANL ECORISK	Surface Water No Effect ESL	Violet-green swallow	7.100000	
18540-29-9	LANL ECORISK	Surface Water No Effect ESL	American robin	12.000000	
18540-29-9	LANL ECORISK	Surface Water No Effect ESL	American kestrel	14.000000	
18540-29-9	LANL ECORISK	Surface Water Low Effect ESL	Violet-green swallow	71.000000	
18540-29-9	LANL ECORISK	Surface Water Low Effect ESL	American robin	120.000000	
18540-29-9	LANL ECORISK	Surface Water Low Effect ESL	American kestrel	140.000000	
18540-29-9	LANL ECORISK	Surface Water No Effect ESL	Montane shrew	160.000000	
18540-29-9	LANL ECORISK	Surface Water No Effect ESL	Deer mouse	190.000000	
18540-29-9	LANL ECORISK	Surface Water No Effect ESL	Occult little brown myotis bat	230.000000	
18540-29-9	LANL ECORISK	Surface Water No Effect ESL	Mountain cottontail	380.000000	
18540-29-9	LANL ECORISK	Surface Water No Effect ESL	Gray fox	430.000000	
18540-29-9	LANL ECORISK	Surface Water Low Effect ESL	Montane shrew	630.000000	
18540-29-9	LANL ECORISK	Surface Water Low Effect ESL	Deer mouse	740.000000	
18540-29-9	LANL ECORISK	Surface Water Low Effect ESL	Occult little brown myotis bat	890.000000	
18540-29-9	LANL ECORISK	Surface Water Low Effect ESL	Mountain cottontail	1400.000000	
18540-29-9	LANL ECORISK	Surface Water Low Effect ESL	Gray fox	1600.000000	
18540-29-9	ORNL	EC20 Sensitive Species	Not specified	0.000266	
18540-29-9	ORNL	EC20 Daphnids	Not specified	0.000500	
18540-29-9	ORNL	SW Lowest Chronic Value – All Organisms	Not specified	0.002000	
18540-29-9	ORNL	SW Lowest Chronic Value – Aquatic Plants	Not specified	0.002000	
18540-29-9	ORNL	SW Lowest Chronic Value – Daphnids	Not specified	0.006130	
18540-29-9	ORNL	EC20 Fish	Not specified	0.051000	
18540-29-9	ORNL	SW Lowest Chronic Value – Fish	Not specified	0.073200	
18540-29-9	ORNL	EC25 Bass Population	Not specified	0.316000	
18540-29-9	Ohio	OMZA	Not specified	0.011000	190
18540-29-9	Ohio	OMZM	Not specified	0.016000	190
18540-29-9	Ohio	IMZM	Not specified	0.031000	190

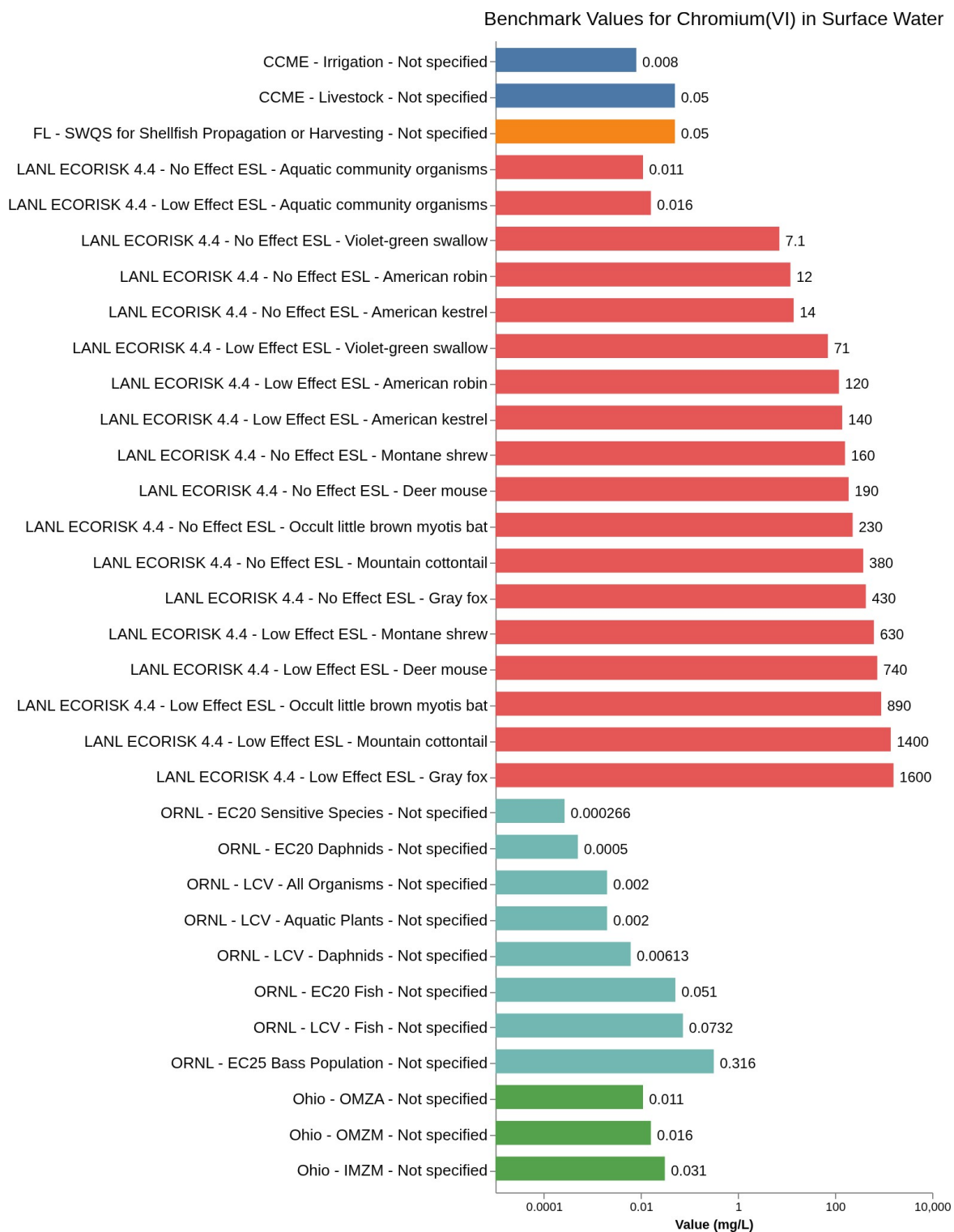


Table 129: Benchmark Values for Chromium, Total in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
7440-47-3	EPA Region 5	EPA RCRA Surface Water	Not specified	0.04200	12
7440-47-3	LANL ECORISK	Surface Water No Effect ESL	Aquatic community organisms	0.01100	
7440-47-3	LANL ECORISK	Surface Water Low Effect ESL	Aquatic community organisms	0.01600	
7440-47-3	LANL ECORISK	Surface Water No Effect ESL	Violet-green swallow	7.10000	
7440-47-3	LANL ECORISK	Surface Water No Effect ESL	American robin	12.00000	
7440-47-3	LANL ECORISK	Surface Water No Effect ESL	American kestrel	14.00000	
7440-47-3	LANL ECORISK	Surface Water Low Effect ESL	Violet-green swallow	71.00000	
7440-47-3	LANL ECORISK	Surface Water Low Effect ESL	American robin	120.00000	
7440-47-3	LANL ECORISK	Surface Water Low Effect ESL	American kestrel	140.00000	
7440-47-3	LANL ECORISK	Surface Water No Effect ESL	Montane shrew	160.00000	
7440-47-3	LANL ECORISK	Surface Water No Effect ESL	Deer mouse	190.00000	
7440-47-3	LANL ECORISK	Surface Water No Effect ESL	Occult little brown myotis bat	230.00000	
7440-47-3	LANL ECORISK	Surface Water No Effect ESL	Mountain cottontail	380.00000	
7440-47-3	LANL ECORISK	Surface Water No Effect ESL	Gray fox	430.00000	
7440-47-3	LANL ECORISK	Surface Water Low Effect ESL	Montane shrew	630.00000	
7440-47-3	LANL ECORISK	Surface Water Low Effect ESL	Deer mouse	740.00000	
7440-47-3	LANL ECORISK	Surface Water Low Effect ESL	Occult little brown myotis bat	890.00000	
7440-47-3	LANL ECORISK	Surface Water Low Effect ESL	Mountain cottontail	1400.00000	
7440-47-3	LANL ECORISK	Surface Water Low Effect ESL	Gray fox	1600.00000	
7440-47-3	ORNL	EC20 Sensitive Species	Not specified	0.00844	
7440-47-3	ORNL	EC20 Fish	Not specified	0.08900	
7440-47-3	ORNL	EC25 Bass Population	Not specified	0.12600	
7440-47-3	ORNL	SW Lowest Chronic Value – Aquatic Plants	Not specified	0.39700	
7440-47-3	Ohio	OMZA	Not specified	0.07400	179, 190
7440-47-3	Ohio	OMZM	Not specified	0.57000	179, 190
7440-47-3	Ohio	IMZM	Not specified	1.10000	179, 190

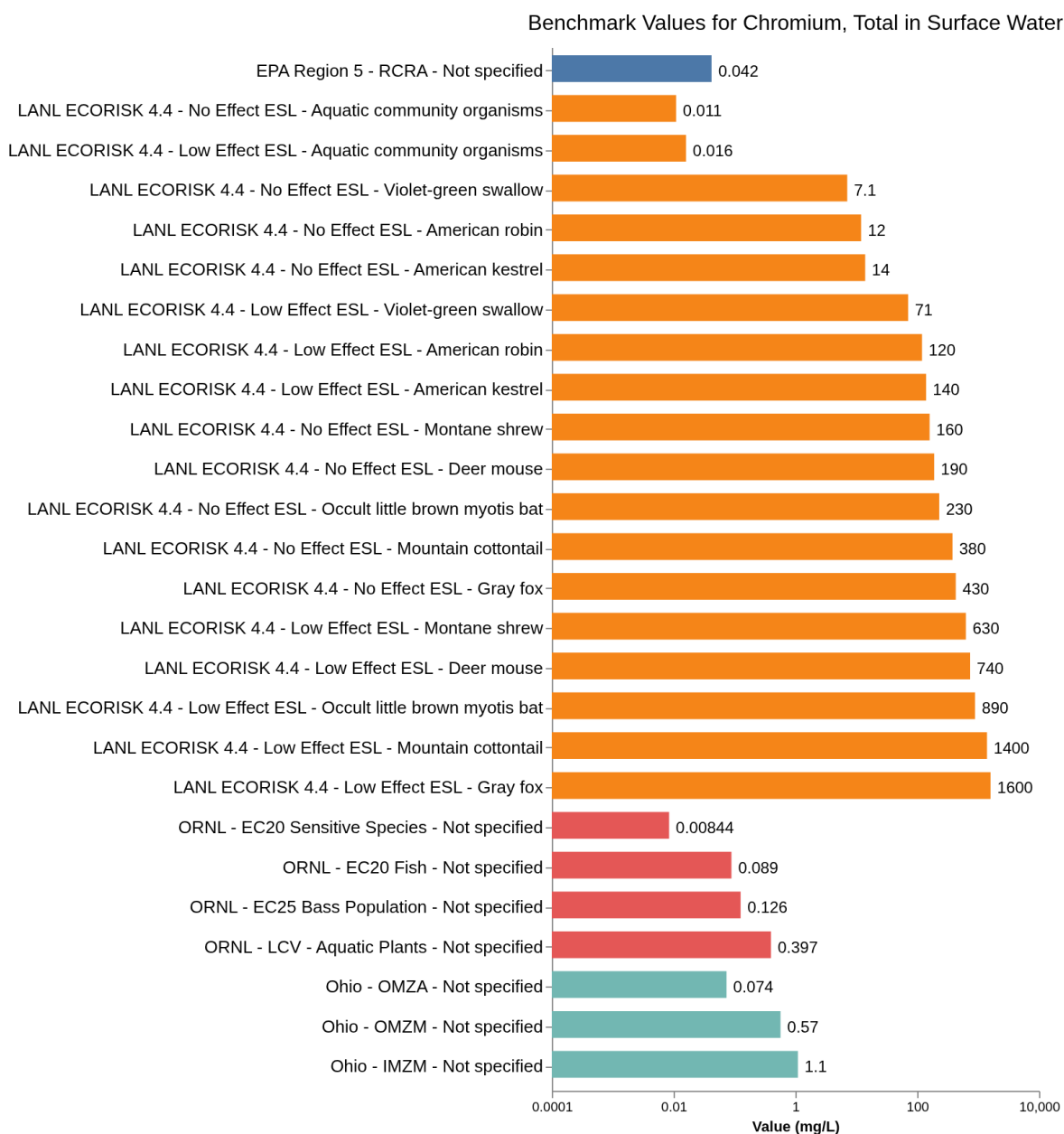


Table 130: Benchmark Values for Chrysene in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
218-01-9	EPA ESBs	Final Chronic Value	Not specified	0.002042
218-01-9	EPA Region 4	Freshwater and Saltwater Chronic for PAHs	Not specified	0.002000
218-01-9	EPA Region 4	Freshwater and Saltwater Acute for PAHs	Not specified	0.004200
218-01-9	LANL ECORISK	Surface Water No Effect ESL	Aquatic community organisms	0.000002
218-01-9	LANL ECORISK	Surface Water Low Effect ESL	Aquatic community organisms	0.000018
218-01-9	LANL ECORISK	Surface Water No Effect ESL	Montane shrew	0.760000
218-01-9	LANL ECORISK	Surface Water No Effect ESL	Deer mouse	0.890000
218-01-9	LANL ECORISK	Surface Water No Effect ESL	Occult little brown myotis bat	1.000000
218-01-9	LANL ECORISK	Surface Water No Effect ESL	Mountain cottontail	1.700000
218-01-9	LANL ECORISK	Surface Water No Effect ESL	Gray fox	1.900000
218-01-9	LANL ECORISK	Surface Water Low Effect ESL	Montane shrew	7.600000
218-01-9	LANL ECORISK	Surface Water Low Effect ESL	Deer mouse	8.900000
218-01-9	LANL ECORISK	Surface Water Low Effect ESL	Occult little brown myotis bat	10.000000
218-01-9	LANL ECORISK	Surface Water Low Effect ESL	Mountain cottontail	17.000000
218-01-9	LANL ECORISK	Surface Water Low Effect ESL	Gray fox	19.000000

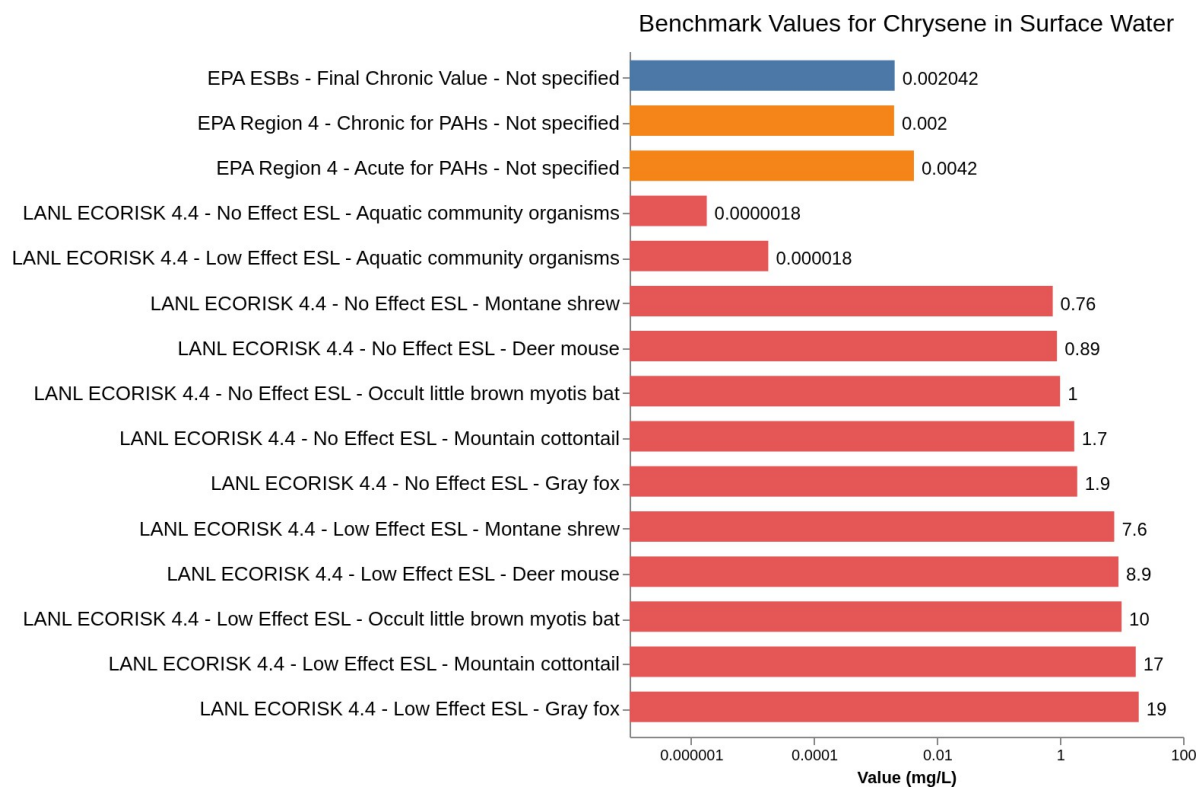


Table 131: Benchmark Values for Cobalt in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
7440-48-4	Canada	Water Irrigation	Not specified	0.05000	
7440-48-4	Canada	Water Livestock	Not specified	1.00000	
7440-48-4	EPA Region 5	EPA RCRA Surface Water	Not specified	0.02400	
7440-48-4	LANL ECORISK	Surface Water No Effect ESL	Aquatic community organisms	0.00300	
7440-48-4	LANL ECORISK	Surface Water Low Effect ESL	Aquatic community organisms	0.03000	
7440-48-4	LANL ECORISK	Surface Water No Effect ESL	Violet-green swallow	0.08200	
7440-48-4	LANL ECORISK	Surface Water No Effect ESL	Montane shrew	0.08900	
7440-48-4	LANL ECORISK	Surface Water No Effect ESL	Deer mouse	0.10000	
7440-48-4	LANL ECORISK	Surface Water No Effect ESL	Occult little brown myotis bat	0.12000	
7440-48-4	LANL ECORISK	Surface Water No Effect ESL	American robin	0.14000	
7440-48-4	LANL ECORISK	Surface Water No Effect ESL	American kestrel	0.16000	
7440-48-4	LANL ECORISK	Surface Water No Effect ESL	Mountain cottontail	0.20000	
7440-48-4	LANL ECORISK	Surface Water No Effect ESL	Gray fox	0.23000	
7440-48-4	LANL ECORISK	Surface Water Low Effect ESL	Violet-green swallow	2.00000	
7440-48-4	LANL ECORISK	Surface Water Low Effect ESL	Montane shrew	2.20000	
7440-48-4	LANL ECORISK	Surface Water Low Effect ESL	Deer mouse	2.60000	
7440-48-4	LANL ECORISK	Surface Water Low Effect ESL	Occult little brown myotis bat	3.10000	
7440-48-4	LANL ECORISK	Surface Water Low Effect ESL	American robin	3.50000	
7440-48-4	LANL ECORISK	Surface Water Low Effect ESL	American kestrel	4.10000	
7440-48-4	LANL ECORISK	Surface Water Low Effect ESL	Mountain cottontail	5.10000	
7440-48-4	LANL ECORISK	Surface Water Low Effect ESL	Gray fox	5.80000	
7440-48-4	ORNL	EC25 Bass Population	Not specified	0.00398	
7440-48-4	ORNL	EC20 Daphnids	Not specified	0.00440	23
7440-48-4	ORNL	SW Lowest Chronic Value – All Organisms	Not specified	0.00510	
7440-48-4	ORNL	SW Lowest Chronic Value – Daphnids	Not specified	0.00510	
7440-48-4	ORNL	Tier II Secondary Chronic Value	Not specified	0.02300	
7440-48-4	ORNL	SW Lowest Chronic Value – Fish	Not specified	0.29000	
7440-48-4	ORNL	EC20 Fish	Not specified	0.81000	
7440-48-4	ORNL	Tier II Secondary Acute Value	Not specified	1.50000	

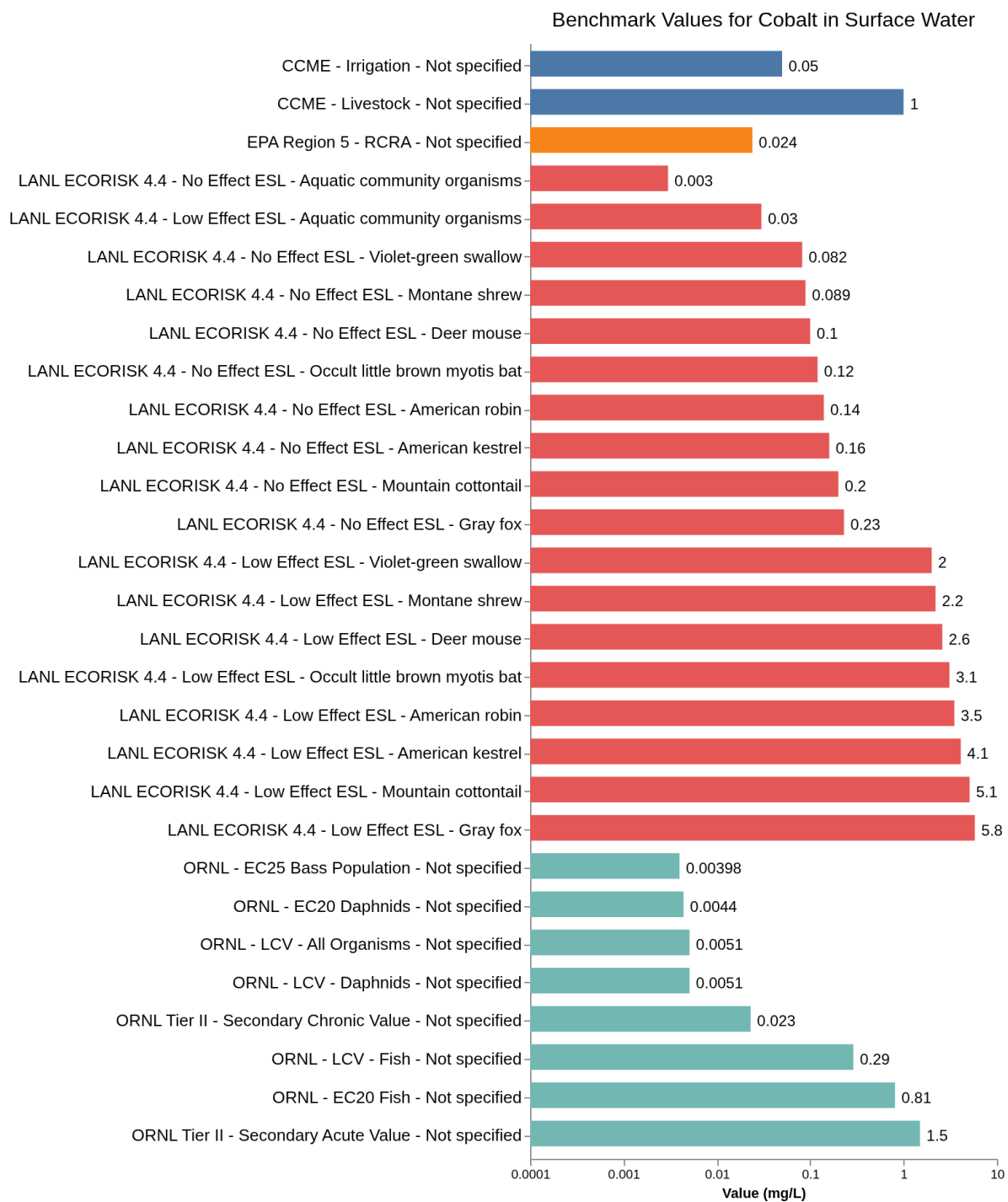


Table 132: Benchmark Values for Copper in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
7440-50-8	British Columbia	Estuarine LTC	Not specified	0.002	
7440-50-8	British Columbia	Estuarine STA	Not specified	0.003	
7440-50-8	British Columbia	Irrigation STA	Not specified	0.2	
7440-50-8	British Columbia	STA	Not specified	0.3	
7440-50-8	British Columbia	Livestock STA	Not specified	0.3	
7440-50-8	Canada	Water Irrigation	Not specified		48
7440-50-8	Canada	Water Livestock	Not specified		53
7440-50-8	EPA Region 5	EPA RCRA Surface Water	Not specified	0.00158	12
7440-50-8	Florida	SWQS for Shellfish Propagation or Harvesting	Not specified	0.0037	
7440-50-8	LANL ECORISK	Surface Water No Effect ESL	Aquatic community organisms	0.005	
7440-50-8	LANL ECORISK	Surface Water Low Effect ESL	Aquatic community organisms	0.007	
7440-50-8	LANL ECORISK	Surface Water No Effect ESL	Violet-green swallow	12	
7440-50-8	LANL ECORISK	Surface Water No Effect ESL	American robin	21	
7440-50-8	LANL ECORISK	Surface Water No Effect ESL	Montane shrew	22	
7440-50-8	LANL ECORISK	Surface Water No Effect ESL	American kestrel	25	
7440-50-8	LANL ECORISK	Surface Water No Effect ESL	Deer mouse	26	
7440-50-8	LANL ECORISK	Surface Water No Effect ESL	Occult little brown myotis bat	32	
7440-50-8	LANL ECORISK	Surface Water Low Effect ESL	Montane shrew	33	
7440-50-8	LANL ECORISK	Surface Water Low Effect ESL	Deer mouse	39	
7440-50-8	LANL ECORISK	Surface Water Low Effect ESL	Occult little brown myotis bat	46	
7440-50-8	LANL ECORISK	Surface Water No Effect ESL	Mountain cottontail	52	
7440-50-8	LANL ECORISK	Surface Water No Effect ESL	Gray fox	59	
7440-50-8	LANL ECORISK	Surface Water Low Effect ESL	Mountain cottontail	76	
7440-50-8	LANL ECORISK	Surface Water Low Effect ESL	Gray fox	86	
7440-50-8	LANL ECORISK	Surface Water Low Effect ESL	Violet-green swallow	130	
7440-50-8	LANL ECORISK	Surface Water Low Effect ESL	American robin	220	
7440-50-8	LANL ECORISK	Surface Water Low Effect ESL	American kestrel	260	
7440-50-8	ORNL	EC20 Daphnids	Not specified	0.000205	
7440-50-8	ORNL	SW Lowest Chronic Value – Daphnids	Not specified	0.00023	
7440-50-8	ORNL	SW Lowest Chronic Value – All Organisms	Not specified	0.00023	
7440-50-8	ORNL	EC20 Sensitive Species	Not specified	0.00026	
7440-50-8	ORNL	SW Lowest Chronic Value – Aquatic Plants	Not specified	0.001	
7440-50-8	ORNL	SW Lowest Chronic Value – Fish	Not specified	0.0038	
7440-50-8	ORNL	EC20 Fish	Not specified	0.005	
7440-50-8	ORNL	SW Lowest Chronic Value – Non-Daphnid Inverts	Not specified	0.00607	
7440-50-8	ORNL	EC25 Bass Population	Not specified	0.0086	
7440-50-8	Ohio	OMZA	Not specified	0.009	185, 190
7440-50-8	Ohio	OMZM	Not specified	0.013	185, 190
7440-50-8	Ohio	IMZM	Not specified	0.027	185, 190

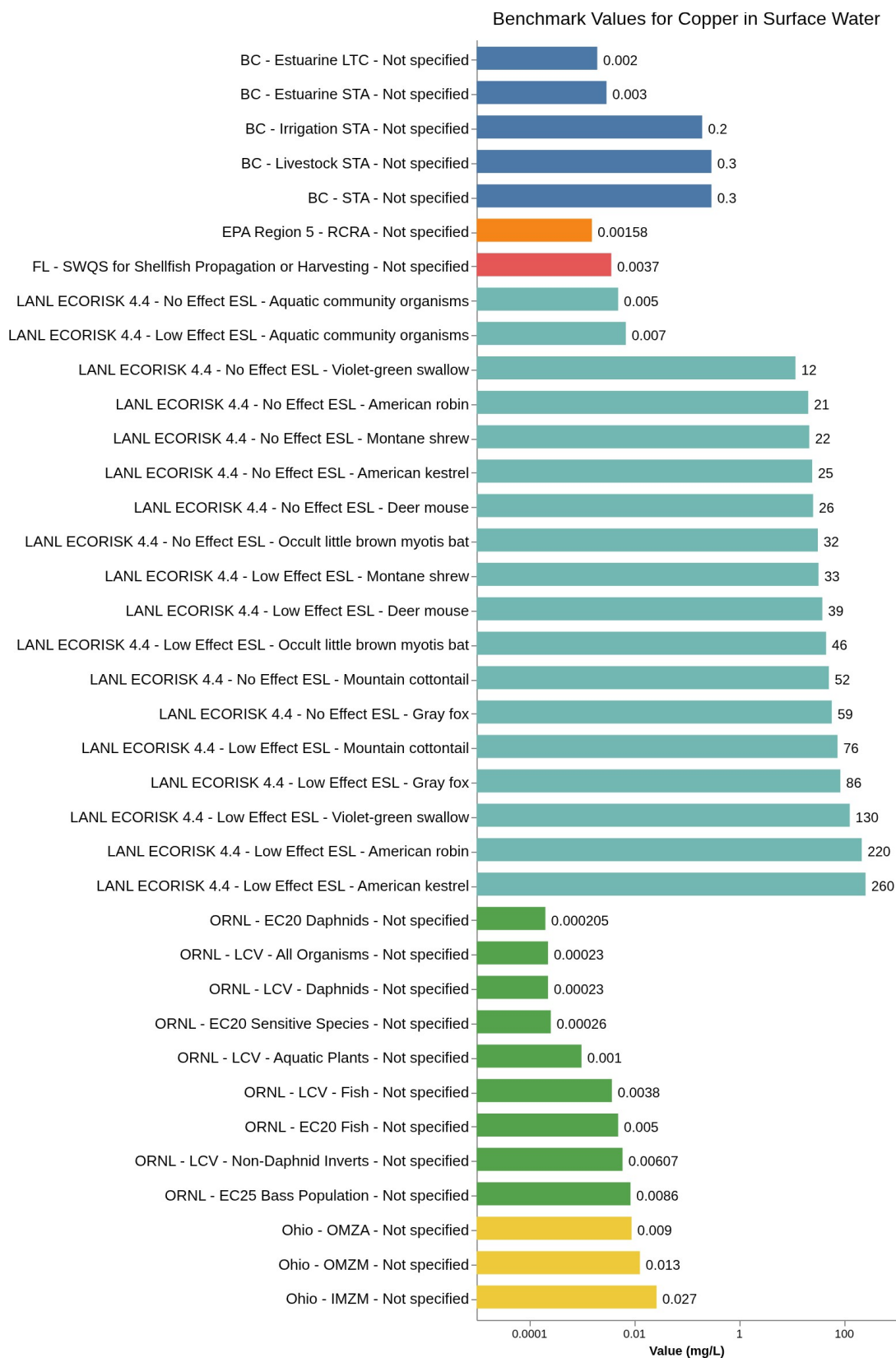


Table 133: Benchmark Values for Coronene in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
191-07-1	EPA ESBs	Final Chronic Value	Not specified	0.00021

Benchmark Values for Coronene in Surface Water

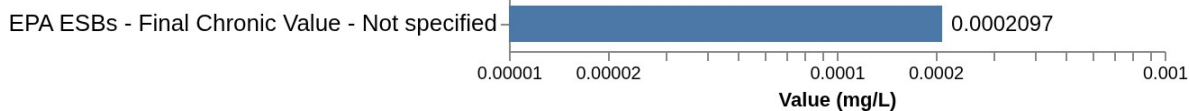


Table 134: Benchmark Values for Coumaphos in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
56-72-4	Florida	Freshwater and Marine Water Contaminant Cleanup	Not specified	0.000004

Benchmark Values for Coumaphos in Surface Water

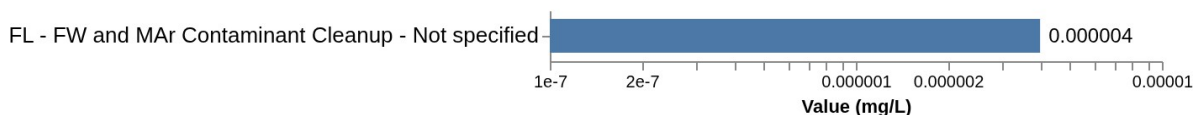


Table 135: Benchmark Values for Cresol, m- in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
108-39-4	EPA Region 5	EPA RCRA Surface Water	Not specified	0.062
108-39-4	Florida	Freshwater and Marine Water Contaminant Cleanup	Not specified	0.450
108-39-4	Illinois	Chronic – General Use	Not specified	0.130
108-39-4	Illinois	Acute – General Use	Not specified	1.600

Benchmark Values for Cresol, m- in Surface Water

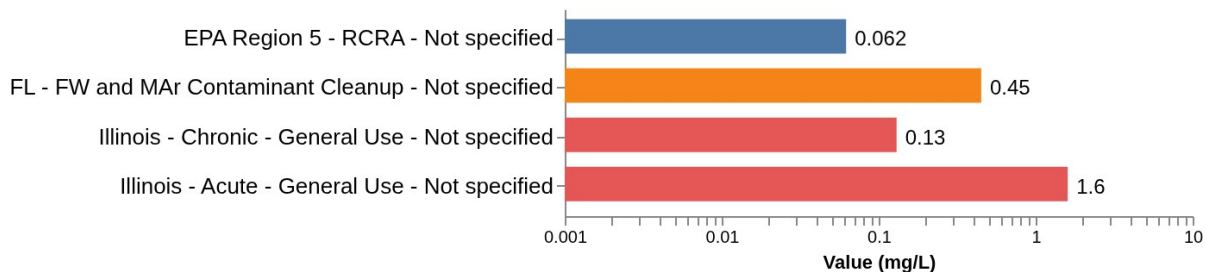


Table 136: Benchmark Values for Cresol, o- in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
95-48-7	EPA Region 5	EPA RCRA Surface Water	Not specified	0.067	
95-48-7	Florida	Freshwater and Marine Water Contaminant Cleanup	Not specified	0.250	
95-48-7	Illinois	Chronic – General Use	Not specified	0.370	
95-48-7	Illinois	Acute – General Use	Not specified	4.700	
95-48-7	ORNL	Tier II Secondary Chronic Value	Not specified	0.013	
95-48-7	ORNL	EC25 Bass Population	Not specified	0.074	
95-48-7	ORNL	Tier II Secondary Acute Value	Not specified	0.230	
95-48-7	ORNL	EC20 Fish	Not specified	0.470	29
95-48-7	ORNL	SW Lowest Chronic Value – Fish	Not specified	0.489	
95-48-7	ORNL	SW Lowest Chronic Value – Daphnids	Not specified	1.320	24

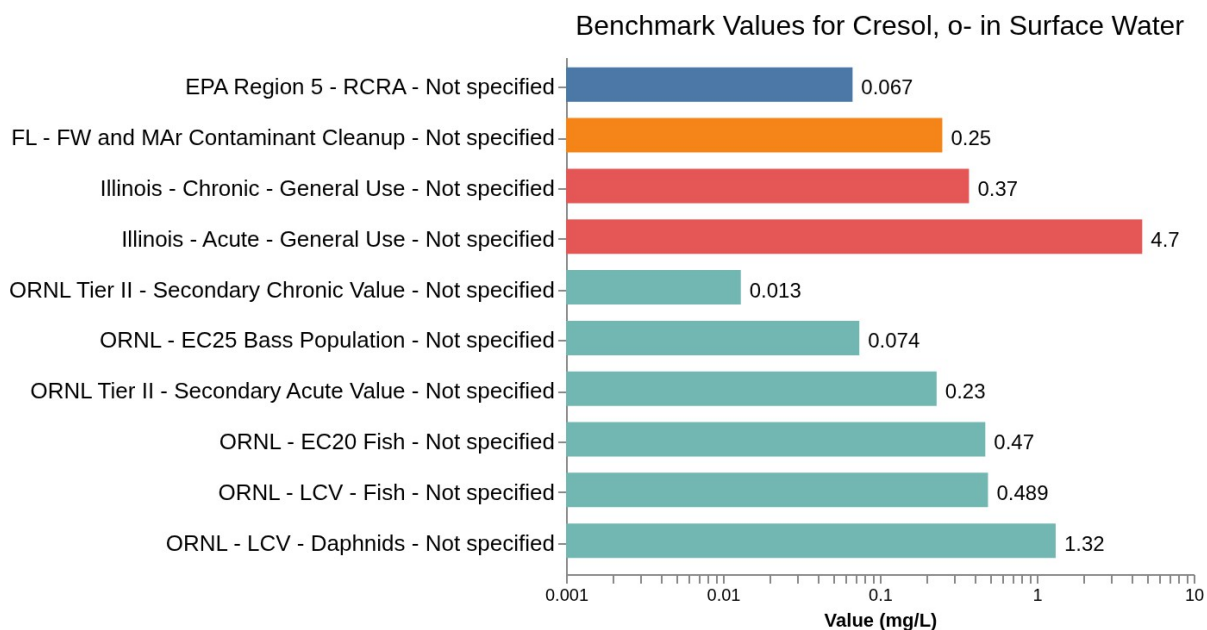


Table 137: Benchmark Values for Cresol, p- in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
106-44-5	EPA Region 5	EPA RCRA Surface Water	Not specified	0.025
106-44-5	Florida	Freshwater and Marine Water Contaminant Cleanup	Not specified	0.070
106-44-5	Illinois	Chronic – General Use	Not specified	0.120
106-44-5	Illinois	Acute – General Use	Not specified	0.670

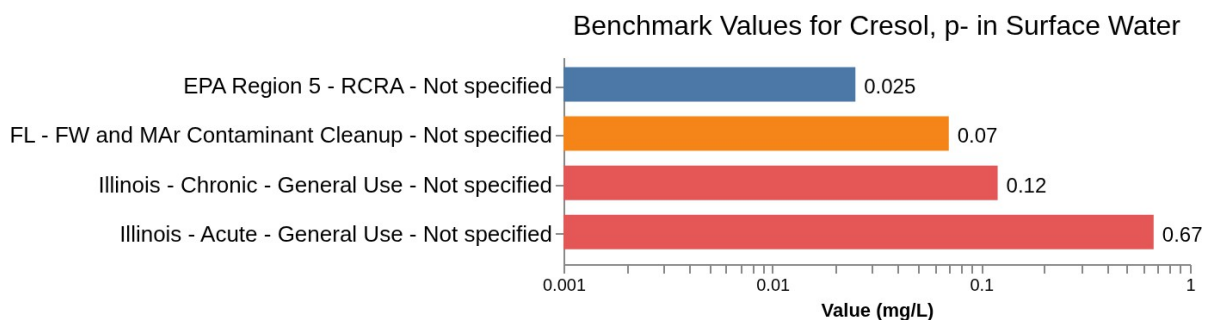


Table 138: Benchmark Values for Cresol, p-chloro-m- in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
59-50-7	EPA Region 5	EPA RCRA Surface Water	Not specified	0.0348
59-50-7	Florida	Freshwater and Marine Water Contaminant Cleanup	Not specified	0.1000
59-50-7	Illinois	Chronic – General Use	Not specified	0.0250
59-50-7	Illinois	Acute – General Use	Not specified	0.3100

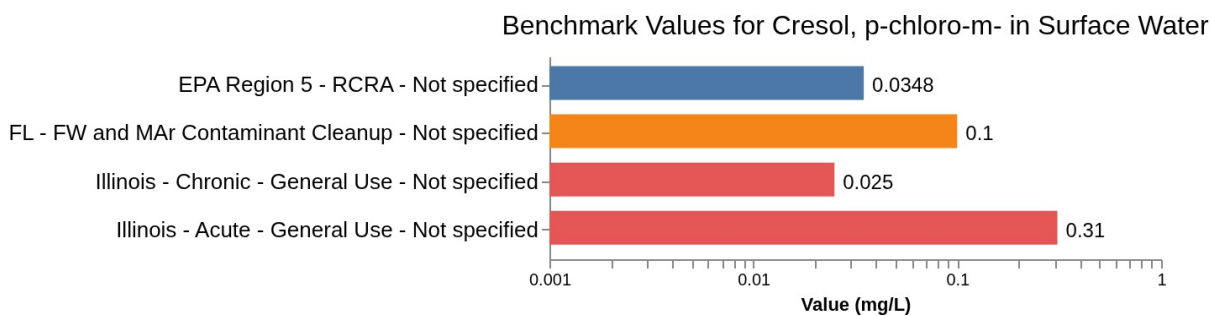


Table 139: Benchmark Values for Cresols in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
1319-77-3	ORNL	Tier II Secondary Chronic Value	Not specified	0.013
1319-77-3	ORNL	Tier II Secondary Acute Value	Not specified	0.230

Benchmark Values for Cresols in Surface Water

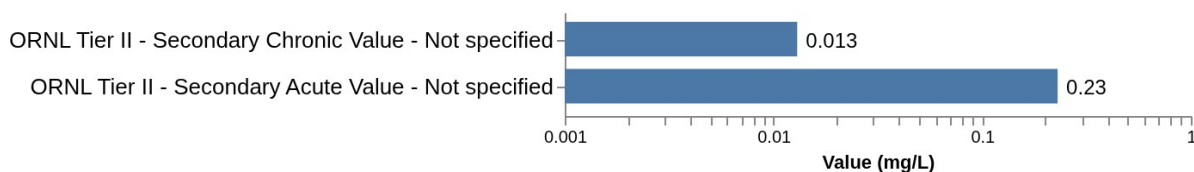


Table 140: Benchmark Values for Cumene in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
98-82-8	EPA Region 4	Freshwater and Saltwater Chronic Narcotic MOA	Not specified	0.098
98-82-8	EPA Region 4	Freshwater and Saltwater Acute, Narcotic MOA	Not specified	0.547
98-82-8	Florida	Freshwater and Marine Water Contaminant Cleanup	Not specified	0.260

Benchmark Values for Cumene in Surface Water

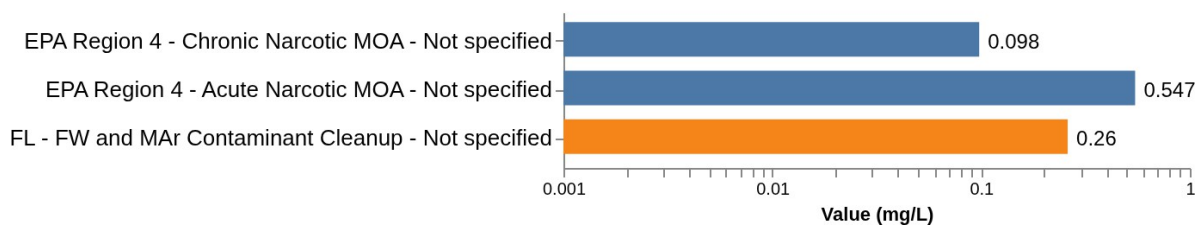


Table 141: Benchmark Values for Cyanazine in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
21725-46-2	Canada	Water Irrigation	Not specified	0.0005
21725-46-2	Canada	Water Livestock	Not specified	0.0100
21725-46-2	Florida	Freshwater and Marine Water Contaminant Cleanup	Not specified	0.0055
21725-46-2	Illinois	Chronic – General Use	Not specified	0.0300
21725-46-2	Illinois	Acute – General Use	Not specified	0.3700

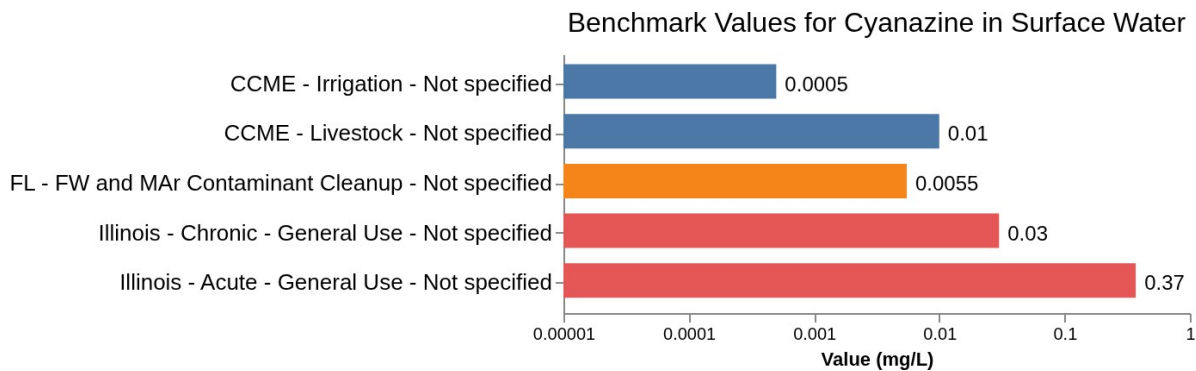


Table 142: Benchmark Values for Cyanide (CN-) in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
57-12-5	EPA Region 5	EPA RCRA Surface Water	Not specified	0.00520
57-12-5	Florida	SWQS for Shellfish Propagation or Harvesting	Not specified	0.00100
57-12-5	ORNL	EC20 Sensitive Species	Not specified	0.00117
57-12-5	ORNL	EC20 Fish	Not specified	0.00530
57-12-5	ORNL	SW Lowest Chronic Value – Fish	Not specified	0.00780
57-12-5	ORNL	SW Lowest Chronic Value – All Organisms	Not specified	0.00780
57-12-5	ORNL	EC25 Bass Population	Not specified	0.01100
57-12-5	ORNL	SW Lowest Chronic Value – Non-Daphnid Inverts	Not specified	0.01830
57-12-5	ORNL	SW Lowest Chronic Value – Aquatic Plants	Not specified	0.03000

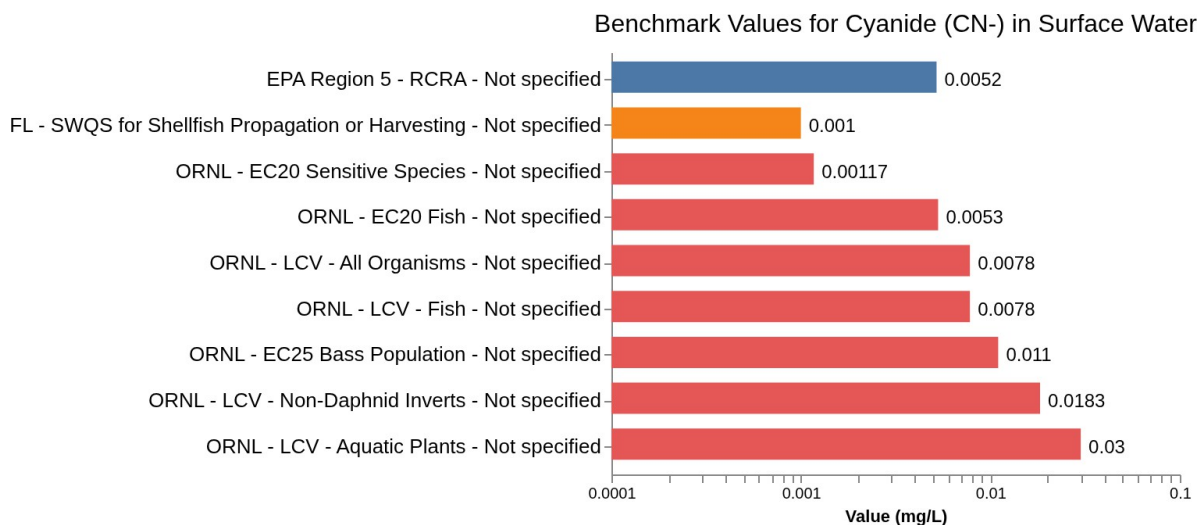


Table 143: Benchmark Values for Cyanide (total complex) in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
000000-05-9	LANL ECORISK	Surface Water No Effect ESL	Aquatic community organisms	0.0052	
000000-05-9	LANL ECORISK	Surface Water Low Effect ESL	Aquatic community organisms	0.0220	
000000-05-9	LANL ECORISK	Surface Water No Effect ESL	Violet-green swallow	0.1600	
000000-05-9	LANL ECORISK	Surface Water No Effect ESL	American robin	0.2800	
000000-05-9	LANL ECORISK	Surface Water No Effect ESL	American kestrel	0.3300	
000000-05-9	LANL ECORISK	Surface Water Low Effect ESL	Violet-green swallow	1.6000	
000000-05-9	LANL ECORISK	Surface Water Low Effect ESL	American robin	2.8000	
000000-05-9	LANL ECORISK	Surface Water Low Effect ESL	American kestrel	3.3000	
000000-05-9	LANL ECORISK	Surface Water No Effect ESL	Montane shrew	300.0000	
000000-05-9	LANL ECORISK	Surface Water No Effect ESL	Deer mouse	360.0000	
000000-05-9	LANL ECORISK	Surface Water No Effect ESL	Occult little brown myotis bat	430.0000	
000000-05-9	LANL ECORISK	Surface Water No Effect ESL	Mountain cottontail	700.0000	
000000-05-9	LANL ECORISK	Surface Water No Effect ESL	Gray fox	790.0000	
000000-05-9	LANL ECORISK	Surface Water Low Effect ESL	Montane shrew	3000.0000	
000000-05-9	LANL ECORISK	Surface Water Low Effect ESL	Deer mouse	3600.0000	
000000-05-9	LANL ECORISK	Surface Water Low Effect ESL	Occult little brown myotis bat	4300.0000	
000000-05-9	LANL ECORISK	Surface Water Low Effect ESL	Mountain cottontail	7000.0000	
000000-05-9	LANL ECORISK	Surface Water Low Effect ESL	Gray fox	7900.0000	
000000-05-9	Ohio	OMZA Lake Erie Drainage Basin	Not specified	0.0052	194
000000-05-9	Ohio	OMZA Seasonal Salmonid Habitat	Not specified	0.0052	173, 194
000000-05-9	Ohio	OMZA Warm Water Habitat	Not specified	0.0120	172, 194
000000-05-9	Ohio	OMZM Lake Erie Drainage Basin	Not specified	0.0220	194
000000-05-9	Ohio	OMZM Seasonal Salmonid Habitat	Not specified	0.0220	173, 194
000000-05-9	Ohio	IMZM Lake Erie Drainage Basin	Not specified	0.0440	194
000000-05-9	Ohio	IMZM Seasonal Salmonid Habitat	Not specified	0.0450	173, 194
000000-05-9	Ohio	OMZM Limited Resource Water	Not specified	0.0460	194
000000-05-9	Ohio	OMZM Warm and Extreme Warm Water Habitats	Not specified	0.0460	172, 194
000000-05-9	Ohio	IMZM Warm Water Habitat	Not specified	0.0920	172, 194
000000-05-9	Ohio	IMZM Limited Resource Water	Not specified	0.0920	194

Benchmark Values for Cyanide (total complex) in Surface Water

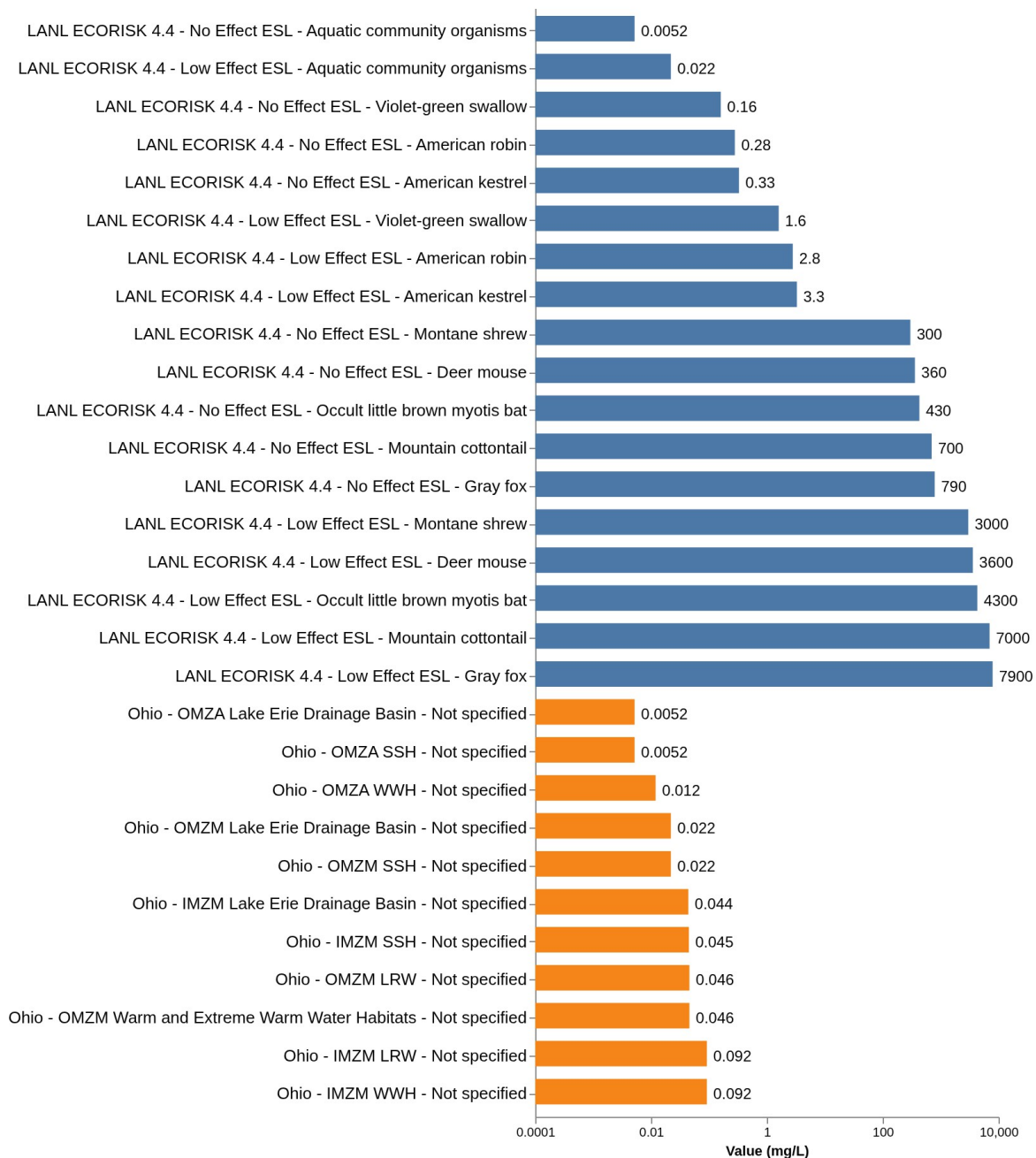


Table 144: Benchmark Values for Cyanogen Chloride in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
506-77-4	Florida	Freshwater and Marine Water Contaminant Cleanup	Not specified	0.0014

Benchmark Values for Cyanogen Chloride in Surface Water

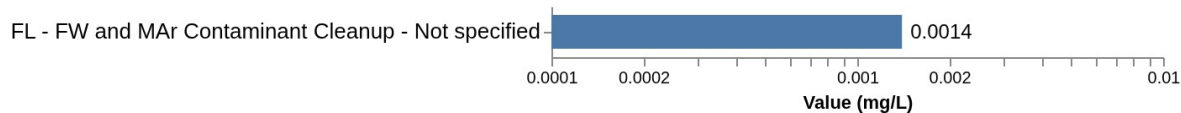


Table 145: Benchmark Values for Cycloate in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
1134-23-2	Florida	Freshwater and Marine Water Contaminant Cleanup	Not specified	0.13

Benchmark Values for Cycloate in Surface Water

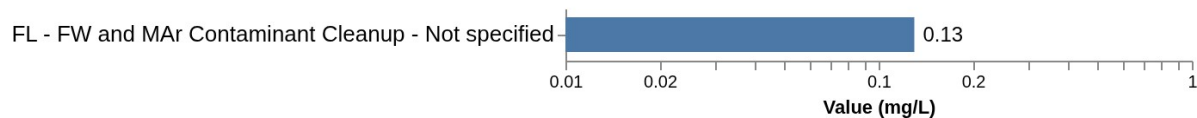


Table 146: Benchmark Values for Cyclohexanone in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
108-94-1	Florida	Freshwater and Marine Water Contaminant Cleanup	Not specified	26.0

Benchmark Values for Cyclohexanone in Surface Water

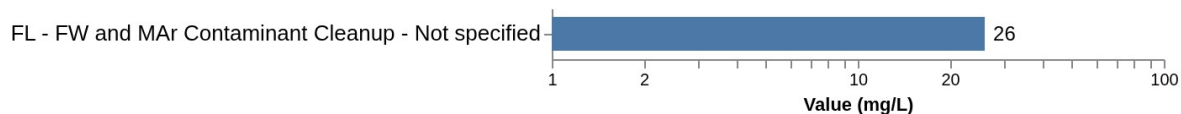


Table 147: Benchmark Values for Cyclohexylamine in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
108-91-8	Florida	Freshwater and Marine Water Contaminant Cleanup	Not specified	4.00	
108-91-8	Illinois	Chronic – General Use	Not specified	0.49	195
108-91-8	Illinois	Acute – General Use	Not specified	6.10	195

Benchmark Values for Cyclohexylamine in Surface Water

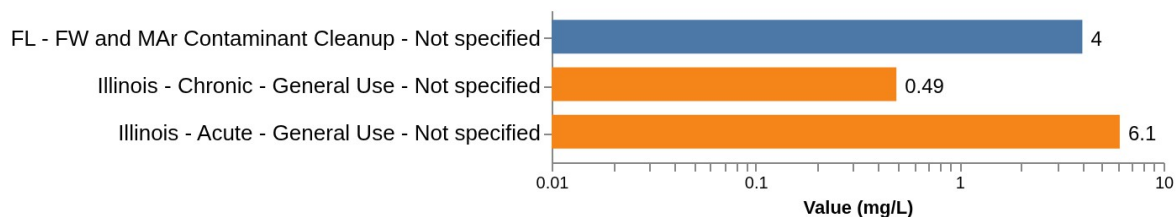


Table 148: Benchmark Values for Cypermethrin in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
52315-07-8	Florida	Freshwater and Marine Water Contaminant Cleanup	Not specified	5.000000e-07

Benchmark Values for Cypermethrin in Surface Water

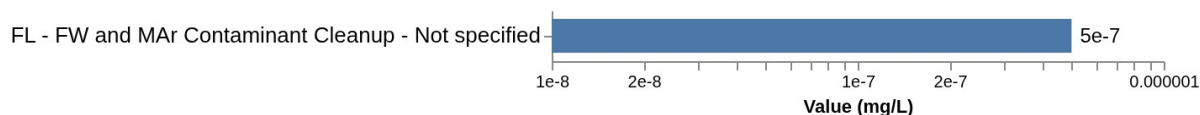


Table 149: Benchmark Values for Dalapon in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
75-99-0	Florida	Freshwater and Marine Water Contaminant Cleanup	Not specified	5.0

Benchmark Values for Dalapon in Surface Water

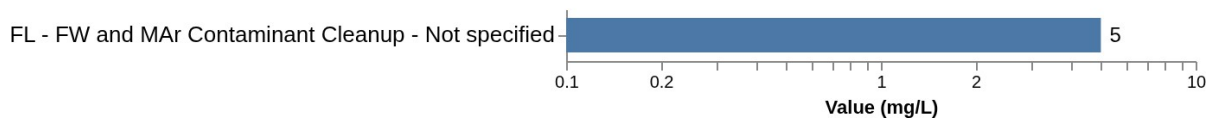


Table 150: Benchmark Values for Decane in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
124-18-5	ORNL	Tier II Secondary Chronic Value	Not specified	0.049	
124-18-5	ORNL	Tier II Secondary Acute Value	Not specified	0.880	
124-18-5	ORNL	SW Lowest Chronic Value – Daphnids	Not specified	7.870	24
124-18-5	ORNL	SW Lowest Chronic Value – All Organisms	Not specified	7.874	24

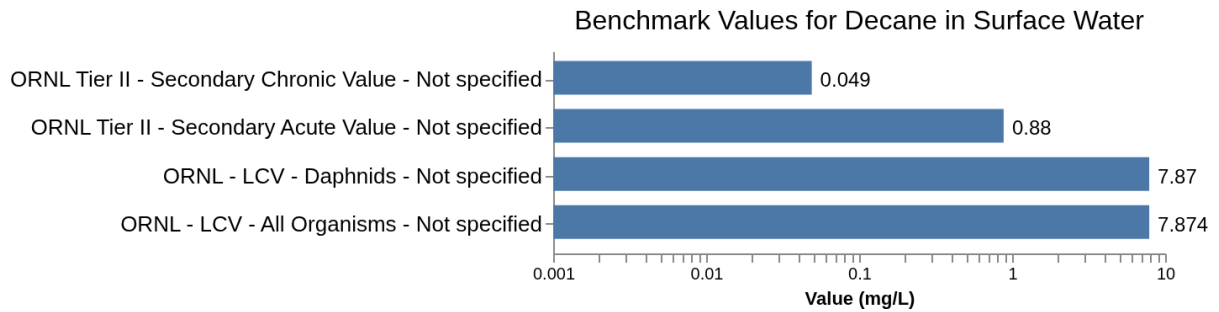


Table 151: Benchmark Values for Deltamethrin in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
52918-63-5	Canada	Water Livestock	Not specified	0.0025

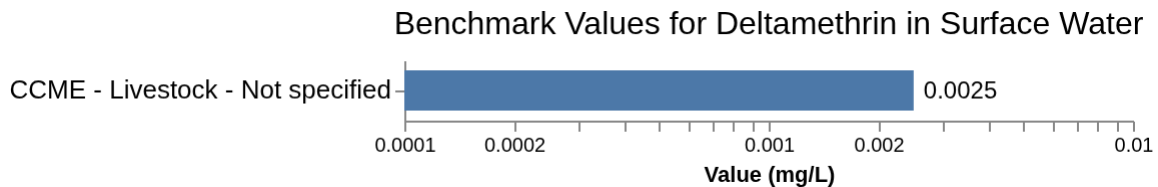


Table 152: Benchmark Values for Demeton in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
8065-48-3	Florida	SWQS for Shellfish Propagation or Harvesting	Not specified	0.0001	
8065-48-3	Illinois	Chronic – General Use	Not specified	0.0001	196

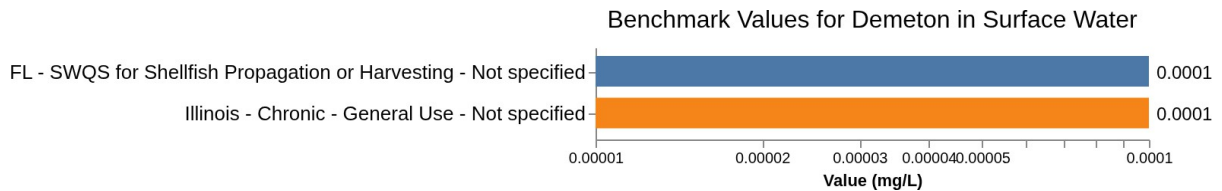


Table 153: Benchmark Values for Di(2-ethylhexyl)adipate in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
103-23-1	Florida	Freshwater and Marine Water Contaminant Cleanup	Not specified	0.033

Benchmark Values for Di(2-ethylhexyl)adipate in Surface Water

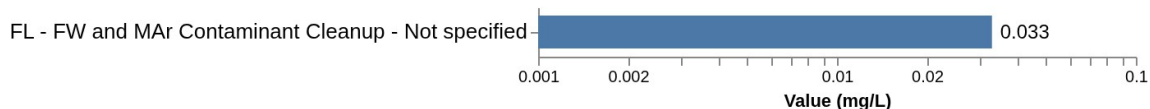


Table 154: Benchmark Values for Diazinon in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
333-41-5	Florida	Freshwater and Marine Water Contaminant Cleanup	Not specified	0.000002	
333-41-5	Florida	SWQS for Shellfish Propagation or Harvesting	Not specified	0.000820	
333-41-5	Illinois	Acute – General Use	Not specified	0.000050	196, 197
333-41-5	ORNL	Tier II Secondary Chronic Value	Not specified	0.000043	
333-41-5	ORNL	Tier II Secondary Acute Value	Not specified	0.000170	

Benchmark Values for Diazinon in Surface Water

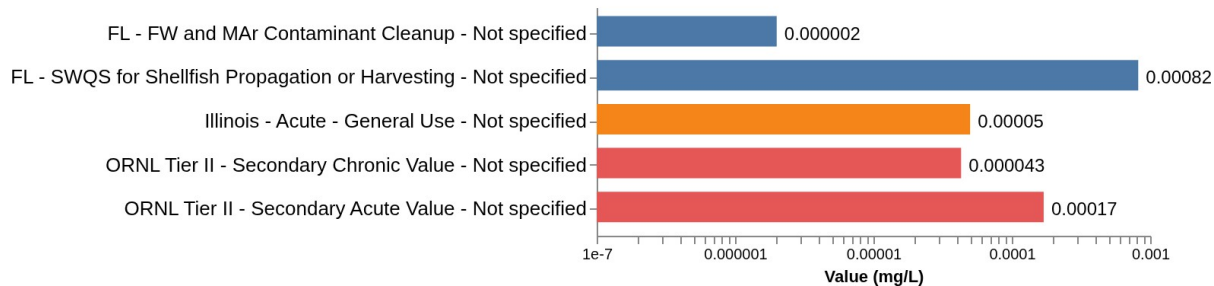


Table 155: Benchmark Values for Dibenz[a,c]anthracene in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
215-58-7	EPA ESBs	Final Chronic Value	Not specified	0.000244

Benchmark Values for Dibenz[a,c]anthracene in Surface Water

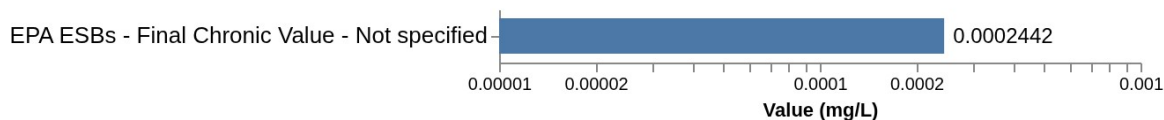


Table 156: Benchmark Values for Dibenz[a,h]anthracene in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
53-70-3	EPA ESBs	Final Chronic Value	Not specified	0.000282	
53-70-3	EPA Region 4	Freshwater and Saltwater Chronic for PAHs	Not specified	0.000280	7
53-70-3	EPA Region 4	Freshwater and Saltwater Acute for PAHs	Not specified	0.000590	7
53-70-3	LANL ECORISK	Surface Water No Effect ESL	Aquatic community organisms	0.000003	
53-70-3	LANL ECORISK	Surface Water Low Effect ESL	Aquatic community organisms	0.000034	
53-70-3	LANL ECORISK	Surface Water No Effect ESL	Montane shrew	5.900000	
53-70-3	LANL ECORISK	Surface Water No Effect ESL	Deer mouse	7.000000	
53-70-3	LANL ECORISK	Surface Water No Effect ESL	Occult little brown myotis bat	8.300000	
53-70-3	LANL ECORISK	Surface Water No Effect ESL	Mountain cottontail	13.000000	
53-70-3	LANL ECORISK	Surface Water No Effect ESL	Gray fox	15.000000	
53-70-3	LANL ECORISK	Surface Water Low Effect ESL	Montane shrew	59.000000	
53-70-3	LANL ECORISK	Surface Water Low Effect ESL	Deer mouse	70.000000	
53-70-3	LANL ECORISK	Surface Water Low Effect ESL	Occult little brown myotis bat	83.000000	
53-70-3	LANL ECORISK	Surface Water Low Effect ESL	Mountain cottontail	130.000000	
53-70-3	LANL ECORISK	Surface Water Low Effect ESL	Gray fox	150.000000	

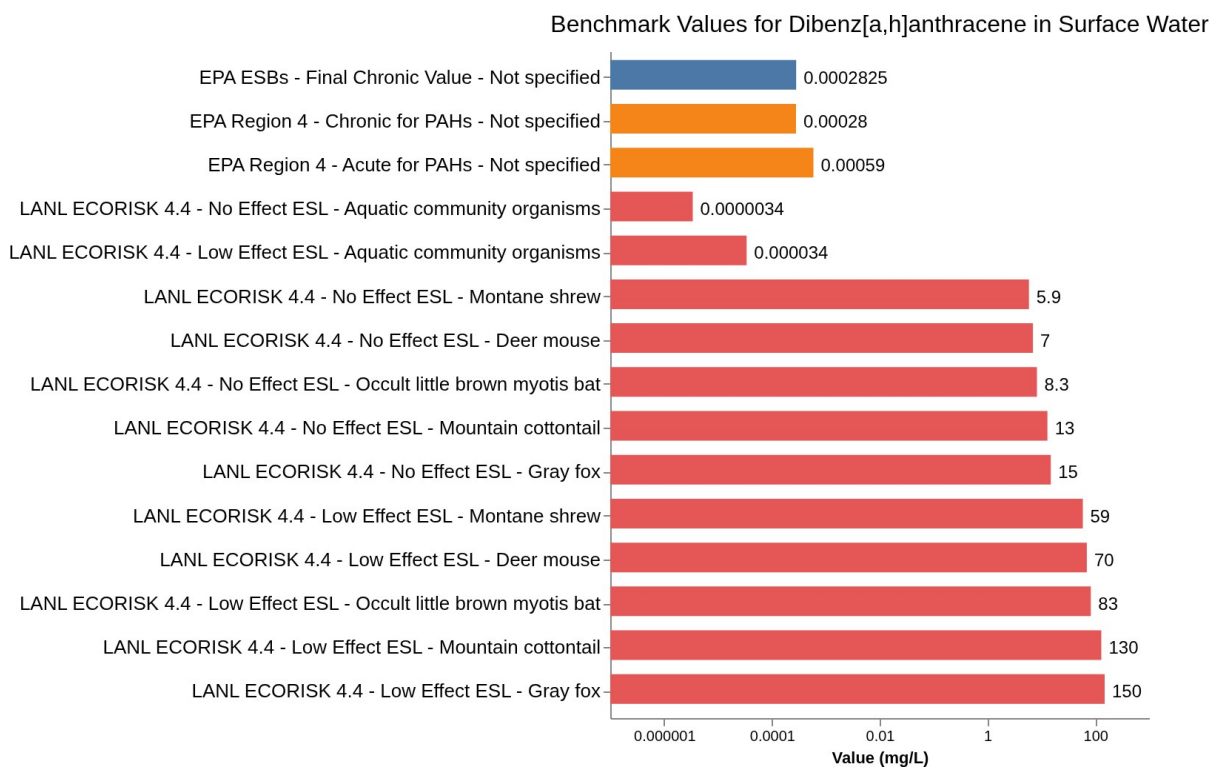


Table 157: Benchmark Values for Dibenzo[a,h]anthracenes, C1- in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
000000-17-7	EPA ESBs	Final Chronic Value	Not specified	0.000124	

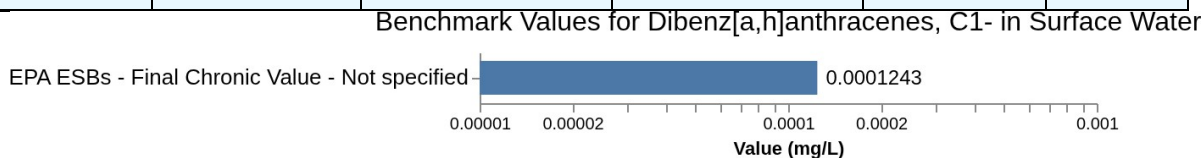


Table 158: Benchmark Values for Dibenzo[a,h]anthracenes, C2- in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
000000-17-8	EPA ESBs	Final Chronic Value	Not specified	0.000055

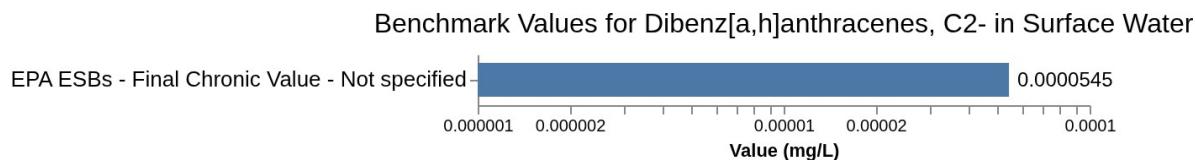


Table 159: Benchmark Values for Dibenz[a,h]anthracenes, C3– in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
000000–17–9	EPA ESBs	Final Chronic Value	Not specified	0.000024

Benchmark Values for Dibenz[a,h]anthracenes, C3- in Surface Water

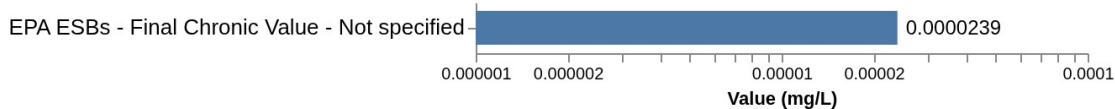


Table 160: Benchmark Values for Dibenz[a,j]anthracene in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
224–41–9	EPA ESBs	Final Chronic Value	Not specified	0.000282

Benchmark Values for Dibenz[a,j]anthracene in Surface Water

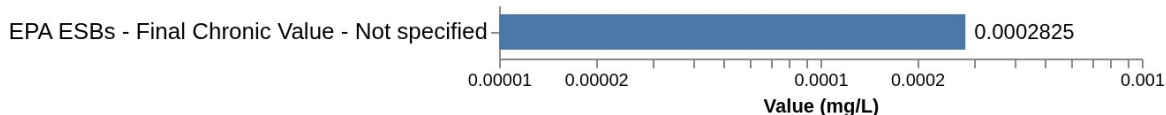


Table 161: Benchmark Values for Dibenzofuran in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
132–64–9	EPA Region 4	Freshwater and Saltwater Chronic Narcotic MOA	Not specified	0.0610	
132–64–9	EPA Region 4	Freshwater and Saltwater Acute, Narcotic MOA	Not specified	0.2420	
132–64–9	EPA Region 5	EPA RCRA Surface Water	Not specified	0.0040	
132–64–9	Florida	Freshwater and Marine Water Contaminant Cleanup	Not specified	0.0670	
132–64–9	Illinois	Chronic – General Use	Not specified	0.0150	
132–64–9	Illinois	Acute – General Use	Not specified	0.1900	
132–64–9	LANL ECORISK	Surface Water No Effect ESL	Aquatic community organisms	0.0037	
132–64–9	LANL ECORISK	Surface Water Low Effect ESL	Aquatic community organisms	0.0370	
132–64–9	ORNL	Tier II Secondary Chronic Value	Not specified	0.0037	
132–64–9	ORNL	Tier II Secondary Acute Value	Not specified	0.0660	
132–64–9	ORNL	SW Lowest Chronic Value – Daphnids	Not specified	1.0000	24
132–64–9	ORNL	SW Lowest Chronic Value – All Organisms	Not specified	1.0030	24

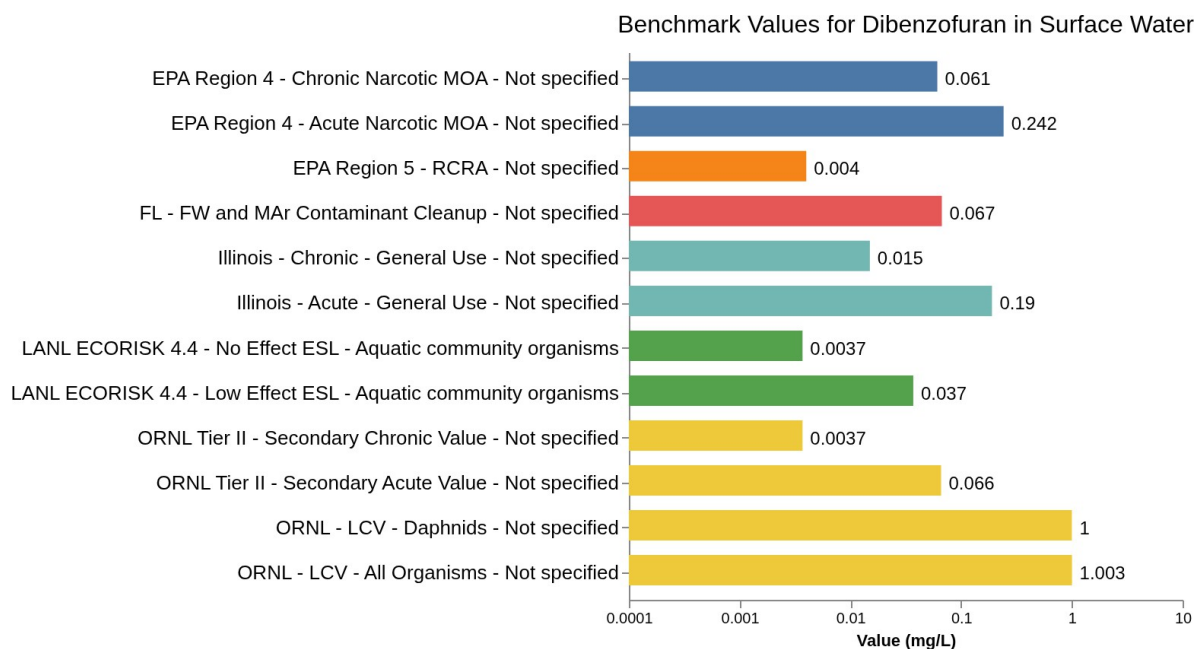


Table 162: Benchmark Values for Dibenzothiophene in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
132-65-0	EPA Region 4	Freshwater and Saltwater Chronic for PAHs	Not specified	0.048
132-65-0	EPA Region 4	Freshwater and Saltwater Acute for PAHs	Not specified	0.100

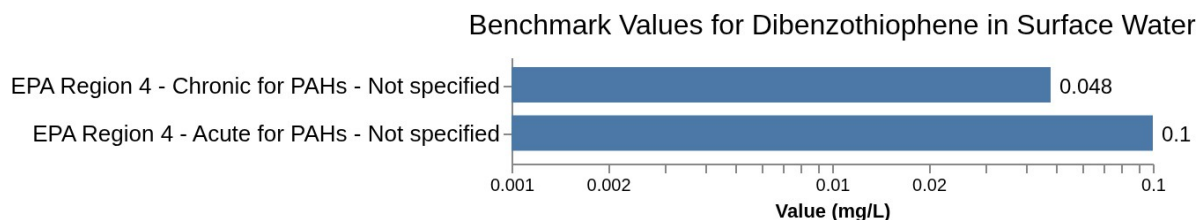


Table 163: Benchmark Values for Dibenzothiophenes, C1- in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
000000-13-5	EPA Region 4	Freshwater and Saltwater Chronic for PAHs	Not specified	0.016
000000-13-5	EPA Region 4	Freshwater and Saltwater Acute for PAHs	Not specified	0.033

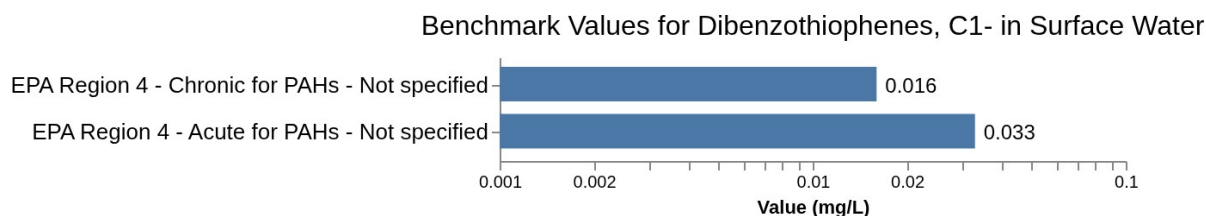


Table 164: Benchmark Values for Dibenzothiophenes, C2- in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
000000-13-6	EPA Region 4	Freshwater and Saltwater Chronic for PAHs	Not specified	0.0051
000000-13-6	EPA Region 4	Freshwater and Saltwater Acute for PAHs	Not specified	0.0110

Benchmark Values for Dibenzothiophenes, C2- in Surface Water

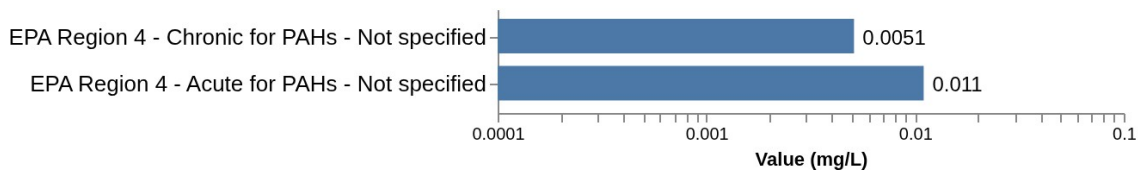


Table 165: Benchmark Values for Dibenzothiophenes, C3- in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
000000-13-7	EPA Region 4	Freshwater and Saltwater Chronic for PAHs	Not specified	0.0017
000000-13-7	EPA Region 4	Freshwater and Saltwater Acute for PAHs	Not specified	0.0034

Benchmark Values for Dibenzothiophenes, C3- in Surface Water

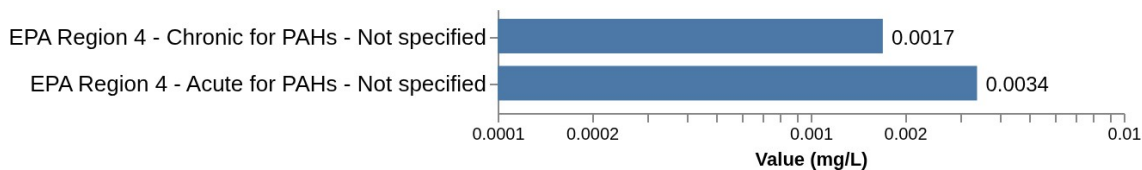


Table 166: Benchmark Values for Dibenzothiophenes, C4- in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
000000-13-8	EPA Region 4	Freshwater and Saltwater Chronic for PAHs	Not specified	0.0005
000000-13-8	EPA Region 4	Freshwater and Saltwater Acute for PAHs	Not specified	0.0011

Benchmark Values for Dibenzothiophenes, C4- in Surface Water

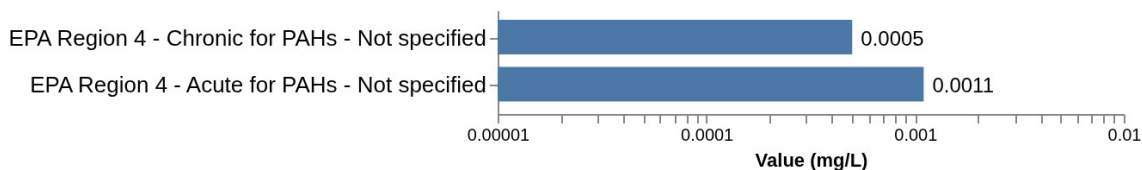


Table 167: Benchmark Values for Dibromo-3-chloropropane, 1,2- in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
96-12-8	Illinois	Chronic - General Use	Not specified	0.19	195
96-12-8	Illinois	Acute - General Use	Not specified	2.40	195

Benchmark Values for Dibromo-3-chloropropane, 1,2- in Surface Water

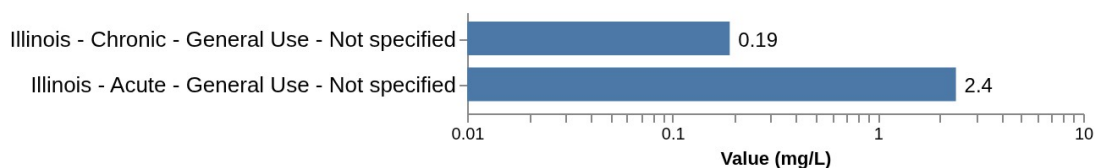


Table 168: Benchmark Values for Dibromochloromethane in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
124-48-1	Canada	Water Livestock	Not specified	0.1

Benchmark Values for Dibromochloromethane in Surface Water



Table 169: Benchmark Values for Dibromoethane, 1,2- in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
106-93-4	Florida	Freshwater and Marine Water Contaminant Cleanup	Not specified	0.013

Benchmark Values for Dibromoethane, 1,2- in Surface Water

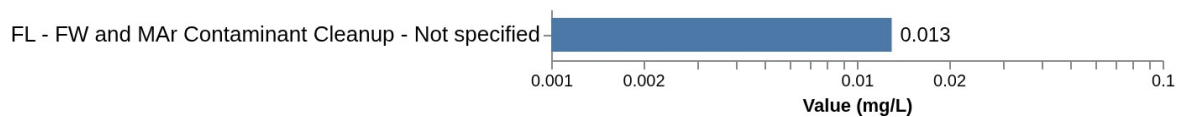


Table 170: Benchmark Values for Dibutyl Phthalate in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
84-74-2	EPA Region 4	Freshwater and Saltwater Chronic Narcotic MOA	Not specified	0.0270
84-74-2	EPA Region 4	Freshwater and Saltwater Acute, Narcotic MOA	Not specified	0.1020
84-74-2	EPA Region 5	EPA RCRA Surface Water	Not specified	0.0097
84-74-2	Florida	Freshwater and Marine Water Contaminant Cleanup	Not specified	0.0230
84-74-2	Illinois	Chronic – General Use	Not specified	0.0480
84-74-2	Illinois	Acute – General Use	Not specified	0.1700
84-74-2	LANL ECORISK	Surface Water No Effect ESL	Aquatic community organisms	0.0190
84-74-2	LANL ECORISK	Surface Water Low Effect ESL	Aquatic community organisms	0.1900
84-74-2	LANL ECORISK	Surface Water No Effect ESL	Violet-green swallow	0.5700
84-74-2	LANL ECORISK	Surface Water No Effect ESL	American robin	1.0000
84-74-2	LANL ECORISK	Surface Water No Effect ESL	American kestrel	1.1000
84-74-2	LANL ECORISK	Surface Water Low Effect ESL	Violet-green swallow	5.7000
84-74-2	LANL ECORISK	Surface Water Low Effect ESL	American robin	10.0000
84-74-2	LANL ECORISK	Surface Water Low Effect ESL	American kestrel	11.0000
84-74-2	LANL ECORISK	Surface Water No Effect ESL	Montane shrew	2600.0000
84-74-2	LANL ECORISK	Surface Water No Effect ESL	Deer mouse	3100.0000
84-74-2	LANL ECORISK	Surface Water No Effect ESL	Occult little brown myotis bat	3700.0000
84-74-2	LANL ECORISK	Surface Water No Effect ESL	Mountain cottontail	6100.0000
84-74-2	LANL ECORISK	Surface Water No Effect ESL	Gray fox	6900.0000
84-74-2	LANL ECORISK	Surface Water Low Effect ESL	Montane shrew	8900.0000
84-74-2	LANL ECORISK	Surface Water Low Effect ESL	Deer mouse	10000.0000
84-74-2	LANL ECORISK	Surface Water Low Effect ESL	Occult little brown myotis bat	12000.0000
84-74-2	LANL ECORISK	Surface Water Low Effect ESL	Mountain cottontail	20000.0000
84-74-2	LANL ECORISK	Surface Water Low Effect ESL	Gray fox	23000.0000
84-74-2	ORNL	Tier II Secondary Chronic Value	Not specified	0.0350
84-74-2	ORNL	Tier II Secondary Acute Value	Not specified	0.1900
84-74-2	ORNL	EC25 Bass Population	Not specified	0.2510
84-74-2	ORNL	EC20 Fish	Not specified	0.2700
84-74-2	ORNL	EC20 Daphnids	Not specified	0.5000
84-74-2	ORNL	SW Lowest Chronic Value – All Organisms	Not specified	0.6970
84-74-2	ORNL	SW Lowest Chronic Value – Daphnids	Not specified	0.6970
84-74-2	ORNL	SW Lowest Chronic Value – Fish	Not specified	0.7170

Benchmark Values for Dibutyl Phthalate in Surface Water

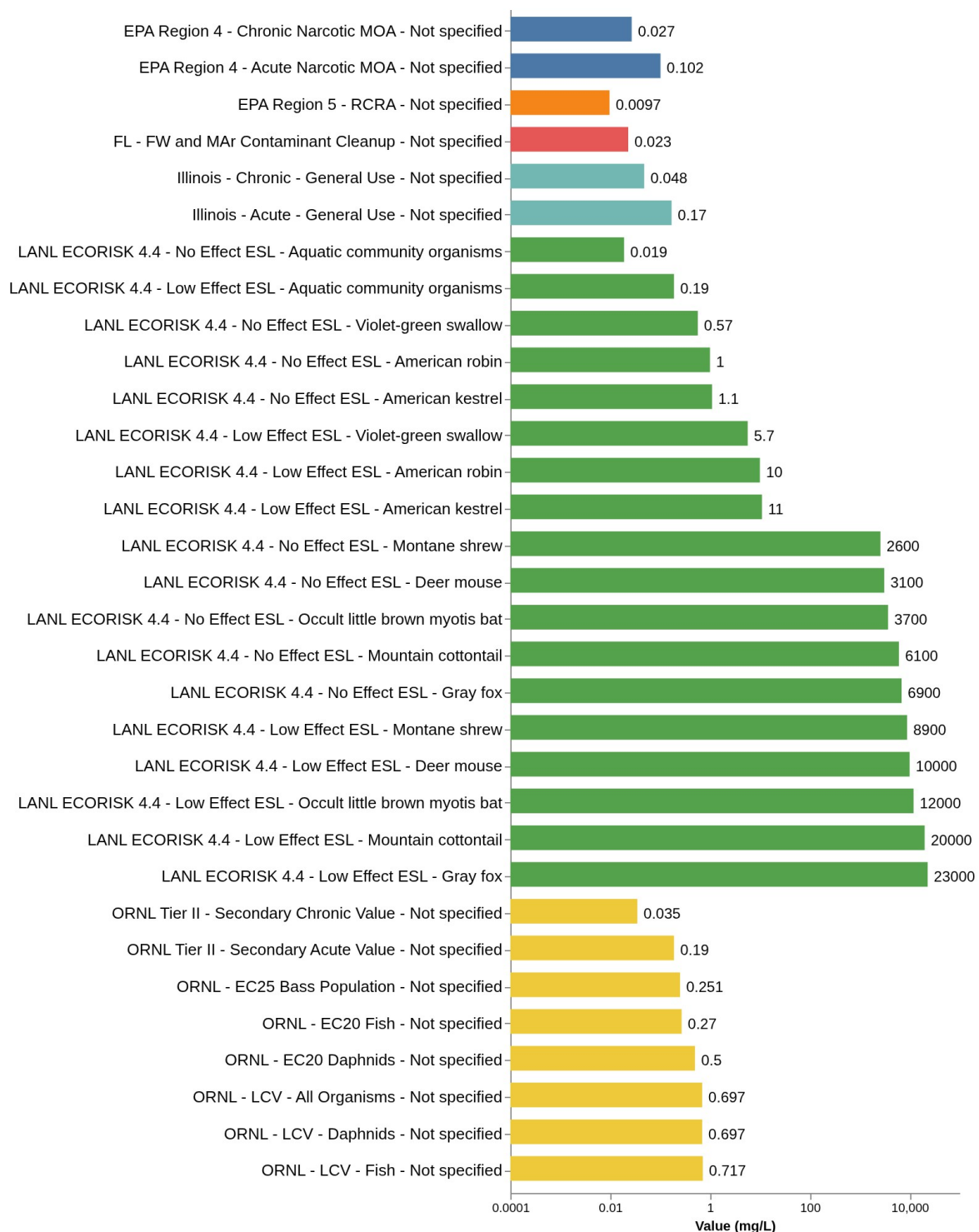


Table 171: Benchmark Values for Dicamba in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
1918-00-9	Canada	Water Irrigation	Not specified	0.000006
1918-00-9	Canada	Water Livestock	Not specified	0.122000
1918-00-9	Florida	Freshwater and Marine Water Contaminant Cleanup	Not specified	0.200000
1918-00-9	Illinois	Chronic – General Use	Not specified	0.150000
1918-00-9	Illinois	Acute – General Use	Not specified	1.500000

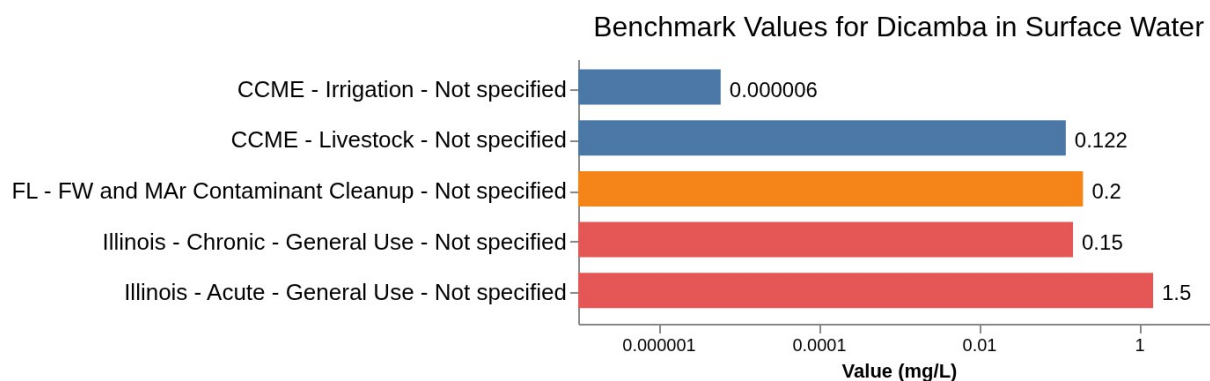


Table 172: Benchmark Values for Dichloroacetic Acid in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
79-43-6	Florida	Freshwater and Marine Water Contaminant Cleanup	Not specified	1.2

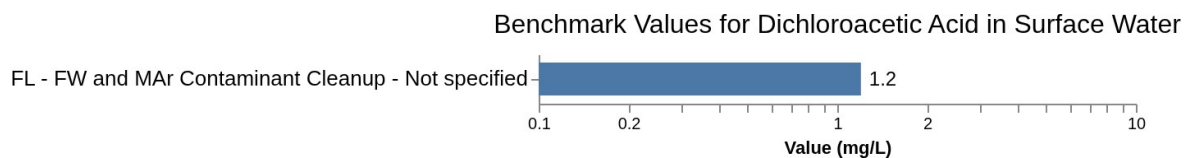


Table 173: Benchmark Values for Dichlorobenzene, 1,2- in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
95-50-1	EPA Region 4	Freshwater and Saltwater Chronic Narcotic MOA	Not specified	0.115
95-50-1	EPA Region 4	Freshwater and Saltwater Acute, Narcotic MOA	Not specified	0.440
95-50-1	EPA Region 5	EPA RCRA Surface Water	Not specified	0.014
95-50-1	Florida	Freshwater and Marine Water Contaminant Cleanup	Not specified	0.099
95-50-1	Illinois	Chronic – General Use	Not specified	0.170
95-50-1	Illinois	Acute – General Use	Not specified	0.210
95-50-1	ORNL	Tier II Secondary Chronic Value	Not specified	0.014
95-50-1	ORNL	Tier II Secondary Acute Value	Not specified	0.260

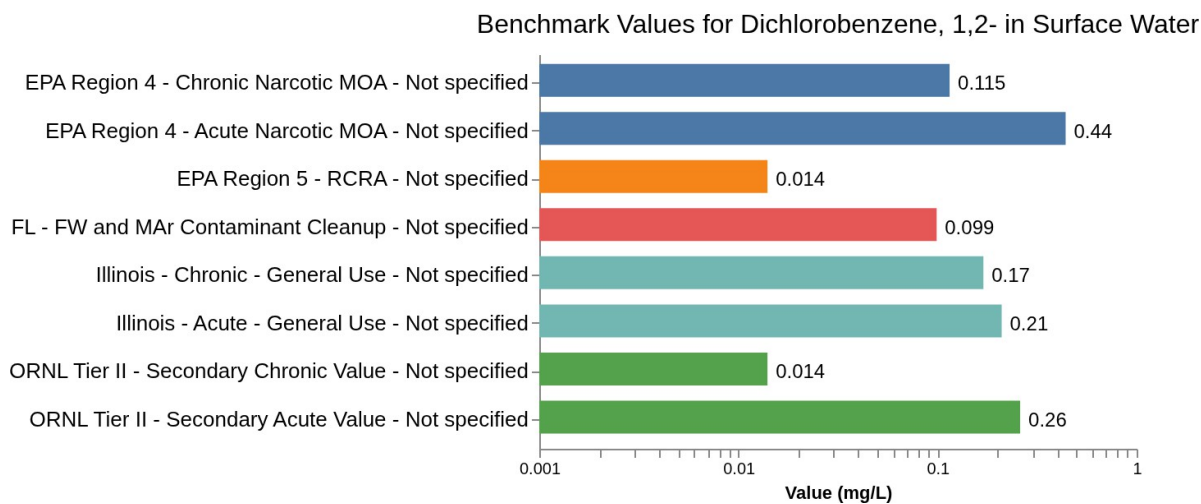


Table 174: Benchmark Values for Dichlorobenzene, 1,3- in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
541-73-1	EPA Region 4	Freshwater and Saltwater Chronic Narcotic MOA	Not specified	0.115
541-73-1	EPA Region 4	Freshwater and Saltwater Acute, Narcotic MOA	Not specified	0.440
541-73-1	EPA Region 5	EPA RCRA Surface Water	Not specified	0.038
541-73-1	Florida	Freshwater and Marine Water Contaminant Cleanup	Not specified	0.085
541-73-1	Illinois	Chronic – General Use	Not specified	0.200
541-73-1	Illinois	Acute – General Use	Not specified	0.500
541-73-1	ORNL	Tier II Secondary Chronic Value	Not specified	0.071
541-73-1	ORNL	Tier II Secondary Acute Value	Not specified	0.630

Benchmark Values for Dichlorobenzene, 1,3- in Surface Water

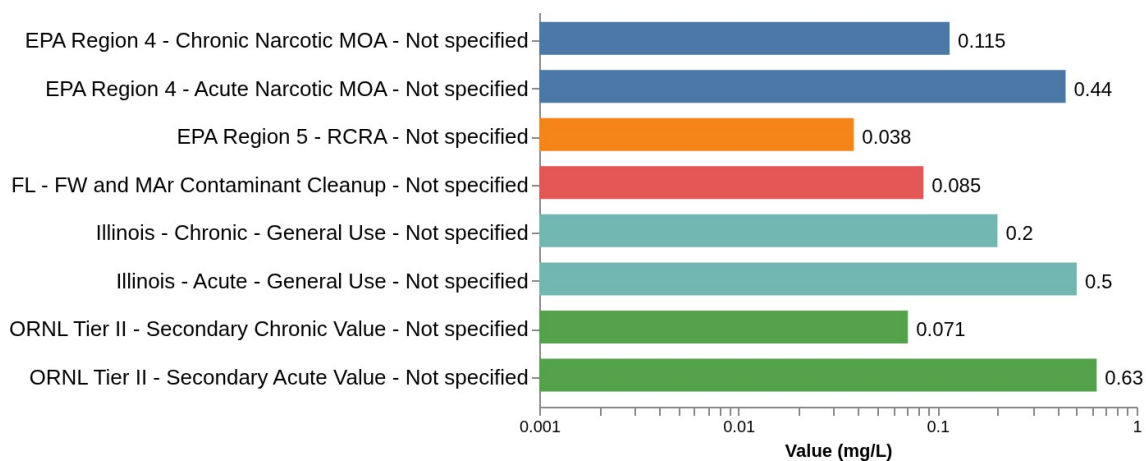


Table 175: Benchmark Values for Dichlorobenzene, 1,4- in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
106-46-7	EPA Region 4	Freshwater and Saltwater Chronic Narcotic MOA	Not specified	0.1150
106-46-7	EPA Region 4	Freshwater and Saltwater Acute, Narcotic MOA	Not specified	0.4400
106-46-7	EPA Region 5	EPA RCRA Surface Water	Not specified	0.0094
106-46-7	Illinois	Chronic – General Use	Not specified	0.6200
106-46-7	Illinois	Acute – General Use	Not specified	1.8000
106-46-7	LANL ECORISK	Surface Water No Effect ESL	Aquatic community organisms	0.0150
106-46-7	LANL ECORISK	Surface Water Low Effect ESL	Aquatic community organisms	0.1500
106-46-7	LANL ECORISK	Surface Water No Effect ESL	Montane shrew	11.0000
106-46-7	LANL ECORISK	Surface Water No Effect ESL	Deer mouse	13.0000
106-46-7	LANL ECORISK	Surface Water No Effect ESL	Occult little brown myotis bat	15.0000
106-46-7	LANL ECORISK	Surface Water No Effect ESL	Mountain cottontail	25.0000
106-46-7	LANL ECORISK	Surface Water No Effect ESL	Gray fox	29.0000
106-46-7	LANL ECORISK	Surface Water Low Effect ESL	Montane shrew	44.0000
106-46-7	LANL ECORISK	Surface Water Low Effect ESL	Deer mouse	52.0000
106-46-7	LANL ECORISK	Surface Water Low Effect ESL	Occult little brown myotis bat	62.0000
106-46-7	LANL ECORISK	Surface Water Low Effect ESL	Mountain cottontail	100.0000
106-46-7	LANL ECORISK	Surface Water Low Effect ESL	Gray fox	110.0000
106-46-7	ORNL	Tier II Secondary Chronic Value	Not specified	0.0150
106-46-7	ORNL	Tier II Secondary Acute Value	Not specified	0.1800

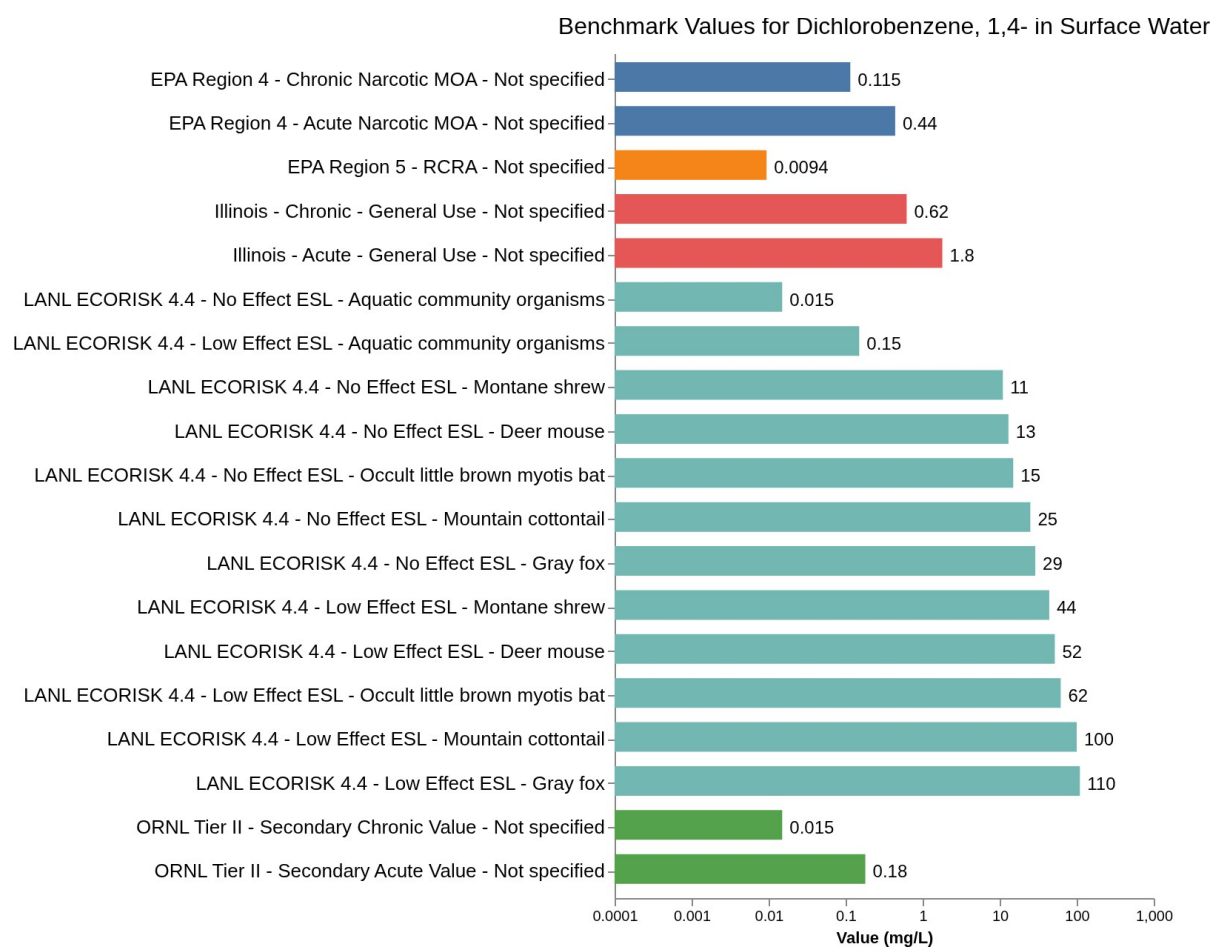


Table 176: Benchmark Values for Dichlorobenzene in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
25321-22-6	ORNL	Tier II Secondary Acute Value	Not specified	0.18

Benchmark Values for Dichlorobenzene in Surface Water

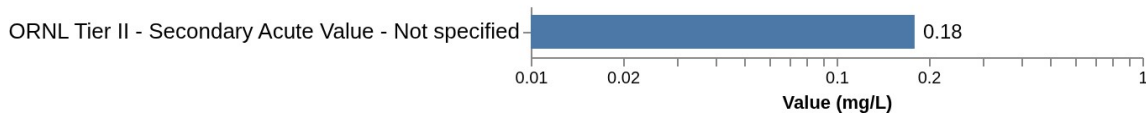


Table 177: Benchmark Values for Dichlorobenzidine, 3,3'– in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
91-94-1	EPA Region 5	EPA RCRA Surface Water	Not specified	0.0045

Benchmark Values for Dichlorobenzidine, 3,3'- in Surface Water

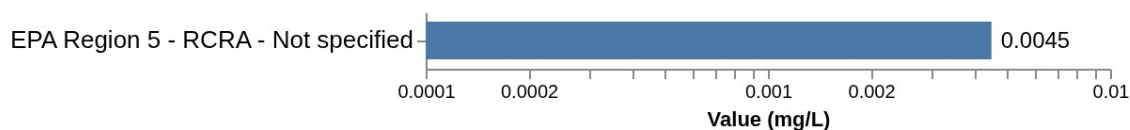


Table 178: Benchmark Values for Dichlorodiphenyldichloroethane, p,p'– (DDD) in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
72-54-8	ORNL	Tier II Secondary Chronic Value	Not specified	0.000011	
72-54-8	ORNL	Tier II Secondary Acute Value	Not specified	0.000190	
72-54-8	ORNL	EC25 Bass Population	Not specified	0.000610	
72-54-8	ORNL	SW Lowest Chronic Value – All Organisms	Not specified	0.001690	24
72-54-8	ORNL	SW Lowest Chronic Value – Fish	Not specified	0.001690	24
72-54-8	ORNL	EC20 Fish	Not specified	0.003990	29

Benchmark Values for Dichlorodiphenyldichloroethane, p,p'- (DDD) in Surface Water

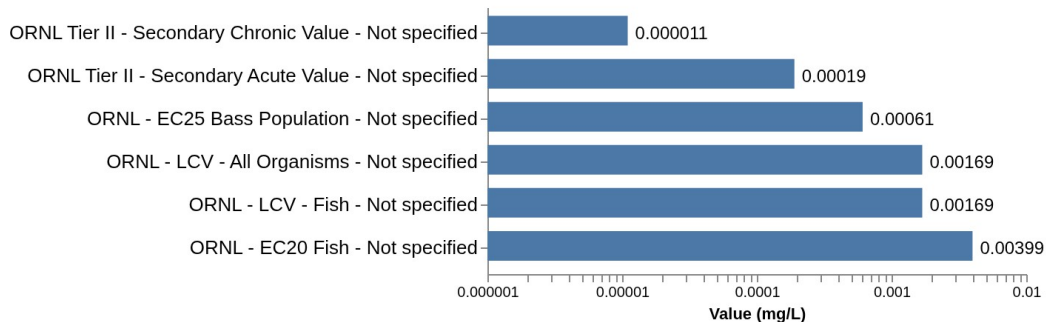


Table 179: Benchmark Values for Dichlorodiphenyldichloroethylene, p,p'– (DDE) in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
72–55–9	EPA Region 5	EPA RCRA Surface Water	Not specified	4.510000e-12
72–55–9	LANL ECORISK	Surface Water No Effect ESL	Aquatic community organisms	1.000000e-01
72–55–9	LANL ECORISK	Surface Water No Effect ESL	Violet–green swallow	5.300000e-01
72–55–9	LANL ECORISK	Surface Water No Effect ESL	American robin	9.200000e-01
72–55–9	LANL ECORISK	Surface Water No Effect ESL	American kestrel	1.000000e+00
72–55–9	LANL ECORISK	Surface Water Low Effect ESL	Aquatic community organisms	1.000000e+00
72–55–9	LANL ECORISK	Surface Water Low Effect ESL	Violet–green swallow	5.300000e+00
72–55–9	LANL ECORISK	Surface Water Low Effect ESL	American robin	9.200000e+00
72–55–9	LANL ECORISK	Surface Water Low Effect ESL	American kestrel	1.000000e+01
72–55–9	LANL ECORISK	Surface Water No Effect ESL	Montane shrew	4.400000e+01
72–55–9	LANL ECORISK	Surface Water No Effect ESL	Deer mouse	5.200000e+01
72–55–9	LANL ECORISK	Surface Water No Effect ESL	Occult little brown myotis bat	6.200000e+01
72–55–9	LANL ECORISK	Surface Water No Effect ESL	Mountain cottontail	1.000000e+02
72–55–9	LANL ECORISK	Surface Water No Effect ESL	Gray fox	1.100000e+02
72–55–9	LANL ECORISK	Surface Water Low Effect ESL	Montane shrew	4.400000e+02
72–55–9	LANL ECORISK	Surface Water Low Effect ESL	Deer mouse	5.200000e+02
72–55–9	LANL ECORISK	Surface Water Low Effect ESL	Occult little brown myotis bat	6.200000e+02
72–55–9	LANL ECORISK	Surface Water Low Effect ESL	Mountain cottontail	1.000000e+03
72–55–9	LANL ECORISK	Surface Water Low Effect ESL	Gray fox	1.100000e+03

Benchmark Values for Dichlorodiphenyldichloroethylene, p,p'- (DDE) in Surface Water

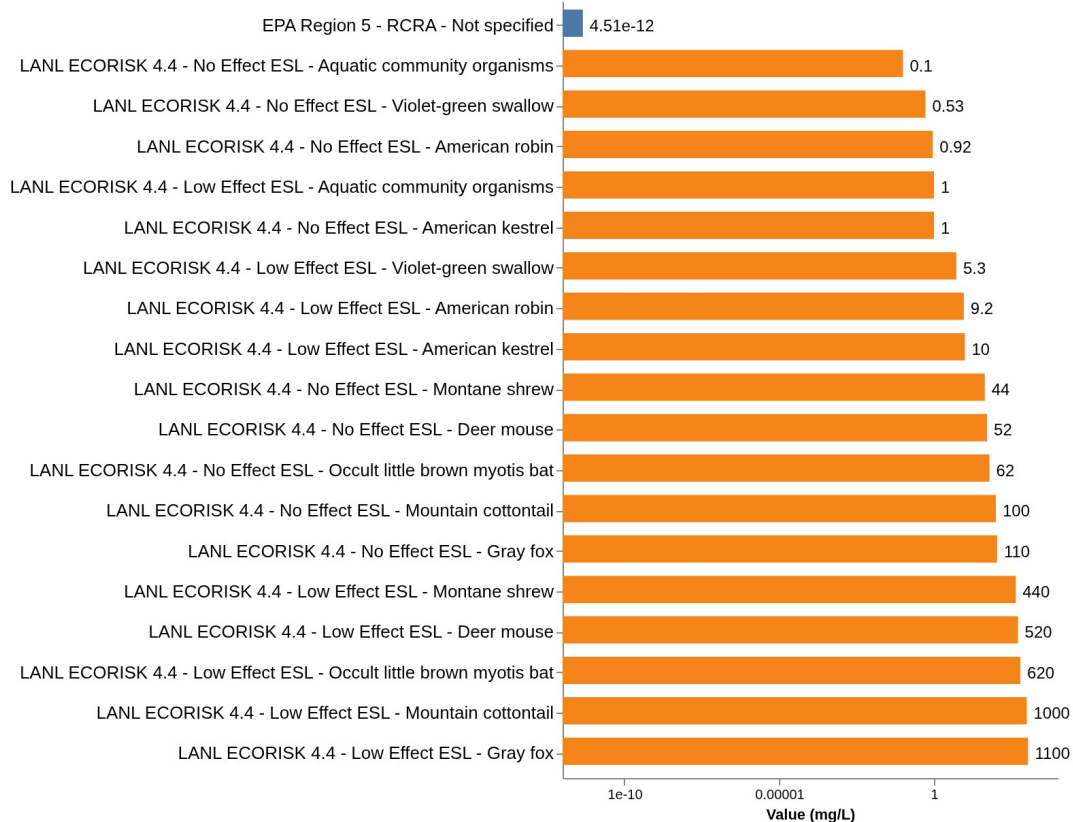


Table 180: Benchmark Values for Dichlorodiphenyltrichloroethane, p,p'– (DDT) in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
50–29–3	EPA Region 5	EPA RCRA Surface Water	Not specified	1.100000e-08	
50–29–3	Florida	SWQS for Shellfish Propagation or Harvesting	Not specified	5.900000e-07	
50–29–3	Illinois	Chronic – General Use	Not specified	1.000000e-09	196, 197
50–29–3	Illinois	Acute – General Use	Not specified	1.100000e-06	196, 197
50–29–3	LANL ECORISK	Surface Water No Effect ESL	Aquatic community organisms	1.000000e-06	
50–29–3	LANL ECORISK	Surface Water Low Effect ESL	Aquatic community organisms	1.000000e-05	
50–29–3	LANL ECORISK	Surface Water No Effect ESL	Violet–green swallow	9.900000e-01	
50–29–3	LANL ECORISK	Surface Water No Effect ESL	American robin	1.700000e+00	
50–29–3	LANL ECORISK	Surface Water No Effect ESL	American kestrel	2.000000e+00	
50–29–3	LANL ECORISK	Surface Water No Effect ESL	Montane shrew	7.100000e+00	
50–29–3	LANL ECORISK	Surface Water No Effect ESL	Deer mouse	8.400000e+00	
50–29–3	LANL ECORISK	Surface Water Low Effect ESL	Violet–green swallow	9.900000e+00	
50–29–3	LANL ECORISK	Surface Water No Effect ESL	Occult little brown myotis bat	1.000000e+01	
50–29–3	LANL ECORISK	Surface Water No Effect ESL	Mountain cottontail	1.600000e+01	
50–29–3	LANL ECORISK	Surface Water Low Effect ESL	American robin	1.700000e+01	
50–29–3	LANL ECORISK	Surface Water No Effect ESL	Gray fox	1.800000e+01	
50–29–3	LANL ECORISK	Surface Water Low Effect ESL	American kestrel	2.000000e+01	
50–29–3	LANL ECORISK	Surface Water Low Effect ESL	Montane shrew	7.100000e+01	
50–29–3	LANL ECORISK	Surface Water Low Effect ESL	Deer mouse	8.400000e+01	
50–29–3	LANL ECORISK	Surface Water Low Effect ESL	Occult little brown myotis bat	1.000000e+02	
50–29–3	LANL ECORISK	Surface Water Low Effect ESL	Mountain cottontail	1.600000e+02	
50–29–3	LANL ECORISK	Surface Water Low Effect ESL	Gray fox	1.800000e+02	
50–29–3	ORNL	EC20 Sensitive Species	Not specified	8.000000e-06	
50–29–3	ORNL	Tier II Secondary Chronic Value	Not specified	1.300000e-05	27
50–29–3	ORNL	SW Lowest Chronic Value – Daphnids	Not specified	1.600000e-05	24
50–29–3	ORNL	SW Lowest Chronic Value – All Organisms	Not specified	3.000000e-04	
50–29–3	ORNL	SW Lowest Chronic Value – Aquatic Plants	Not specified	3.000000e-04	
50–29–3	ORNL	EC20 Fish	Not specified	3.500000e-04	
50–29–3	ORNL	SW Lowest Chronic Value – Fish	Not specified	7.300000e-04	
50–29–3	Ohio	OMZA Lake Erie Drainage Basin	Not specified	1.100000e-08	189, 192

Benchmark Values for Dichlorodiphenyltrichloroethane, p,p'- (DDT) in Surface Water

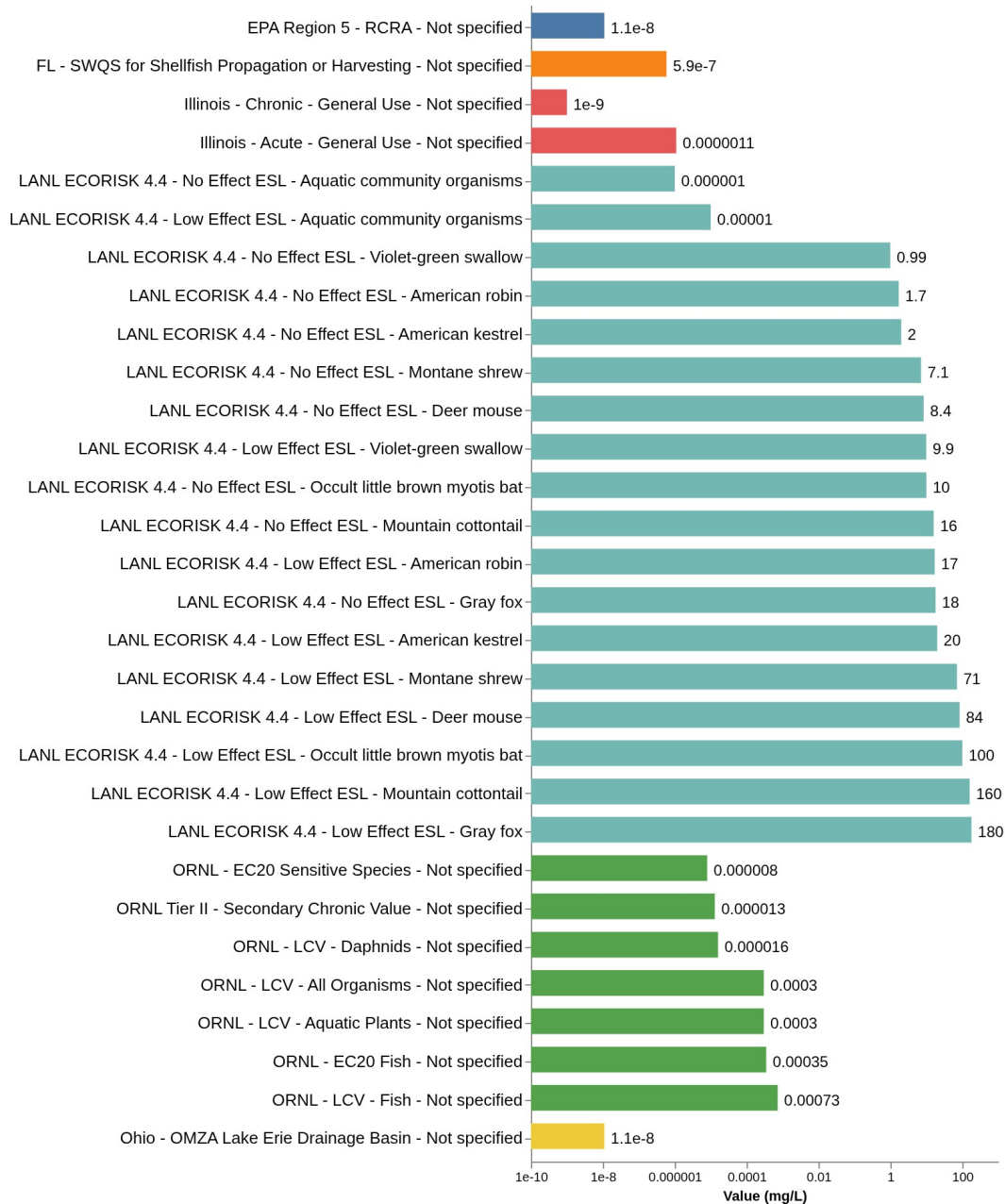


Table 181: Benchmark Values for Dichloroethane, 1,1– in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
75–34–3	EPA Region 4	Freshwater and Saltwater Chronic Narcotic MOA	Not specified	2.692	
75–34–3	EPA Region 4	Freshwater and Saltwater Acute, Narcotic MOA	Not specified	10.310	
75–34–3	EPA Region 5	EPA RCRA Surface Water	Not specified	0.047	
75–34–3	Illinois	Chronic – General Use	Not specified	2.000	195
75–34–3	Illinois	Acute – General Use	Not specified	20.000	195
75–34–3	LANL ECORISK	Surface Water No Effect ESL	Aquatic community organisms	0.047	
75–34–3	LANL ECORISK	Surface Water Low Effect ESL	Aquatic community organisms	0.470	
75–34–3	LANL ECORISK	Surface Water No Effect ESL	Montane shrew	1700.000	
75–34–3	LANL ECORISK	Surface Water No Effect ESL	Deer mouse	2000.000	
75–34–3	LANL ECORISK	Surface Water No Effect ESL	Occult little brown myotis bat	2400.000	
75–34–3	LANL ECORISK	Surface Water No Effect ESL	Mountain cottontail	3900.000	
75–34–3	LANL ECORISK	Surface Water No Effect ESL	Gray fox	4400.000	
75–34–3	LANL ECORISK	Surface Water Low Effect ESL	Montane shrew	17000.000	
75–34–3	LANL ECORISK	Surface Water Low Effect ESL	Deer mouse	20000.000	
75–34–3	LANL ECORISK	Surface Water Low Effect ESL	Occult little brown myotis bat	24000.000	
75–34–3	LANL ECORISK	Surface Water Low Effect ESL	Mountain cottontail	39000.000	
75–34–3	LANL ECORISK	Surface Water Low Effect ESL	Gray fox	44000.000	
75–34–3	ORNL	Tier II Secondary Chronic Value	Not specified	0.047	
75–34–3	ORNL	Tier II Secondary Acute Value	Not specified	0.830	
75–34–3	ORNL	EC25 Bass Population	Not specified	1.590	
75–34–3	ORNL	EC20 Fish	Not specified	8.220	29
75–34–3	ORNL	SW Lowest Chronic Value – All Organisms	Not specified	14.680	24
75–34–3	ORNL	SW Lowest Chronic Value – Fish	Not specified	14.700	24

Benchmark Values for Dichloroethane, 1,1- in Surface Water

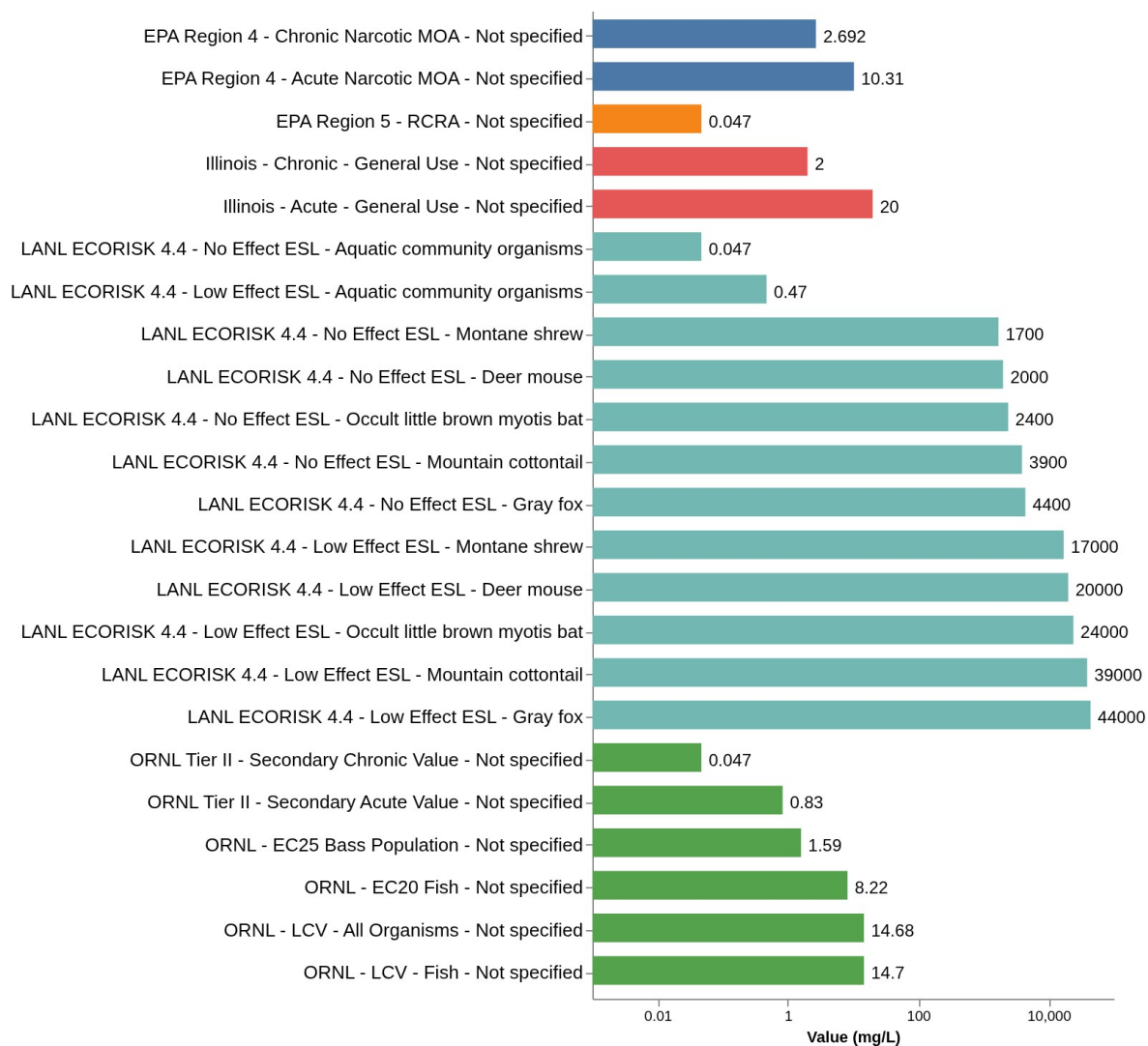


Table 182: Benchmark Values for Dichloroethane, 1,2- in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
107-06-2	Canada	Water Livestock	Not specified	0.005	
107-06-2	EPA Region 4	Freshwater and Saltwater Chronic Narcotic MOA	Not specified	2.294	
107-06-2	EPA Region 4	Freshwater and Saltwater Acute, Narcotic MOA	Not specified	8.786	
107-06-2	EPA Region 5	EPA RCRA Surface Water	Not specified	0.910	
107-06-2	Illinois	Chronic – General Use	Not specified	4.500	
107-06-2	Illinois	Acute – General Use	Not specified	25.000	
107-06-2	LANL ECORISK	Surface Water No Effect ESL	Aquatic community organisms	0.100	
107-06-2	LANL ECORISK	Surface Water Low Effect ESL	Aquatic community organisms	1.000	
107-06-2	LANL ECORISK	Surface Water No Effect ESL	Violet-green swallow	19.000	
107-06-2	LANL ECORISK	Surface Water No Effect ESL	American robin	32.000	
107-06-2	LANL ECORISK	Surface Water Low Effect ESL	Violet-green swallow	37.000	
107-06-2	LANL ECORISK	Surface Water No Effect ESL	American kestrel	38.000	
107-06-2	LANL ECORISK	Surface Water Low Effect ESL	American robin	65.000	
107-06-2	LANL ECORISK	Surface Water Low Effect ESL	American kestrel	75.000	
107-06-2	LANL ECORISK	Surface Water No Effect ESL	Montane shrew	220.000	
107-06-2	LANL ECORISK	Surface Water No Effect ESL	Deer mouse	260.000	
107-06-2	LANL ECORISK	Surface Water No Effect ESL	Occult little brown myotis bat	310.000	
107-06-2	LANL ECORISK	Surface Water No Effect ESL	Mountain cottontail	510.000	
107-06-2	LANL ECORISK	Surface Water No Effect ESL	Gray fox	570.000	
107-06-2	LANL ECORISK	Surface Water Low Effect ESL	Montane shrew	2200.000	
107-06-2	LANL ECORISK	Surface Water Low Effect ESL	Deer mouse	2600.000	
107-06-2	LANL ECORISK	Surface Water Low Effect ESL	Occult little brown myotis bat	3100.000	
107-06-2	LANL ECORISK	Surface Water Low Effect ESL	Mountain cottontail	5100.000	
107-06-2	LANL ECORISK	Surface Water Low Effect ESL	Gray fox	5700.000	
107-06-2	ORNL	Tier II Secondary Chronic Value	Not specified	0.910	
107-06-2	ORNL	EC25 Bass Population	Not specified	1.260	
107-06-2	ORNL	Tier II Secondary Acute Value	Not specified	8.800	
107-06-2	ORNL	EC20 Daphnids	Not specified	11.000	23
107-06-2	ORNL	SW Lowest Chronic Value – Daphnids	Not specified	15.200	
107-06-2	ORNL	SW Lowest Chronic Value – All Organisms	Not specified	15.200	
107-06-2	ORNL	EC20 Fish	Not specified	29.000	
107-06-2	ORNL	SW Lowest Chronic Value – Fish	Not specified	41.400	

Benchmark Values for Dichloroethane, 1,2- in Surface Water

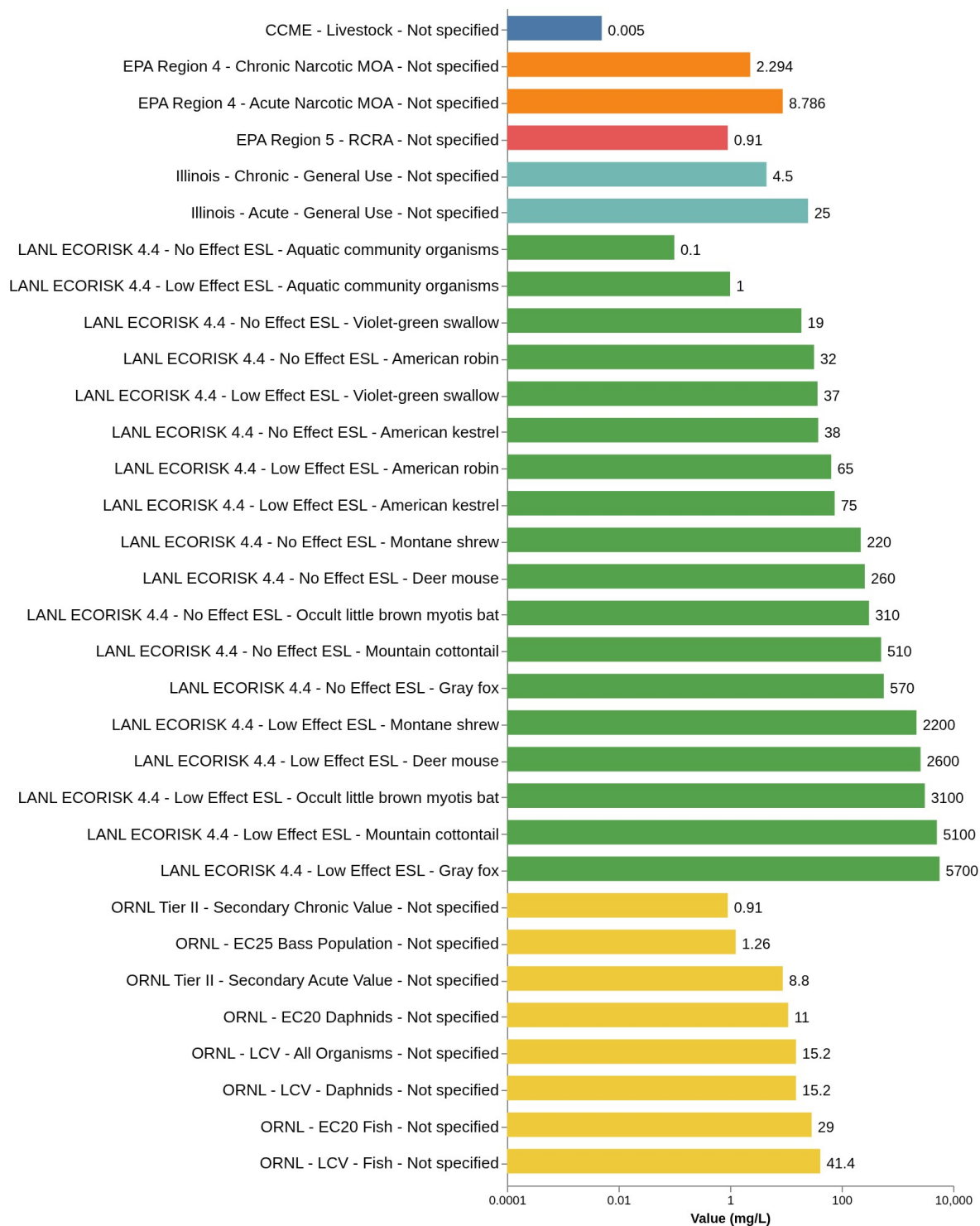


Table 183: Benchmark Values for Dichloroethylene, 1,1– in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
75–35–4	EPA Region 4	Freshwater and Saltwater Chronic Narcotic MOA	Not specified	1.2170	
75–35–4	EPA Region 4	Freshwater and Saltwater Acute, Narcotic MOA	Not specified	4.6570	
75–35–4	EPA Region 5	EPA RCRA Surface Water	Not specified	0.0650	
75–35–4	Florida	SWQS for Shellfish Propagation or Harvesting	Not specified	0.0032	
75–35–4	Illinois	Chronic – General Use	Not specified	0.2400	
75–35–4	Illinois	Acute – General Use	Not specified	3.0000	
75–35–4	LANL ECORISK	Surface Water No Effect ESL	Aquatic community organisms	0.0250	
75–35–4	LANL ECORISK	Surface Water Low Effect ESL	Aquatic community organisms	0.2500	
75–35–4	LANL ECORISK	Surface Water No Effect ESL	Montane shrew	130.0000	
75–35–4	LANL ECORISK	Surface Water No Effect ESL	Deer mouse	150.0000	
75–35–4	LANL ECORISK	Surface Water No Effect ESL	Occult little brown myotis bat	180.0000	
75–35–4	LANL ECORISK	Surface Water No Effect ESL	Mountain cottontail	300.0000	
75–35–4	LANL ECORISK	Surface Water No Effect ESL	Gray fox	340.0000	
75–35–4	LANL ECORISK	Surface Water Low Effect ESL	Montane shrew	1300.0000	
75–35–4	LANL ECORISK	Surface Water Low Effect ESL	Deer mouse	1500.0000	
75–35–4	LANL ECORISK	Surface Water Low Effect ESL	Occult little brown myotis bat	1800.0000	
75–35–4	LANL ECORISK	Surface Water Low Effect ESL	Mountain cottontail	3000.0000	
75–35–4	LANL ECORISK	Surface Water Low Effect ESL	Gray fox	3400.0000	
75–35–4	ORNL	Tier II Secondary Chronic Value	Not specified	0.0250	
75–35–4	ORNL	EC25 Bass Population	Not specified	0.4470	
75–35–4	ORNL	Tier II Secondary Acute Value	Not specified	0.4500	
75–35–4	ORNL	SW Lowest Chronic Value – Fish	Not specified	2.8000	22
75–35–4	ORNL	SW Lowest Chronic Value – All Organisms	Not specified	2.8000	22
75–35–4	ORNL	SW Lowest Chronic Value – Daphnids	Not specified	4.7200	24
75–35–4	ORNL	SW Lowest Chronic Value – Aquatic Plants	Not specified	798.0000	22

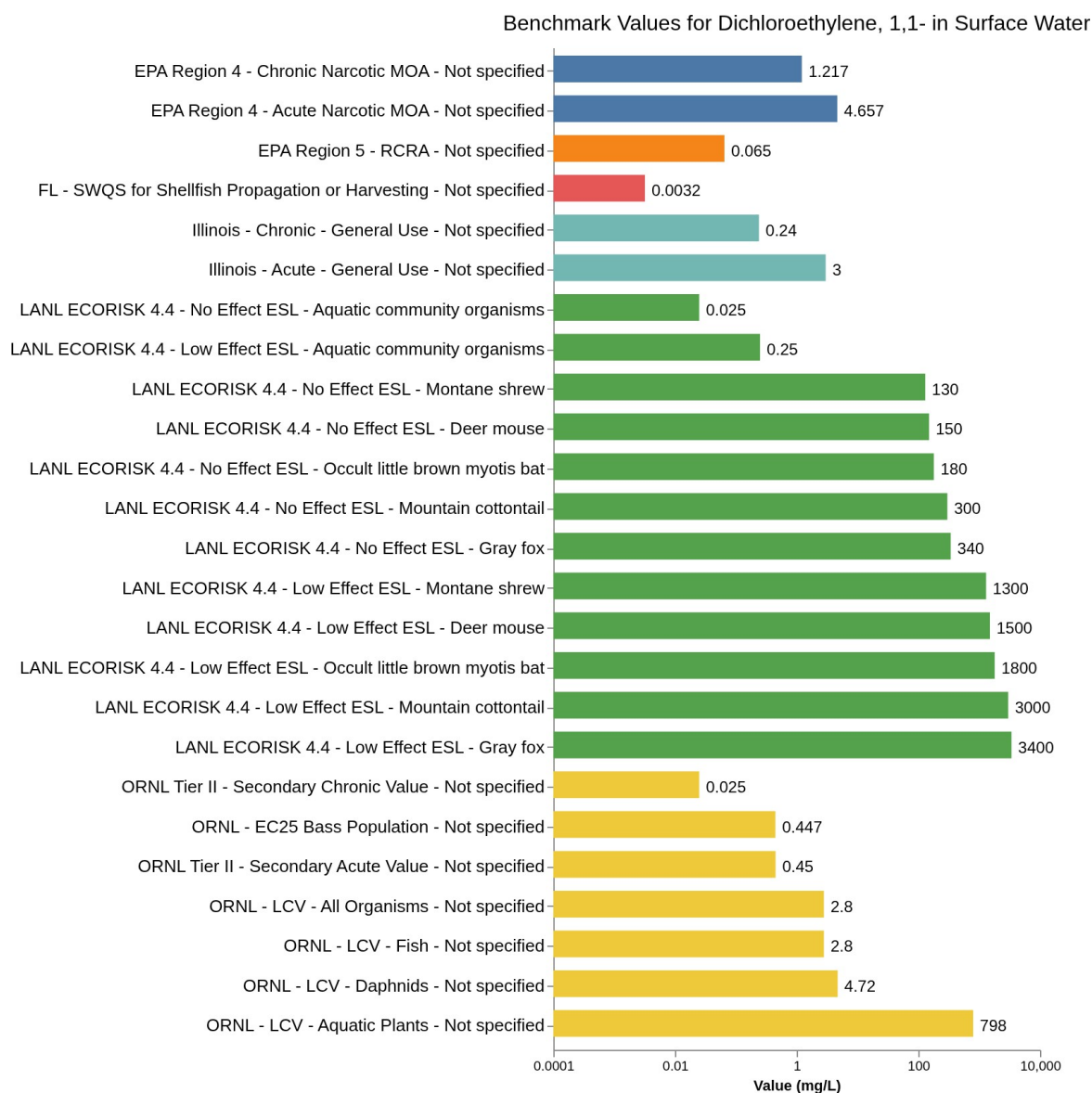


Table 184: Benchmark Values for Dichloroethylene, 1,2- (Mixed Isomers) in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
540-59-0	EPA Region 4	Freshwater and Saltwater Chronic Narcotic MOA	Not specified	1.629	
540-59-0	EPA Region 4	Freshwater and Saltwater Acute, Narcotic MOA	Not specified	6.236	
540-59-0	Florida	Freshwater and Marine Water Contaminant Cleanup	Not specified	7.000	
540-59-0	Illinois	Chronic – Lake Michigan	Not specified	0.980	
540-59-0	Illinois	Chronic – General Use	Not specified	1.100	
540-59-0	Illinois	Acute – Lake Michigan	Not specified	8.800	
540-59-0	Illinois	Acute – General Use	Not specified	14.000	
540-59-0	LANL ECORISK	Surface Water No Effect ESL	Aquatic community organisms	0.590	
540-59-0	LANL ECORISK	Surface Water Low Effect ESL	Aquatic community organisms	1.100	
540-59-0	LANL ECORISK	Surface Water No Effect ESL	Montane shrew	200.000	
540-59-0	LANL ECORISK	Surface Water No Effect ESL	Deer mouse	230.000	
540-59-0	LANL ECORISK	Surface Water No Effect ESL	Occult little brown myotis bat	280.000	
540-59-0	LANL ECORISK	Surface Water No Effect ESL	Mountain cottontail	460.000	
540-59-0	LANL ECORISK	Surface Water No Effect ESL	Gray fox	520.000	
540-59-0	LANL ECORISK	Surface Water Low Effect ESL	Montane shrew	2000.000	
540-59-0	LANL ECORISK	Surface Water Low Effect ESL	Deer mouse	2300.000	
540-59-0	LANL ECORISK	Surface Water Low Effect ESL	Occult little brown myotis bat	2800.000	
540-59-0	LANL ECORISK	Surface Water Low Effect ESL	Mountain cottontail	4600.000	
540-59-0	LANL ECORISK	Surface Water Low Effect ESL	Gray fox	5200.000	
540-59-0	ORNL	Tier II Secondary Chronic Value	Not specified	0.590	
540-59-0	ORNL	Tier II Secondary Acute Value	Not specified	1.100	
540-59-0	ORNL	EC20 Fish	Not specified	5.720	29
540-59-0	ORNL	SW Lowest Chronic Value – All Organisms	Not specified	9.538	24
540-59-0	ORNL	SW Lowest Chronic Value – Fish	Not specified	9.540	24

Benchmark Values for Dichloroethylene, 1,2- (Mixed Isomers) in Surface Water

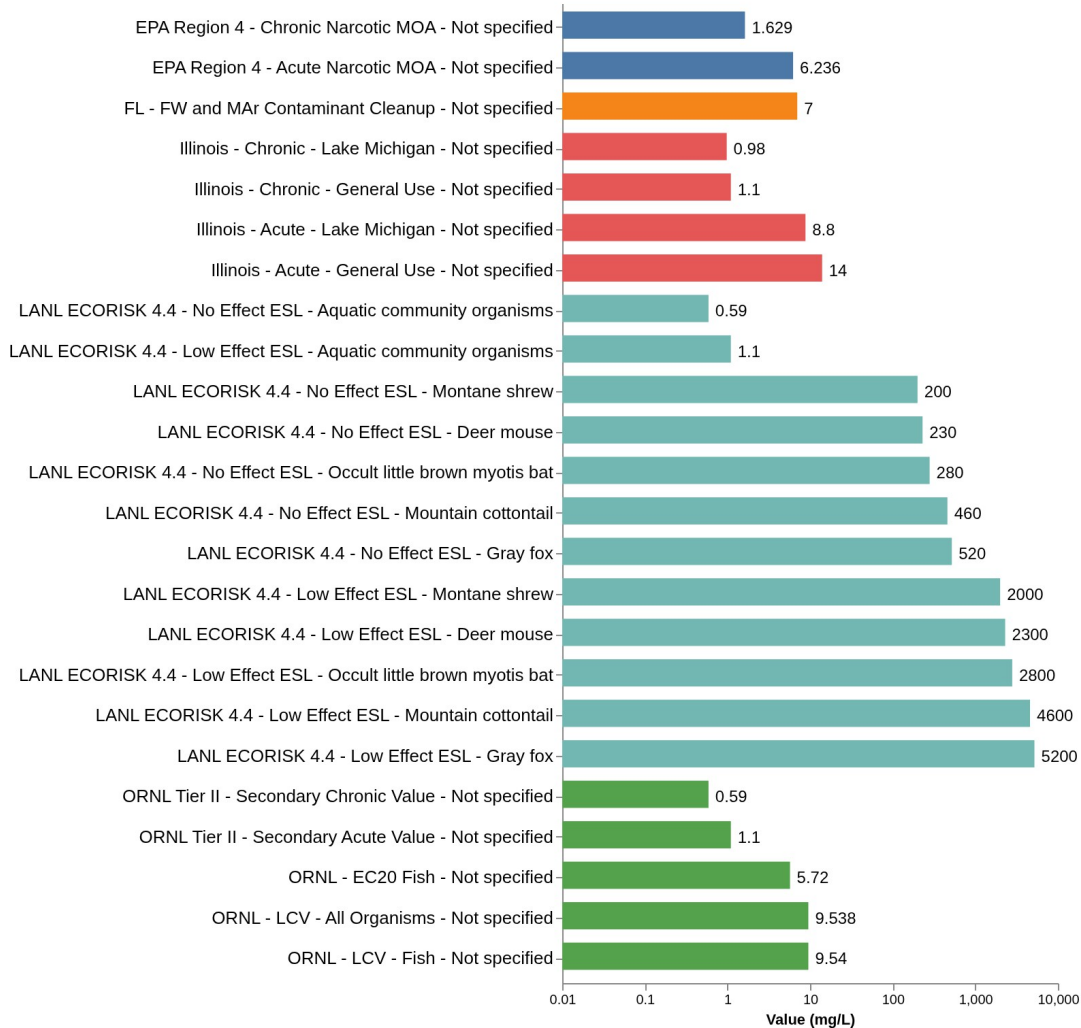


Table 185: Benchmark Values for Dichloroethylene, cis-1,2- in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
156-59-2	EPA Region 4	Freshwater and Saltwater Chronic Narcotic MOA	Not specified	1.629
156-59-2	EPA Region 4	Freshwater and Saltwater Acute, Narcotic MOA	Not specified	6.236

Benchmark Values for Dichloroethylene, cis-1,2- in Surface Water

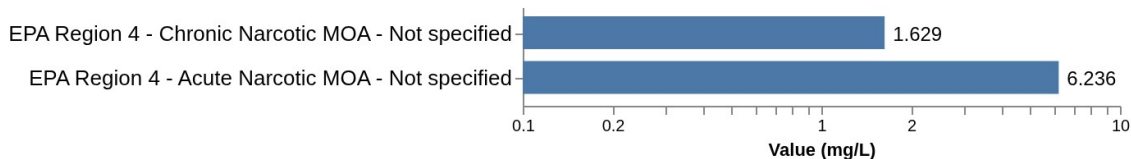


Table 186: Benchmark Values for Dichloroethylene, trans-1,2- in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
156-60-5	EPA Region 4	Freshwater and Saltwater Chronic Narcotic MOA	Not specified	1.629
156-60-5	EPA Region 4	Freshwater and Saltwater Acute, Narcotic MOA	Not specified	6.236
156-60-5	EPA Region 5	EPA RCRA Surface Water	Not specified	0.970
156-60-5	Florida	Freshwater and Marine Water Contaminant Cleanup	Not specified	11.000

Benchmark Values for Dichloroethylene, trans-1,2- in Surface Water

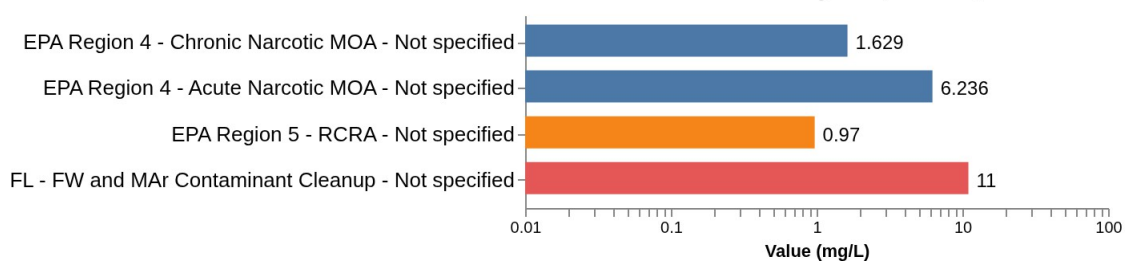


Table 187: Benchmark Values for Dichlorophenol, 2,3- in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
576-24-9	Florida	Freshwater and Marine Water Contaminant Cleanup	Not specified	0.056

Benchmark Values for Dichlorophenol, 2,3- in Surface Water

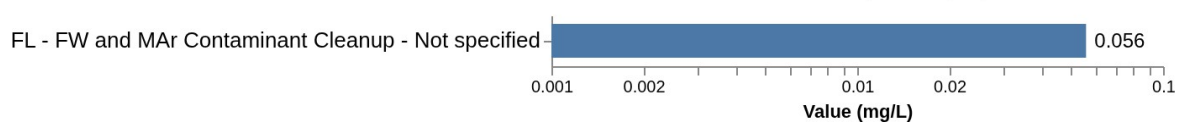


Table 188: Benchmark Values for Dichlorophenol, 2,4- in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
120-83-2	EPA Region 4	Freshwater and Saltwater Chronic Narcotic MOA	Not specified	0.361
120-83-2	EPA Region 4	Freshwater and Saltwater Acute, Narcotic MOA	Not specified	1.352
120-83-2	EPA Region 5	EPA RCRA Surface Water	Not specified	0.011
120-83-2	Florida	Freshwater and Marine Water Contaminant Cleanup	Not specified	0.013
120-83-2	Florida	SWQS for Shellfish Propagation or Harvesting	Not specified	0.790
120-83-2	Illinois	Chronic - General Use	Not specified	0.083
120-83-2	Illinois	Acute - General Use	Not specified	0.630

Benchmark Values for Dichlorophenol, 2,4- in Surface Water

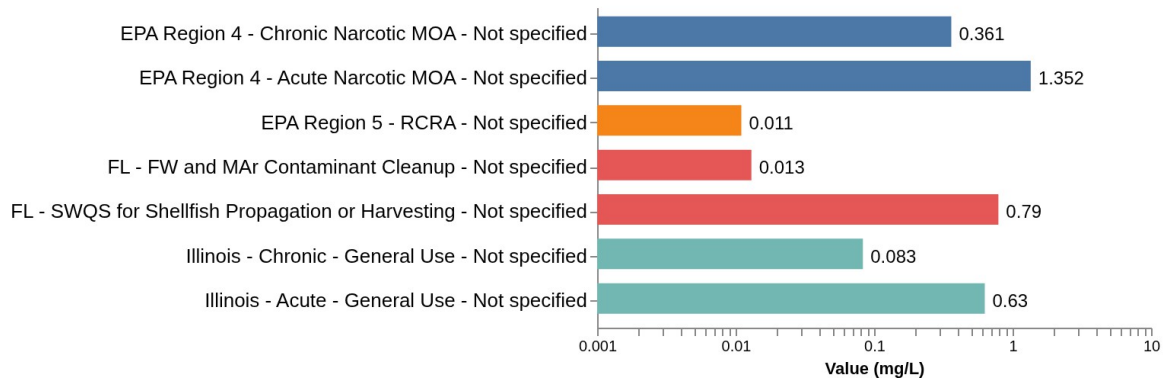


Table 189: Benchmark Values for Dichlorophenol, 2,5- in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
583-78-8	Florida	Freshwater and Marine Water Contaminant Cleanup	Not specified	0.09

Benchmark Values for Dichlorophenol, 2,5- in Surface Water

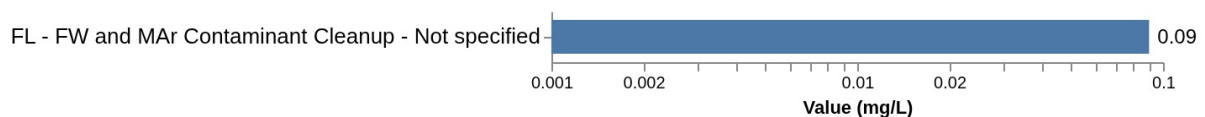


Table 190: Benchmark Values for Dichlorophenol, 2,6- in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
87-65-0	Florida	Freshwater and Marine Water Contaminant Cleanup	Not specified	0.073

Benchmark Values for Dichlorophenol, 2,6- in Surface Water

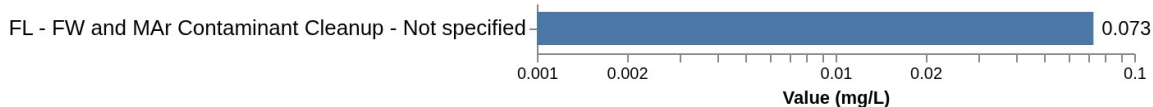


Table 191: Benchmark Values for Dichlorophenol, 3,4- in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
95-77-2	Florida	Freshwater and Marine Water Contaminant Cleanup	Not specified	0.061

Benchmark Values for Dichlorophenol, 3,4- in Surface Water

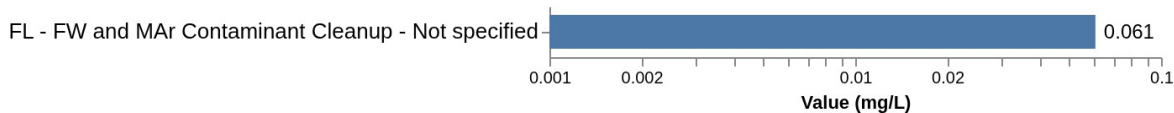


Table 192: Benchmark Values for Dichlorophenoxy Acetic Acid, 2,4- in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
94-75-7	EPA Region 5	EPA RCRA Surface Water	Not specified	0.220
94-75-7	Florida	Freshwater and Marine Water Contaminant Cleanup	Not specified	0.080
94-75-7	Illinois	Chronic - General Use	Not specified	0.008
94-75-7	Illinois	Acute - General Use	Not specified	0.100

Benchmark Values for Dichlorophenoxy Acetic Acid, 2,4- in Surface Water

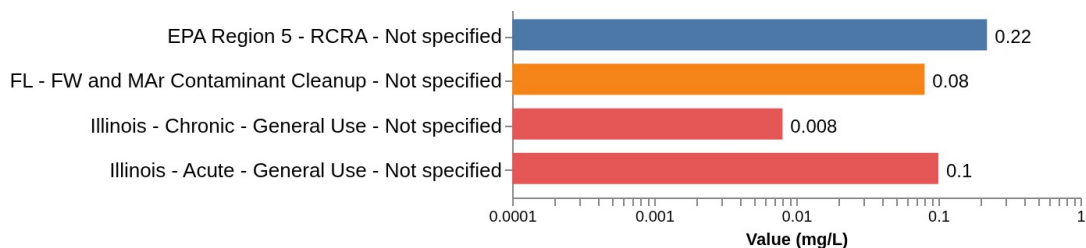


Table 193: Benchmark Values for Dichloropropane, 1,2– in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
78–87–5	EPA Region 4	Freshwater and Saltwater Chronic Narcotic MOA	Not specified	1.064
78–87–5	EPA Region 4	Freshwater and Saltwater Acute, Narcotic MOA	Not specified	4.071
78–87–5	EPA Region 5	EPA RCRA Surface Water	Not specified	0.360
78–87–5	Illinois	Chronic – General Use	Not specified	0.380
78–87–5	Illinois	Acute – General Use	Not specified	4.800

Benchmark Values for Dichloropropane, 1,2- in Surface Water

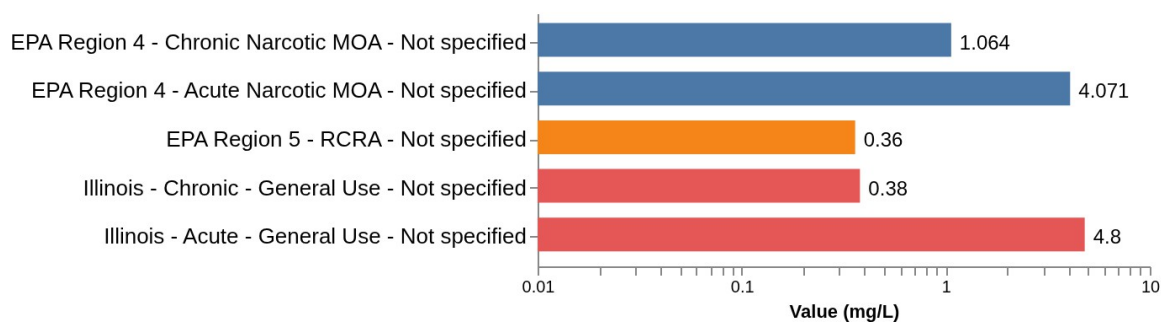


Table 194: Benchmark Values for Dichloropropane, 2,2– in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
594–20–7	Illinois	Chronic – General Use	Not specified	0.15	195
594–20–7	Illinois	Acute – General Use	Not specified	1.90	195

Benchmark Values for Dichloropropane, 2,2- in Surface Water

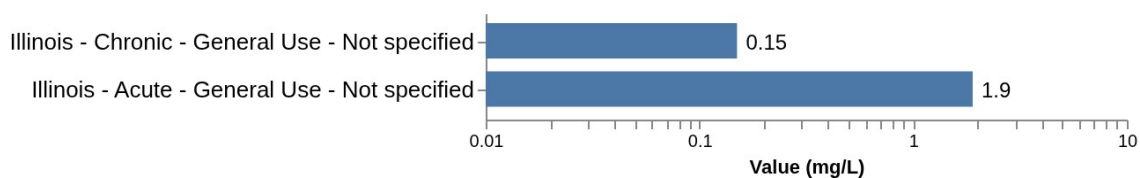


Table 195: Benchmark Values for Dichloropropene, 1,1– in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
563–58–6	Illinois	Chronic – General Use	Not specified	0.042	195
563–58–6	Illinois	Acute – General Use	Not specified	0.530	195

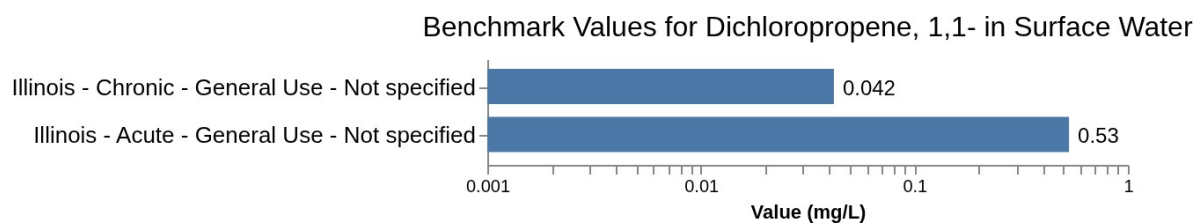


Table 196: Benchmark Values for Dichloropropene, 1,3- in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
542-75-6	Florida	Freshwater and Marine Water Contaminant Cleanup	Not specified	0.012000	
542-75-6	Illinois	Chronic – General Use	Not specified	0.007900	
542-75-6	Illinois	Acute – General Use	Not specified	0.099000	
542-75-6	ORNL	Tier II Secondary Chronic Value	Not specified	0.000055	
542-75-6	ORNL	Tier II Secondary Acute Value	Not specified	0.000990	
542-75-6	ORNL	EC25 Bass Population	Not specified	0.040000	
542-75-6	ORNL	SW Lowest Chronic Value – All Organisms	Not specified	0.244000	
542-75-6	ORNL	SW Lowest Chronic Value – Fish	Not specified	0.244000	
542-75-6	ORNL	EC20 Fish	Not specified	0.350000	29
542-75-6	ORNL	SW Lowest Chronic Value – Daphnids	Not specified	0.805000	24
542-75-6	ORNL	SW Lowest Chronic Value – Aquatic Plants	Not specified	4.950000	

Benchmark Values for Dichloropropene, 1,3- in Surface Water

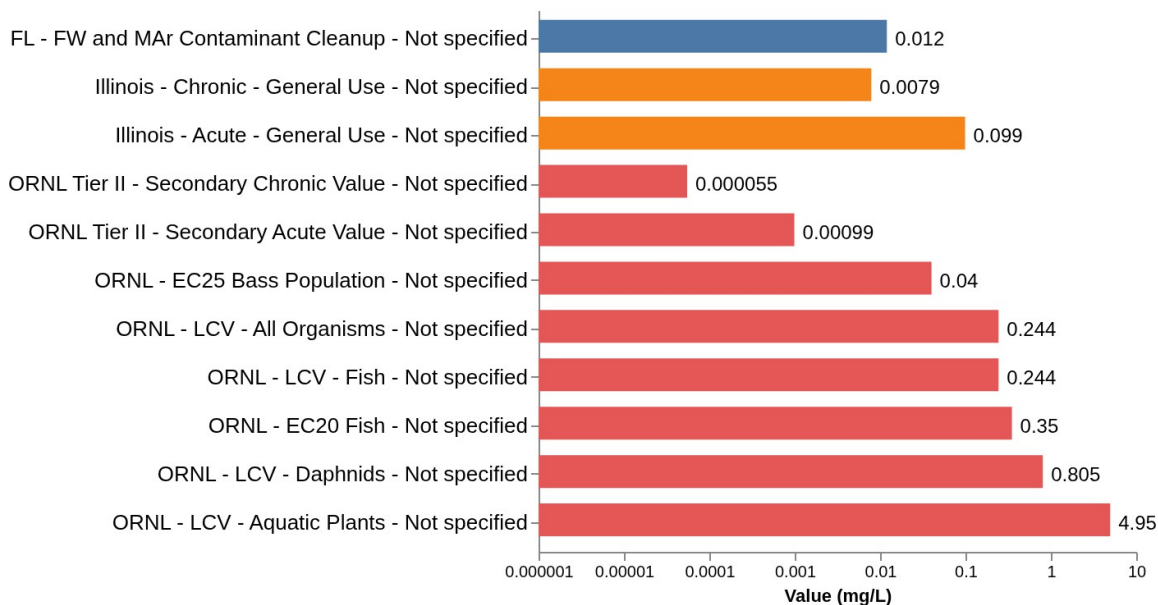


Table 197: Benchmark Values for Dichloropropene, cis-1,3- in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
10061-01-5	ORNL	Tier II Secondary Chronic Value	Not specified	0.000055
10061-01-5	ORNL	Tier II Secondary Acute Value	Not specified	0.000990

Benchmark Values for Dichloropropene, cis-1,3- in Surface Water

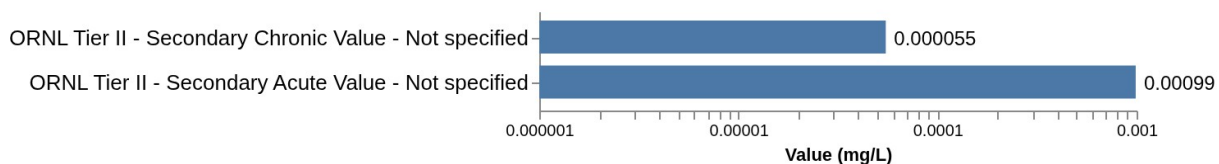


Table 198: Benchmark Values for Dichloropropene, trans-1,3- in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
10061-02-6	ORNL	Tier II Secondary Chronic Value	Not specified	0.000055
10061-02-6	ORNL	Tier II Secondary Acute Value	Not specified	0.000990

Benchmark Values for Dichloropropene, trans-1,3- in Surface Water

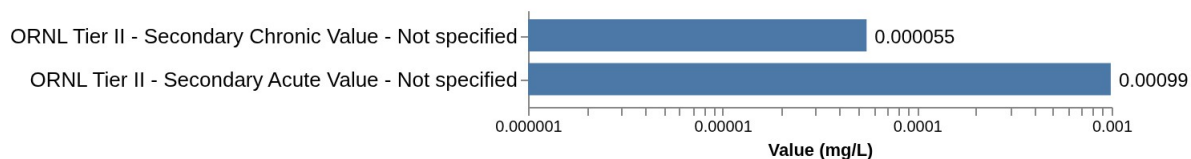


Table 199: Benchmark Values for Dichlorvos in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
62-73-7	Florida	Freshwater and Marine Water Contaminant Cleanup	Not specified	0.000005

Benchmark Values for Dichlorvos in Surface Water

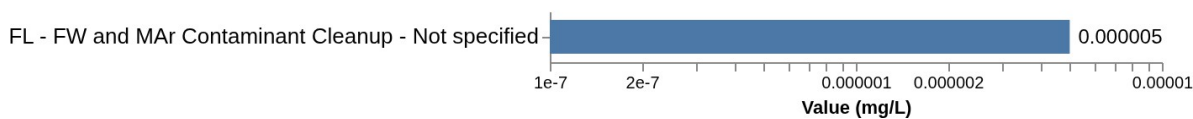


Table 200: Benchmark Values for Diclofop-methyl in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
51338-27-3	Canada	Water Irrigation	Not specified	0.00018
51338-27-3	Canada	Water Livestock	Not specified	0.00900

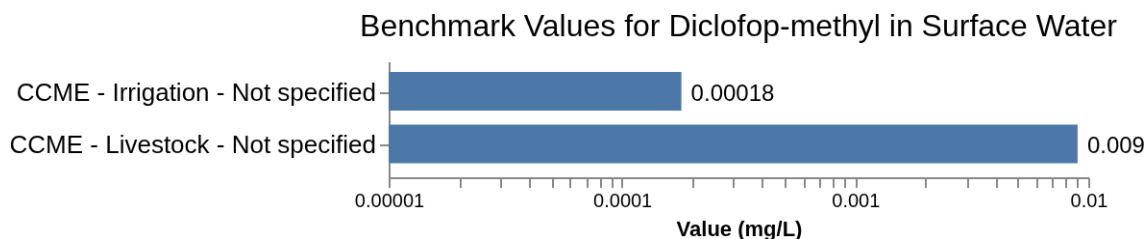


Table 201: Benchmark Values for Dicofol in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
115-32-2	Florida	Freshwater and Marine Water Contaminant Cleanup	Not specified	0.000006

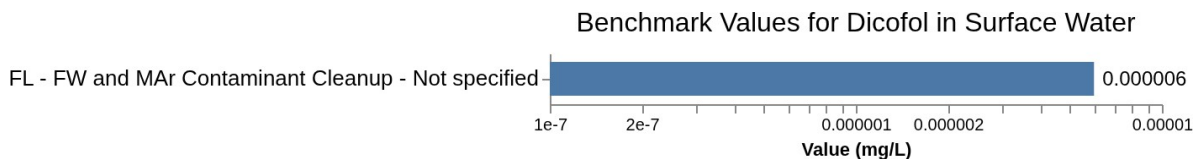


Table 202: Benchmark Values for Dicrotophos in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
141-66-2	Florida	Freshwater and Marine Water Contaminant Cleanup	Not specified	0.022

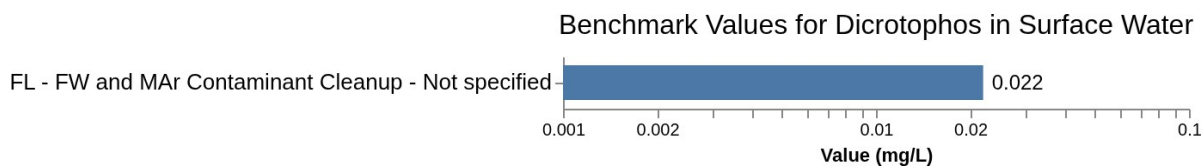


Table 203: Benchmark Values for Dieldrin in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
60-57-1	EPA Region 5	EPA RCRA Surface Water	Not specified	7.100000e-08	
60-57-1	Florida	SWQS for Shellfish Propagation or Harvesting	Not specified	1.400000e-07	
60-57-1	Illinois	Chronic – General Use	Not specified	5.600000e-05	196, 197
60-57-1	Illinois	Acute – General Use	Not specified	2.400000e-04	196
60-57-1	LANL ECORISK	Surface Water No Effect ESL	Aquatic community organisms	5.600000e-05	
60-57-1	LANL ECORISK	Surface Water Low Effect ESL	Aquatic community organisms	2.400000e-04	
60-57-1	LANL ECORISK	Surface Water No Effect ESL	Montane shrew	8.900000e-02	
60-57-1	LANL ECORISK	Surface Water No Effect ESL	Deer mouse	1.000000e-01	
60-57-1	LANL ECORISK	Surface Water No Effect ESL	Occult little brown myotis bat	1.200000e-01	
60-57-1	LANL ECORISK	Surface Water No Effect ESL	Mountain cottontail	2.000000e-01	
60-57-1	LANL ECORISK	Surface Water No Effect ESL	Gray fox	2.300000e-01	
60-57-1	LANL ECORISK	Surface Water No Effect ESL	Violet-green swallow	3.100000e-01	
60-57-1	LANL ECORISK	Surface Water No Effect ESL	American robin	5.500000e-01	
60-57-1	LANL ECORISK	Surface Water No Effect ESL	American kestrel	6.400000e-01	
60-57-1	LANL ECORISK	Surface Water Low Effect ESL	Montane shrew	8.900000e-01	
60-57-1	LANL ECORISK	Surface Water Low Effect ESL	Deer mouse	1.000000e+00	
60-57-1	LANL ECORISK	Surface Water Low Effect ESL	Occult little brown myotis bat	1.200000e+00	
60-57-1	LANL ECORISK	Surface Water Low Effect ESL	Mountain cottontail	2.000000e+00	
60-57-1	LANL ECORISK	Surface Water Low Effect ESL	Gray fox	2.300000e+00	
60-57-1	LANL ECORISK	Surface Water Low Effect ESL	Violet-green swallow	3.100000e+00	
60-57-1	LANL ECORISK	Surface Water Low Effect ESL	American robin	5.500000e+00	
60-57-1	LANL ECORISK	Surface Water Low Effect ESL	American kestrel	6.400000e+00	
60-57-1	Ohio	OMZA	Not specified	5.600000e-05	192
60-57-1	Ohio	OMZM	Not specified	2.400000e-04	192
60-57-1	Ohio	IMZM	Not specified	4.700000e-04	192

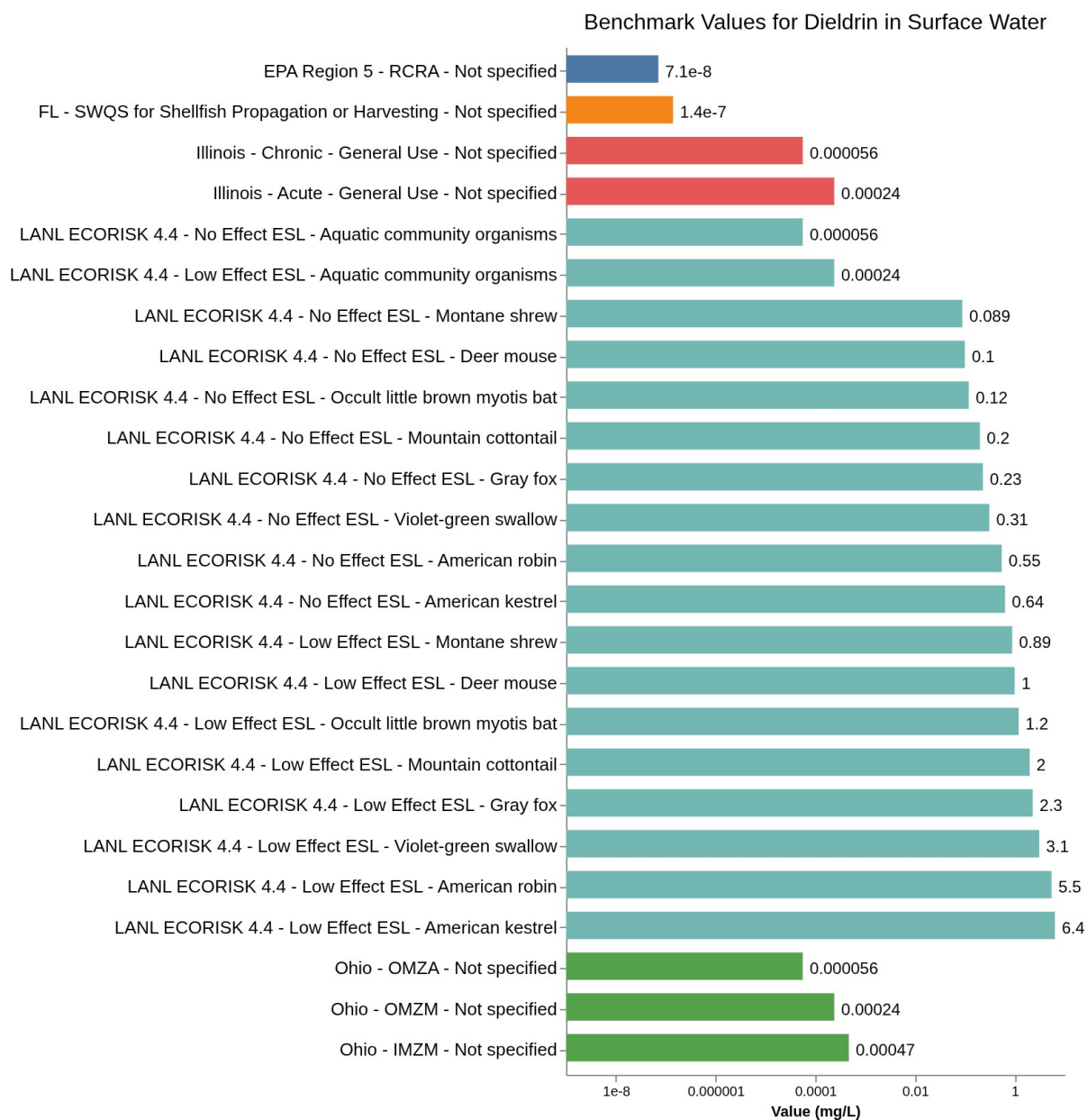


Table 204: Benchmark Values for Diethyl Phthalate in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
84-66-2	EPA Region 4	Freshwater and Saltwater Chronic Narcotic MOA	Not specified	0.819
84-66-2	EPA Region 4	Freshwater and Saltwater Acute, Narcotic MOA	Not specified	4.648
84-66-2	EPA Region 5	EPA RCRA Surface Water	Not specified	0.110
84-66-2	Florida	Freshwater and Marine Water Contaminant Cleanup	Not specified	0.380
84-66-2	Illinois	Chronic – General Use	Not specified	0.250
84-66-2	Illinois	Acute – General Use	Not specified	3.200
84-66-2	ORNL	Tier II Secondary Chronic Value	Not specified	0.210
84-66-2	ORNL	EC25 Bass Population	Not specified	1.000
84-66-2	ORNL	Tier II Secondary Acute Value	Not specified	1.800
84-66-2	ORNL	SW Lowest Chronic Value – Aquatic Plants	Not specified	85.600
84-66-2	ORNL	SW Lowest Chronic Value – All Organisms	Not specified	85.600

Benchmark Values for Diethyl Phthalate in Surface Water

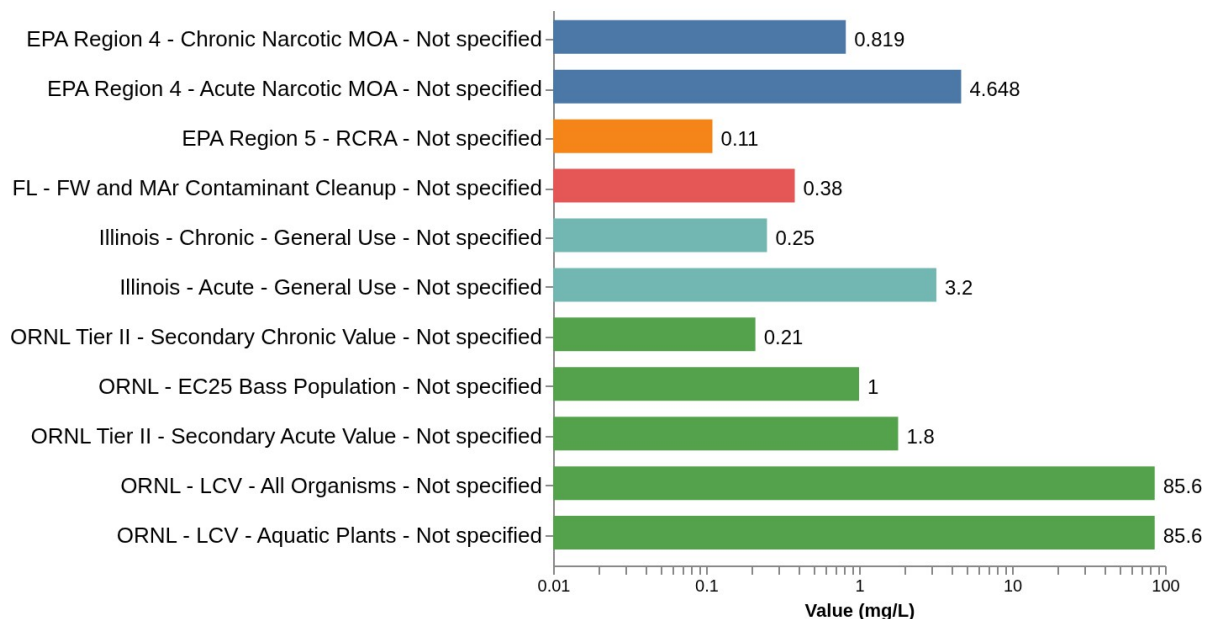


Table 205: Benchmark Values for Diethylaminoethanol in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
100-37-8	Illinois	Chronic – General Use	Not specified	11.0	195
100-37-8	Illinois	Acute – General Use	Not specified	140.0	195

Benchmark Values for Diethylaminoethanol in Surface Water

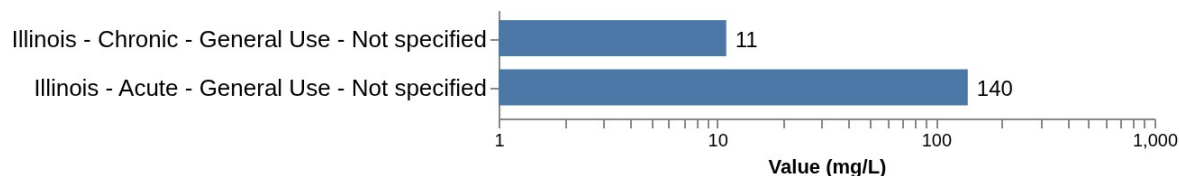


Table 206: Benchmark Values for Diethylene glycol dimethyl ether in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
111-96-6	Illinois	Chronic – General Use	Not specified	28.0	195
111-96-6	Illinois	Acute – General Use	Not specified	340.0	195

Benchmark Values for Diethylene glycol dimethyl ether in Surface Water

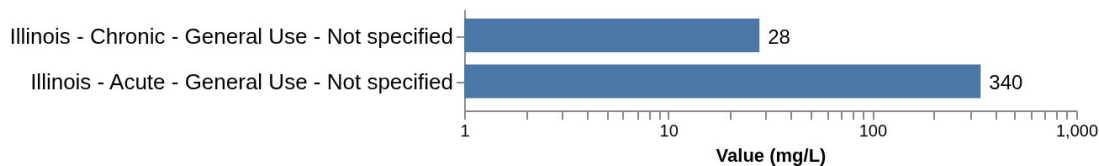


Table 207: Benchmark Values for Diethylene Glycol Monoethyl Ether in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
111-90-0	Florida	Freshwater and Marine Water Contaminant Cleanup	Not specified	170.0

Benchmark Values for Diethylene Glycol Monoethyl Ether in Surface Water

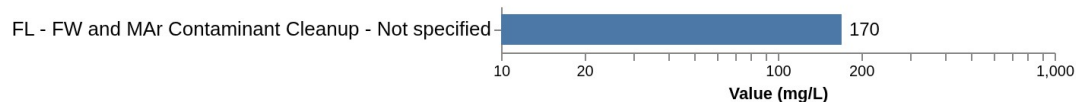


Table 208: Benchmark Values for Diisopropanolamine in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
110-97-4	British Columbia	Irrigation STA	Not specified	3.9	
110-97-4	British Columbia	Livestock STA	Not specified	38.0	
110-97-4	Canada	Water Irrigation	Not specified	2.0	

Benchmark Values for Diisopropanolamine in Surface Water

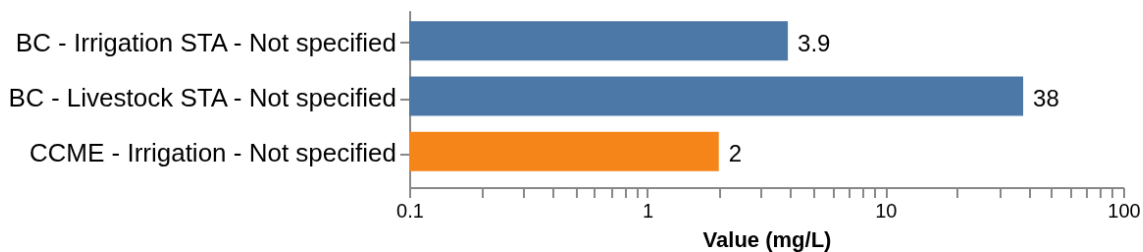


Table 209: Benchmark Values for Diisopropyl Methylphosphonate in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
1445-75-6	Florida	Freshwater and Marine Water Contaminant Cleanup	Not specified	13.0

Benchmark Values for Diisopropyl Methylphosphonate in Surface Water

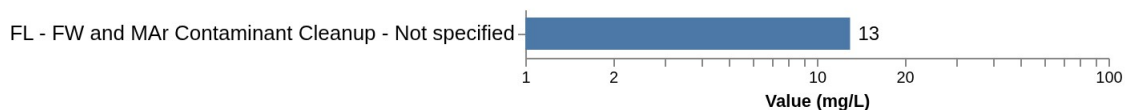


Table 210: Benchmark Values for Dimethoate in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
60-51-5	Canada	Water Livestock	Not specified	0.0030
60-51-5	Florida	Freshwater and Marine Water Contaminant Cleanup	Not specified	0.0001

Benchmark Values for Dimethoate in Surface Water

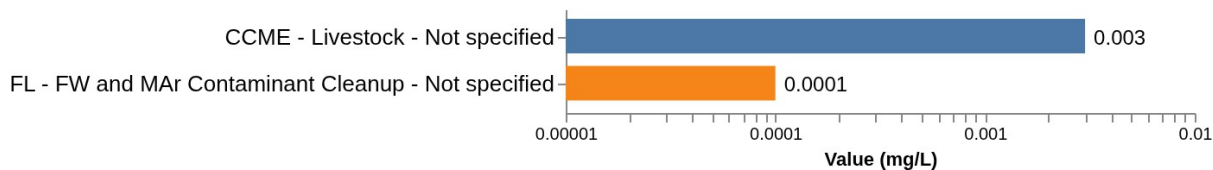


Table 211: Benchmark Values for Dimethrin in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
70-38-2	Florida	Freshwater and Marine Water Contaminant Cleanup	Not specified	0.0011

Benchmark Values for Dimethrin in Surface Water

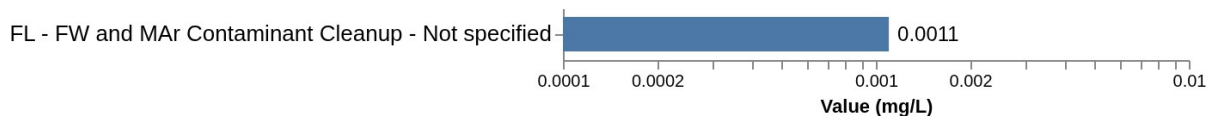


Table 212: Benchmark Values for Dimethylamino azobenzene [p-] in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
60-11-7	EPA Region 5	EPA RCRA Surface Water	Not specified	0.00165

Benchmark Values for Dimethylamino azobenzene [p-] in Surface Water

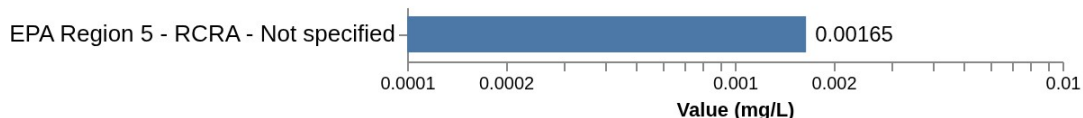


Table 213: Benchmark Values for Dimethylaniline, 2,4- in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
95-68-1	Florida	Freshwater and Marine Water Contaminant Cleanup	Not specified	1.7

Benchmark Values for Dimethylaniline, 2,4- in Surface Water

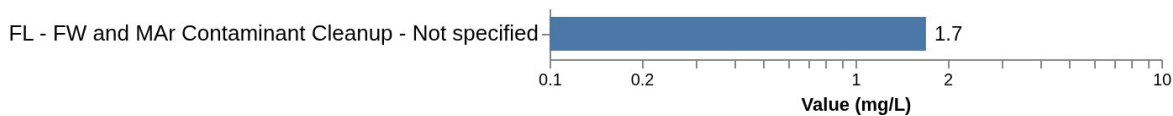


Table 214: Benchmark Values for Dimethylaniline, N,N- in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
121-69-7	Florida	Freshwater and Marine Water Contaminant Cleanup	Not specified	1.7

Benchmark Values for Dimethylaniline, N,N- in Surface Water

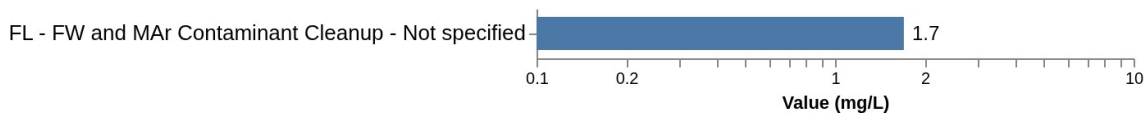


Table 215: Benchmark Values for Dimethylantracene, 9,10– in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
781–43–1	EPA ESBs	Final Chronic Value	Not specified	0.002971

Benchmark Values for Dimethylantracene, 9,10- in Surface Water

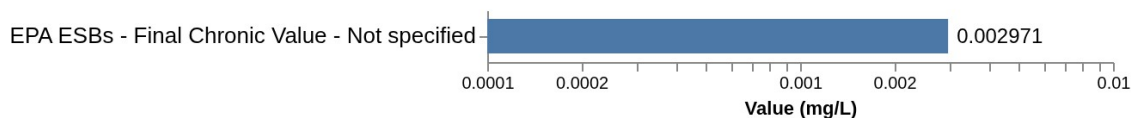


Table 216: Benchmark Values for Dimethylbenz[a]anthracene, 7,12– in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
57–97–6	EPA ESBs	Final Chronic Value	Not specified	0.000351
57–97–6	EPA Region 5	EPA RCRA Surface Water	Not specified	0.000548

Benchmark Values for Dimethylbenz[a]anthracene, 7,12- in Surface Water

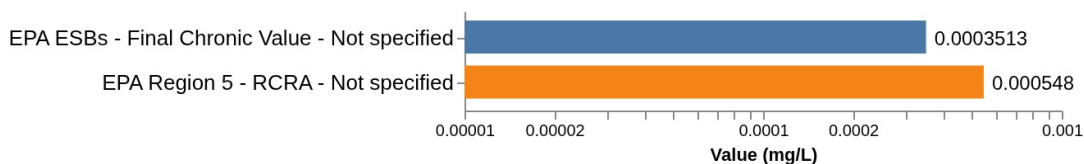


Table 217: Benchmark Values for Dimethylbenz[a]anthracene, 9,10– in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
58429–99–5	EPA ESBs	Final Chronic Value	Not specified	0.000358

Benchmark Values for Dimethylbenz[a]anthracene, 9,10- in Surface Water

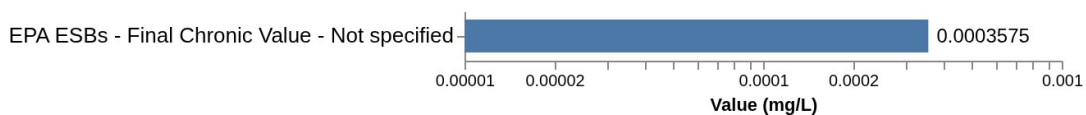


Table 218: Benchmark Values for Dimethylformamide in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
68-12-2	Florida	Freshwater and Marine Water Contaminant Cleanup	Not specified	50.0
68-12-2	Illinois	Chronic – General Use	Not specified	120.0
68-12-2	Illinois	Acute – General Use	Not specified	1500.0

Benchmark Values for Dimethylformamide in Surface Water

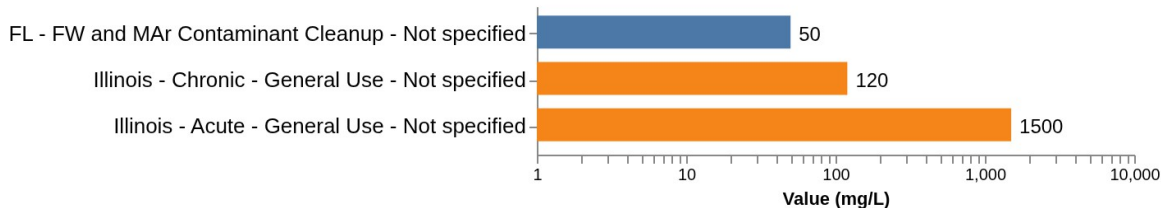


Table 219: Benchmark Values for Dimethylnaphthalene, 1,3- in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
575-41-7	EPA ESBs	Final Chronic Value	Not specified	0.02613

Benchmark Values for Dimethylnaphthalene, 1,3- in Surface Water

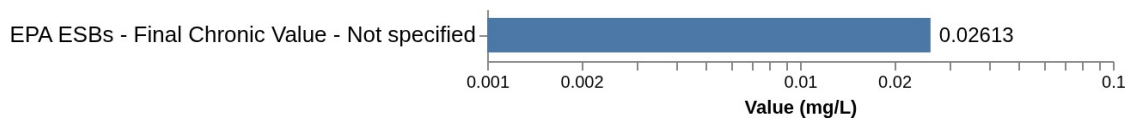


Table 220: Benchmark Values for Dimethylnaphthalene, 1,4- in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
571-58-4	EPA ESBs	Final Chronic Value	Not specified	0.03024

Benchmark Values for Dimethylnaphthalene, 1,4- in Surface Water

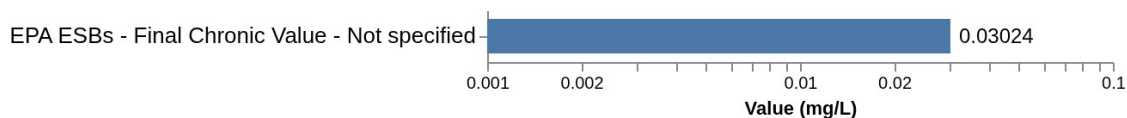


Table 221: Benchmark Values for Dimethylnaphthalene, 1,5- in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
571-61-9	EPA ESBs	Final Chronic Value	Not specified	0.02552

Benchmark Values for Dimethylnaphthalene, 1,5- in Surface Water

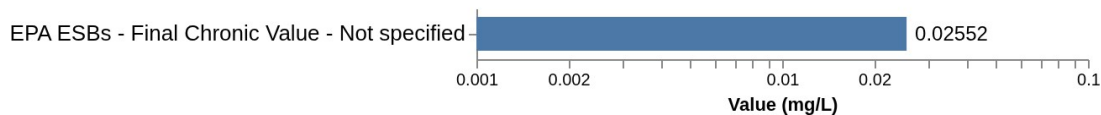


Table 222: Benchmark Values for Dimethylnaphthalene, 2,3- in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
581-40-8	EPA ESBs	Final Chronic Value	Not specified	0.02574

Benchmark Values for Dimethylnaphthalene, 2,3- in Surface Water

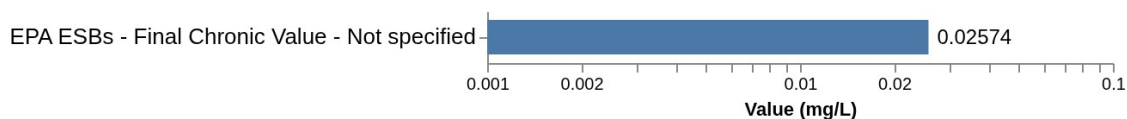


Table 223: Benchmark Values for Dimethylnaphthalene, 2,6- in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
581-42-0	EPA ESBs	Final Chronic Value	Not specified	0.02579
581-42-0	EPA Region 4	Freshwater and Saltwater Acute for PAHs	Not specified	0.00000
581-42-0	EPA Region 4	Freshwater and Saltwater Chronic for PAHs	Not specified	0.02600

Benchmark Values for Dimethylnaphthalene, 2,6- in Surface Water

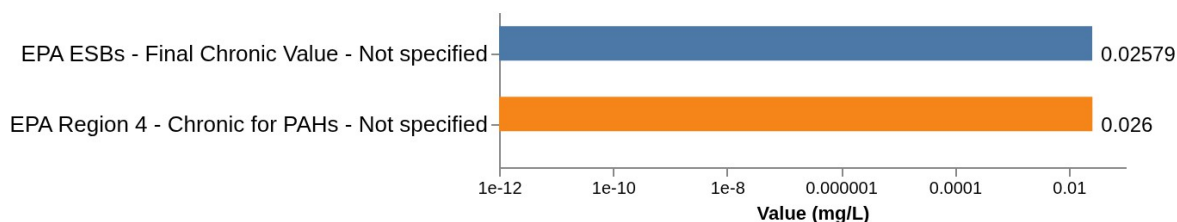


Table 224: Benchmark Values for Dimethylphenanthrene, 3,6- in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
1576-67-6	EPA ESBs	Final Chronic Value	Not specified	0.002838

Benchmark Values for Dimethylphenanthrene, 3,6- in Surface Water

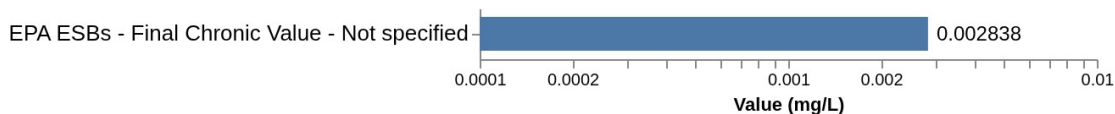


Table 225: Benchmark Values for Dimethylphenol, 2,4- in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
105-67-9	EPA Region 5	EPA RCRA Surface Water	Not specified	0.10
105-67-9	Florida	Freshwater and Marine Water Contaminant Cleanup	Not specified	0.16
105-67-9	Illinois	Chronic – General Use	Not specified	0.22
105-67-9	Illinois	Acute – General Use	Not specified	0.74

Benchmark Values for Dimethylphenol, 2,4- in Surface Water

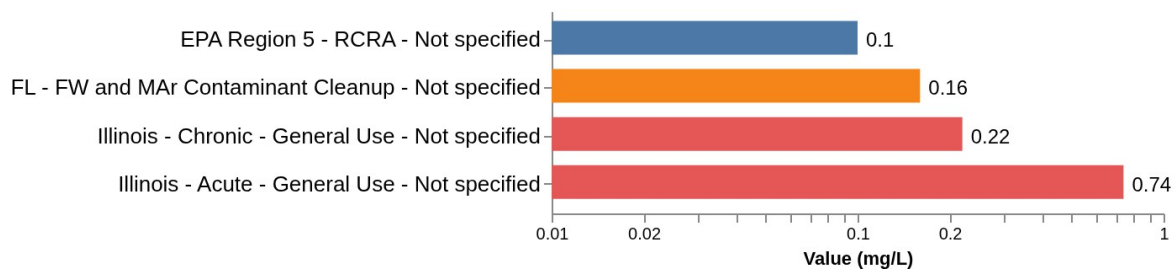


Table 226: Benchmark Values for Dimethylphenol, 2,6- in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
576-26-1	Florida	Freshwater and Marine Water Contaminant Cleanup	Not specified	0.56

Benchmark Values for Dimethylphenol, 2,6- in Surface Water

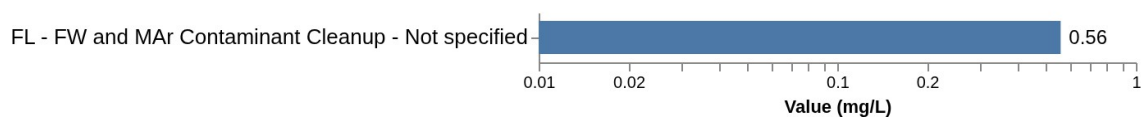


Table 227: Benchmark Values for Dimethylphthalate in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
131-11-3	EPA Region 4	Freshwater and Saltwater Chronic Narcotic MOA	Not specified	3.295
131-11-3	EPA Region 4	Freshwater and Saltwater Acute, Narcotic MOA	Not specified	19.747
131-11-3	Florida	Freshwater and Marine Water Contaminant Cleanup	Not specified	1.400
131-11-3	Illinois	Chronic – General Use	Not specified	0.260
131-11-3	Illinois	Acute – General Use	Not specified	3.300
131-11-3	LANL ECORISK	Surface Water No Effect ESL	Aquatic community organisms	0.003
131-11-3	LANL ECORISK	Surface Water Low Effect ESL	Aquatic community organisms	0.030
131-11-3	LANL ECORISK	Surface Water No Effect ESL	Montane shrew	300.000
131-11-3	LANL ECORISK	Surface Water No Effect ESL	Deer mouse	350.000
131-11-3	LANL ECORISK	Surface Water No Effect ESL	Occult little brown myotis bat	420.000
131-11-3	LANL ECORISK	Surface Water No Effect ESL	Mountain cottontail	700.000
131-11-3	LANL ECORISK	Surface Water No Effect ESL	Gray fox	790.000
131-11-3	LANL ECORISK	Surface Water Low Effect ESL	Montane shrew	3000.000
131-11-3	LANL ECORISK	Surface Water Low Effect ESL	Deer mouse	3500.000
131-11-3	LANL ECORISK	Surface Water Low Effect ESL	Occult little brown myotis bat	4200.000
131-11-3	LANL ECORISK	Surface Water Low Effect ESL	Mountain cottontail	7000.000
131-11-3	LANL ECORISK	Surface Water Low Effect ESL	Gray fox	7900.000

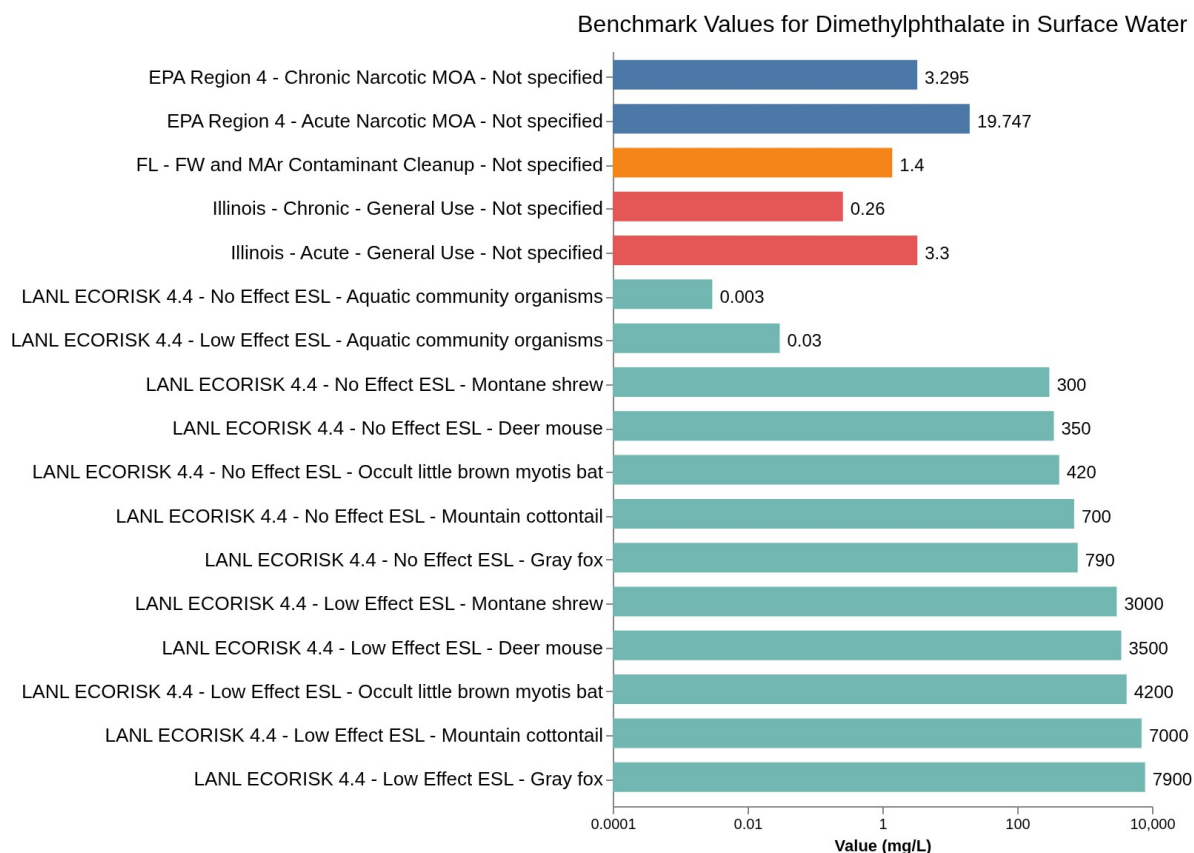


Table 228: Benchmark Values for Dinitrobenzene, 1,2– in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
528–29–0	Florida	Freshwater and Marine Water Contaminant Cleanup	Not specified	0.03

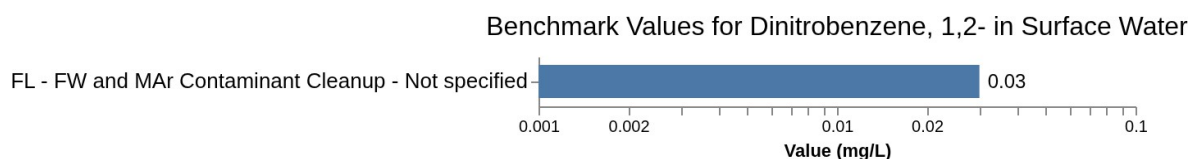


Table 229: Benchmark Values for Dinitrobenzene, 1,3– in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
99–65–0	EPA Region 5	EPA RCRA Surface Water	Not specified	0.022
99–65–0	Florida	Freshwater and Marine Water Contaminant Cleanup	Not specified	0.072
99–65–0	Illinois	Chronic – General Use	Not specified	0.004
99–65–0	Illinois	Acute – General Use	Not specified	0.140
99–65–0	LANL ECORISK	Surface Water No Effect ESL	Aquatic community organisms	0.016
99–65–0	LANL ECORISK	Surface Water Low Effect ESL	Aquatic community organisms	0.160
99–65–0	LANL ECORISK	Surface Water No Effect ESL	Montane shrew	0.500
99–65–0	LANL ECORISK	Surface Water No Effect ESL	Deer mouse	0.590
99–65–0	LANL ECORISK	Surface Water No Effect ESL	Occult little brown myotis bat	0.710
99–65–0	LANL ECORISK	Surface Water No Effect ESL	Mountain cottontail	1.100
99–65–0	LANL ECORISK	Surface Water Low Effect ESL	Montane shrew	1.100
99–65–0	LANL ECORISK	Surface Water No Effect ESL	Gray fox	1.300
99–65–0	LANL ECORISK	Surface Water Low Effect ESL	Deer mouse	1.300
99–65–0	LANL ECORISK	Surface Water Low Effect ESL	Occult little brown myotis bat	1.600
99–65–0	LANL ECORISK	Surface Water No Effect ESL	Violet–green swallow	1.700
99–65–0	LANL ECORISK	Surface Water Low Effect ESL	Mountain cottontail	2.700
99–65–0	LANL ECORISK	Surface Water No Effect ESL	American robin	3.000
99–65–0	LANL ECORISK	Surface Water Low Effect ESL	Gray fox	3.000
99–65–0	LANL ECORISK	Surface Water No Effect ESL	American kestrel	3.500
99–65–0	LANL ECORISK	Surface Water Low Effect ESL	Violet–green swallow	17.000
99–65–0	LANL ECORISK	Surface Water Low Effect ESL	American robin	30.000
99–65–0	LANL ECORISK	Surface Water Low Effect ESL	American kestrel	35.000

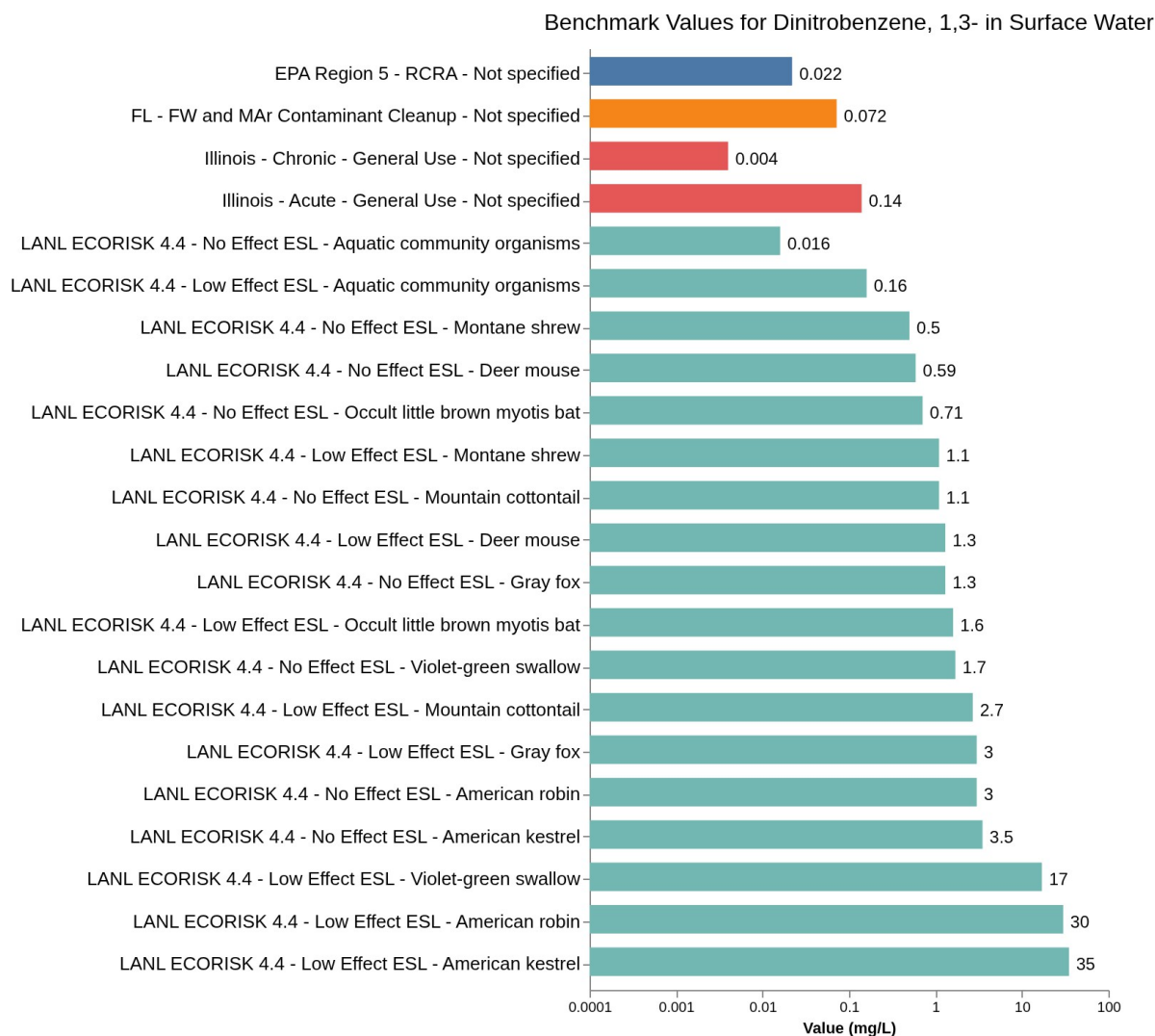


Table 230: Benchmark Values for Dinitrobenzene, 1,4- in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
100–25–4	Florida	Freshwater and Marine Water Contaminant Cleanup	Not specified	0.03

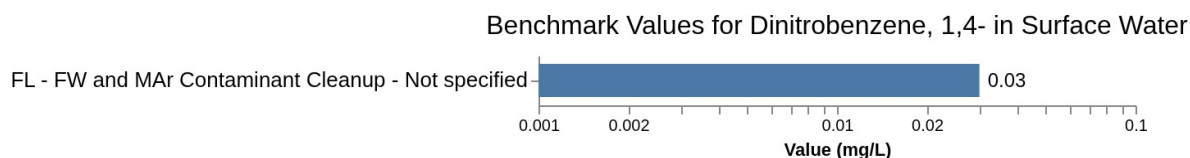


Table 231: Benchmark Values for Dinitro-o-cresol, 4,6- in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
534-52-1	EPA Region 5	EPA RCRA Surface Water	Not specified	0.0230
534-52-1	Illinois	Chronic – General Use	Not specified	0.0023
534-52-1	Illinois	Acute – General Use	Not specified	0.0290

Benchmark Values for Dinitro-o-cresol, 4,6- in Surface Water

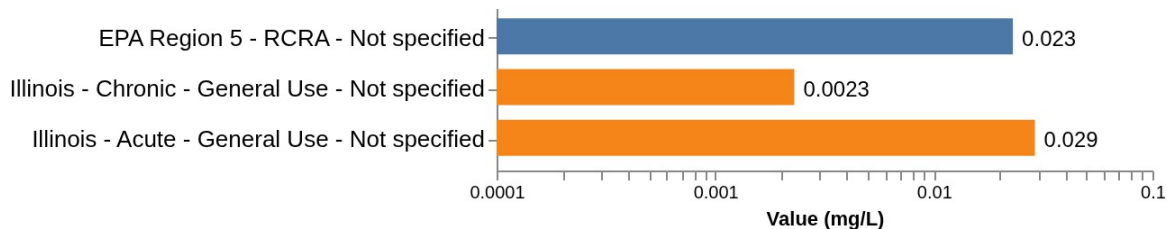


Table 232: Benchmark Values for Dinitrophenol, 2,4- in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
51-28-5	EPA Region 5	EPA RCRA Surface Water	Not specified	0.0190
51-28-5	Florida	Freshwater and Marine Water Contaminant Cleanup	Not specified	0.0030
51-28-5	Florida	SWQS for Shellfish Propagation or Harvesting	Not specified	14.2600
51-28-5	Illinois	Chronic – General Use	Not specified	0.0041
51-28-5	Illinois	Acute – General Use	Not specified	0.0850

Benchmark Values for Dinitrophenol, 2,4- in Surface Water

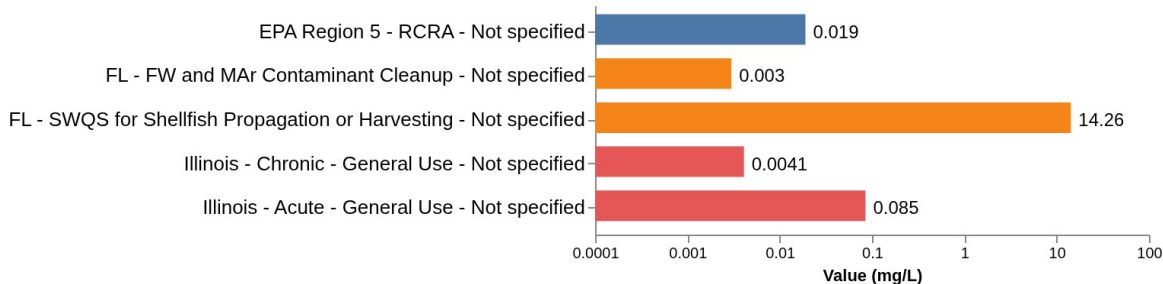


Table 233: Benchmark Values for Dinitrotoluene, 2,4- in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
121-14-2	EPA Region 5	EPA RCRA Surface Water	Not specified	0.0440
121-14-2	Florida	SWQS for Shellfish Propagation or Harvesting	Not specified	0.0091
121-14-2	Illinois	Chronic – General Use	Not specified	0.3200
121-14-2	Illinois	Acute – General Use	Not specified	5.0000
121-14-2	LANL ECORISK	Surface Water No Effect ESL	Aquatic community organisms	0.0650
121-14-2	LANL ECORISK	Surface Water Low Effect ESL	Aquatic community organisms	0.3300
121-14-2	LANL ECORISK	Surface Water No Effect ESL	Montane shrew	12.0000
121-14-2	LANL ECORISK	Surface Water No Effect ESL	Deer mouse	14.0000
121-14-2	LANL ECORISK	Surface Water No Effect ESL	Occult little brown myotis bat	16.0000
121-14-2	LANL ECORISK	Surface Water No Effect ESL	Mountain cottontail	27.0000
121-14-2	LANL ECORISK	Surface Water No Effect ESL	Gray fox	31.0000
121-14-2	LANL ECORISK	Surface Water Low Effect ESL	Montane shrew	120.0000
121-14-2	LANL ECORISK	Surface Water Low Effect ESL	Deer mouse	140.0000
121-14-2	LANL ECORISK	Surface Water Low Effect ESL	Occult little brown myotis bat	160.0000
121-14-2	LANL ECORISK	Surface Water Low Effect ESL	Mountain cottontail	270.0000
121-14-2	LANL ECORISK	Surface Water Low Effect ESL	Gray fox	310.0000

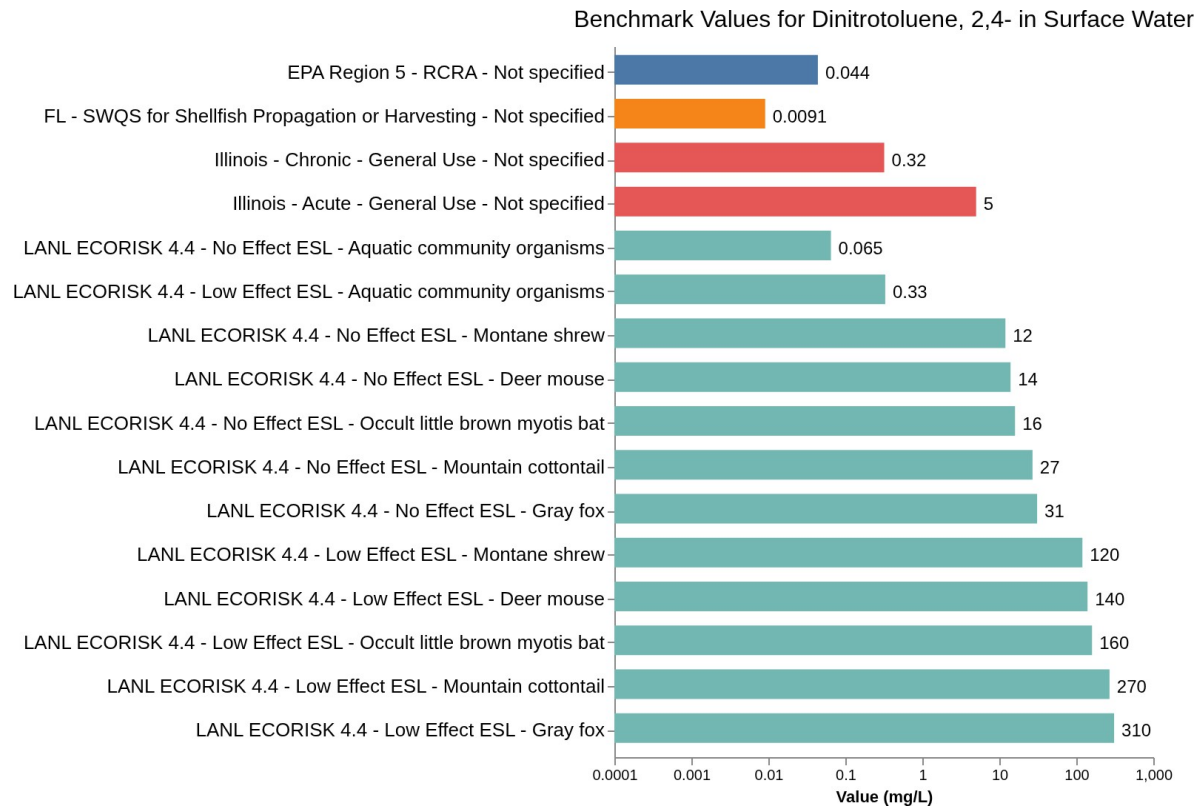


Table 234: Benchmark Values for Dinitrotoluene, 2,6- in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
606-20-2	EPA Region 5	EPA RCRA Surface Water	Not specified	0.081
606-20-2	Illinois	Chronic – General Use	Not specified	0.150
606-20-2	Illinois	Acute – General Use	Not specified	1.900
606-20-2	LANL ECORISK	Surface Water No Effect ESL	Aquatic community organisms	0.230
606-20-2	LANL ECORISK	Surface Water Low Effect ESL	Aquatic community organisms	0.330
606-20-2	LANL ECORISK	Surface Water No Effect ESL	Montane shrew	7.900
606-20-2	LANL ECORISK	Surface Water No Effect ESL	Deer mouse	9.300
606-20-2	LANL ECORISK	Surface Water No Effect ESL	Occult little brown myotis bat	11.000
606-20-2	LANL ECORISK	Surface Water No Effect ESL	Mountain cottontail	18.000
606-20-2	LANL ECORISK	Surface Water No Effect ESL	Gray fox	20.000
606-20-2	LANL ECORISK	Surface Water Low Effect ESL	Montane shrew	79.000
606-20-2	LANL ECORISK	Surface Water Low Effect ESL	Deer mouse	93.000
606-20-2	LANL ECORISK	Surface Water Low Effect ESL	Occult little brown myotis bat	110.000
606-20-2	LANL ECORISK	Surface Water Low Effect ESL	Mountain cottontail	180.000
606-20-2	LANL ECORISK	Surface Water Low Effect ESL	Gray fox	200.000

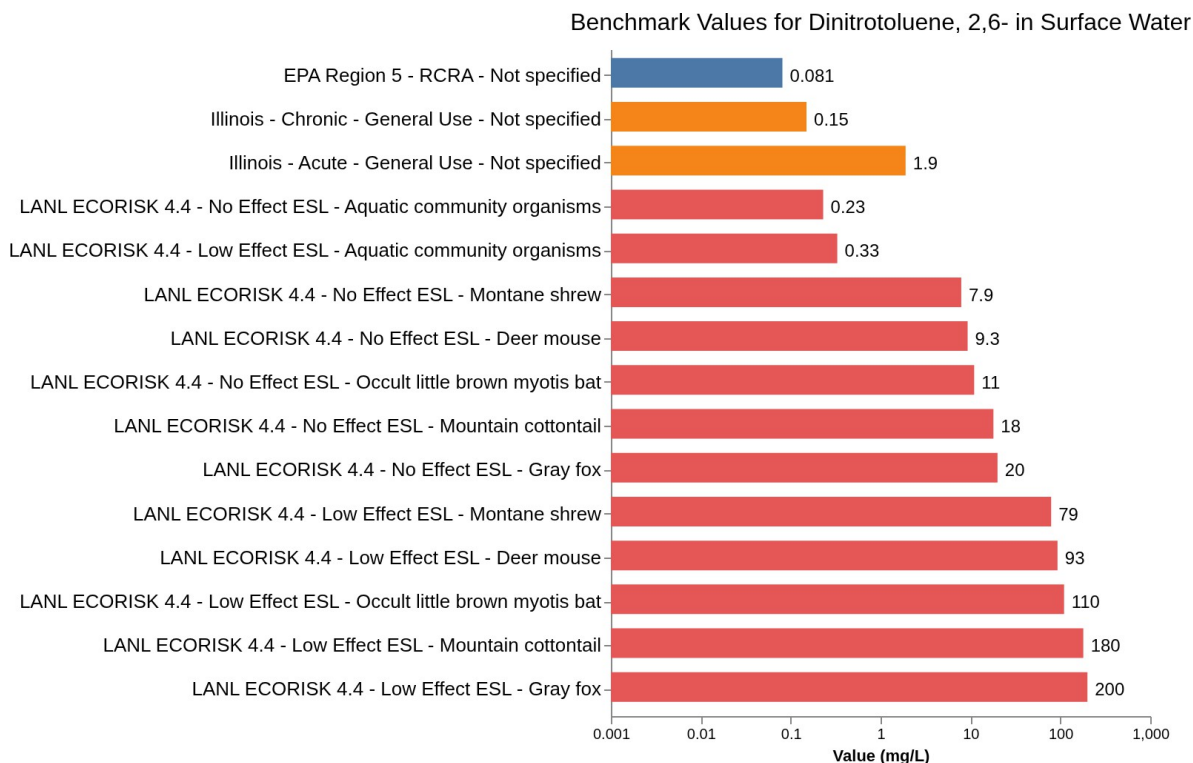


Table 235: Benchmark Values for Dinitrotoluene, 2-Amino-4,6- in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
35572-78-2	Illinois	Chronic – General Use	Not specified	0.0079
35572-78-2	Illinois	Acute – General Use	Not specified	0.0980
35572-78-2	LANL ECORISK	Surface Water No Effect ESL	Montane shrew	62.0000
35572-78-2	LANL ECORISK	Surface Water No Effect ESL	Deer mouse	73.0000
35572-78-2	LANL ECORISK	Surface Water No Effect ESL	Occult little brown myotis bat	87.0000
35572-78-2	LANL ECORISK	Surface Water No Effect ESL	Mountain cottontail	140.0000
35572-78-2	LANL ECORISK	Surface Water No Effect ESL	Gray fox	160.0000
35572-78-2	LANL ECORISK	Surface Water Low Effect ESL	Montane shrew	620.0000
35572-78-2	LANL ECORISK	Surface Water Low Effect ESL	Deer mouse	730.0000
35572-78-2	LANL ECORISK	Surface Water Low Effect ESL	Occult little brown myotis bat	870.0000
35572-78-2	LANL ECORISK	Surface Water Low Effect ESL	Mountain cottontail	1400.0000
35572-78-2	LANL ECORISK	Surface Water Low Effect ESL	Gray fox	1600.0000

Benchmark Values for Dinitrotoluene, 2-Amino-4,6- in Surface Water

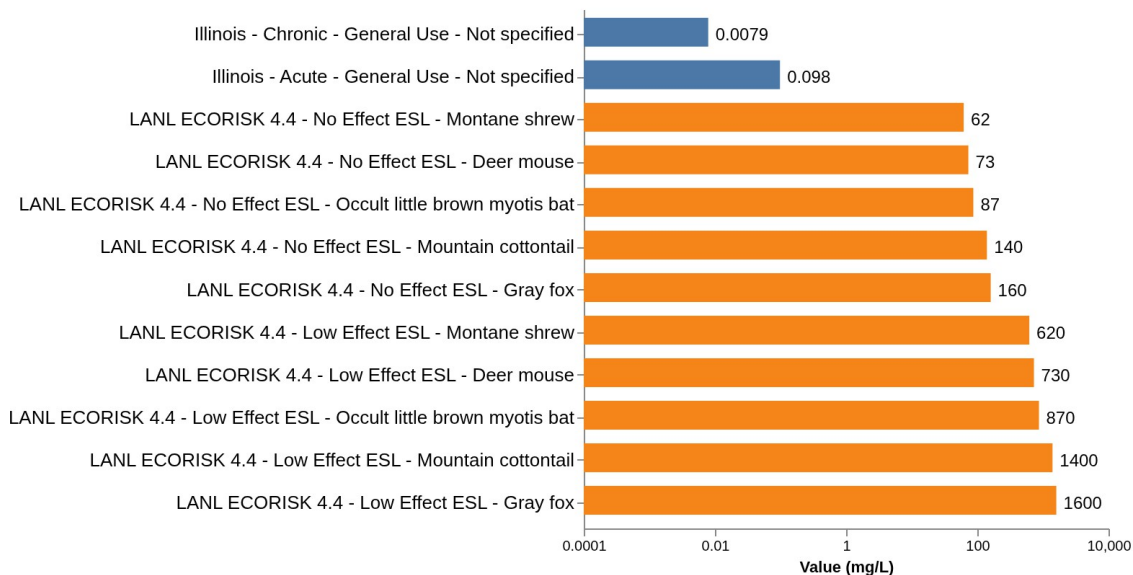


Table 236: Benchmark Values for Dinitrotoluene, 4-Amino-2,6- in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
19406-51-0	Illinois	Chronic – General Use	Not specified	0.014	
19406-51-0	Illinois	Acute – General Use	Not specified	0.180	
19406-51-0	LANL ECORISK	Surface Water No Effect ESL	Montane shrew	43.000	
19406-51-0	LANL ECORISK	Surface Water No Effect ESL	Deer mouse	50.000	
19406-51-0	LANL ECORISK	Surface Water No Effect ESL	Occult little brown myotis bat	60.000	
19406-51-0	LANL ECORISK	Surface Water No Effect ESL	Mountain cottontail	98.000	
19406-51-0	LANL ECORISK	Surface Water No Effect ESL	Gray fox	110.000	
19406-51-0	LANL ECORISK	Surface Water Low Effect ESL	Montane shrew	430.000	
19406-51-0	LANL ECORISK	Surface Water Low Effect ESL	Deer mouse	500.000	
19406-51-0	LANL ECORISK	Surface Water Low Effect ESL	Occult little brown myotis bat	600.000	
19406-51-0	LANL ECORISK	Surface Water Low Effect ESL	Mountain cottontail	980.000	
19406-51-0	LANL ECORISK	Surface Water Low Effect ESL	Gray fox	1100.000	

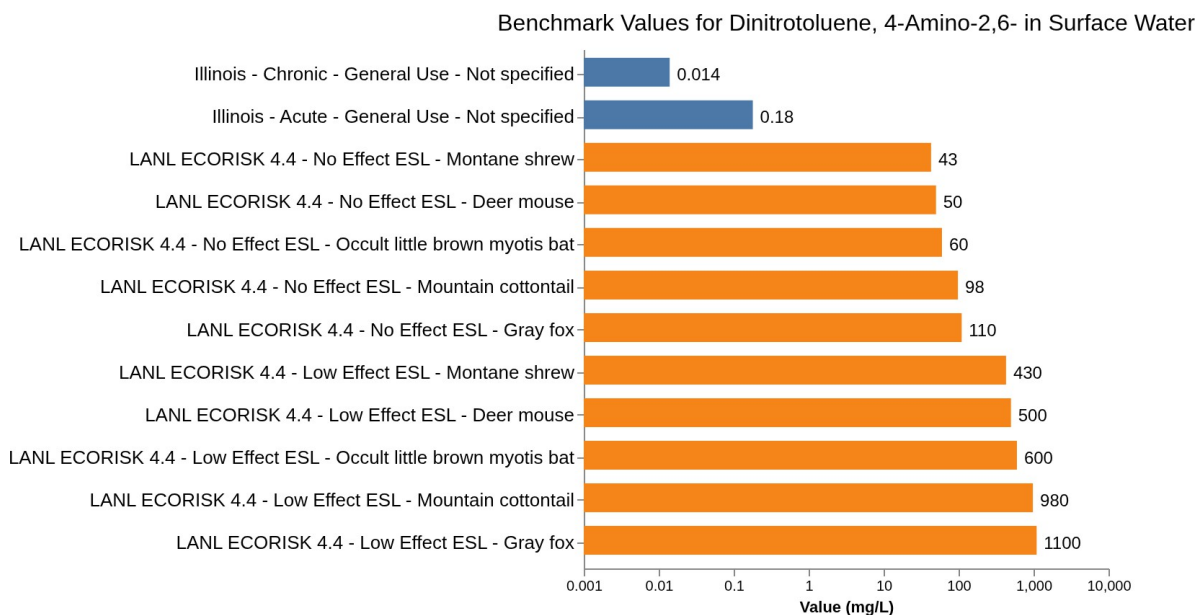


Table 237: Benchmark Values for Dinoseb in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
88-85-7	Canada	Water Irrigation	Not specified	0.01600	68
88-85-7	Canada	Water Livestock	Not specified	0.15000	
88-85-7	EPA Region 5	EPA RCRA Surface Water	Not specified	0.00048	
88-85-7	Florida	Freshwater and Marine Water Contaminant Cleanup	Not specified	0.00590	

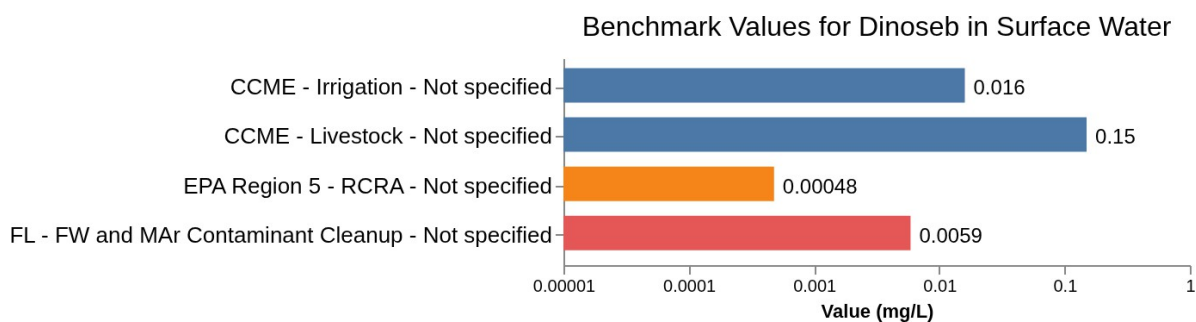


Table 238: Benchmark Values for Dioxane, 1,4- in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
123-91-1	EPA Region 5	EPA RCRA Surface Water	Not specified	22.0	
123-91-1	Illinois	Chronic – General Use	Not specified	36.0	195
123-91-1	Illinois	Acute – General Use	Not specified	440.0	195

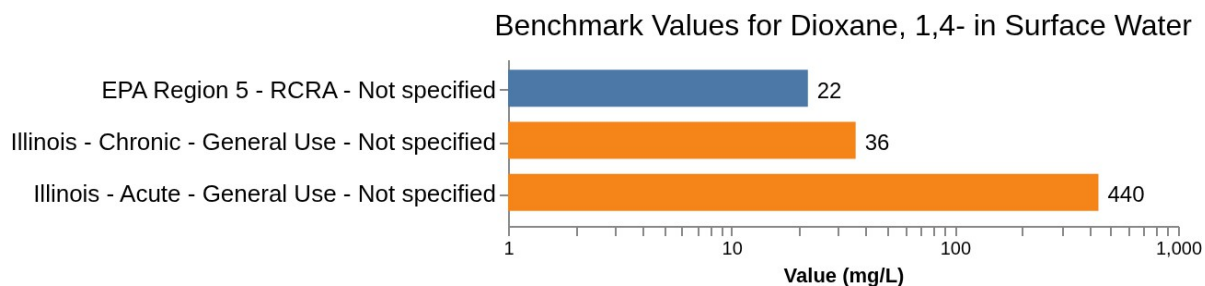


Table 239: Benchmark Values for Diphenamid in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
957-51-7	Florida	Freshwater and Marine Water Contaminant Cleanup	Not specified	1.6

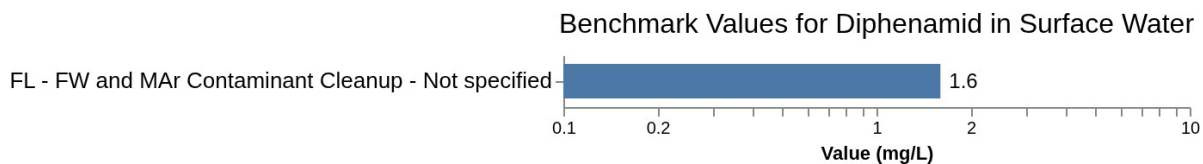


Table 240: Benchmark Values for Diphenylamine in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
122-39-4	EPA Region 5	EPA RCRA Surface Water	Not specified	0.412

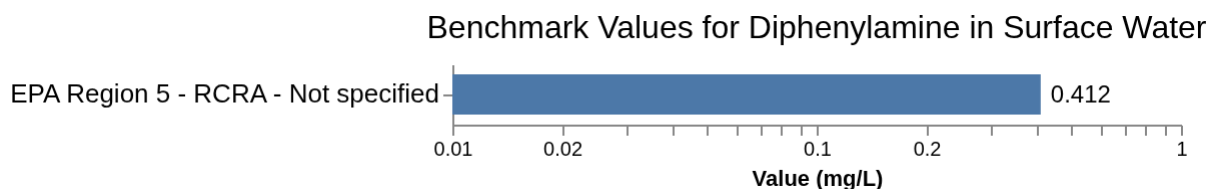


Table 241: Benchmark Values for Diphenylhydrazine, 1,2- in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
122-66-7	Illinois	Chronic – General Use	Not specified	0.002
122-66-7	Illinois	Acute – General Use	Not specified	0.025

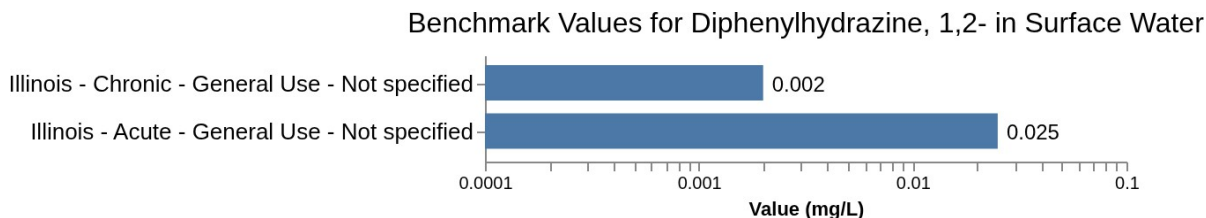


Table 242: Benchmark Values for Diquat dibromide in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
85-00-7	Florida	Freshwater and Marine Water Contaminant Cleanup	Not specified	0.0015
85-00-7	Illinois	Chronic – General Use	Not specified	0.0800
85-00-7	Illinois	Acute – General Use	Not specified	0.9900

Benchmark Values for Diquat dibromide in Surface Water

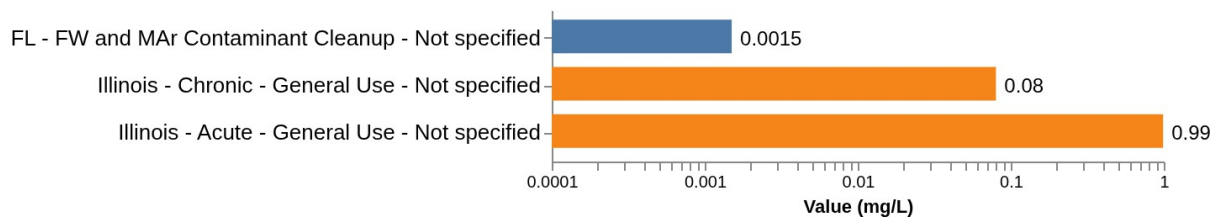


Table 243: Benchmark Values for Disulfoton in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
298-04-4	EPA Region 5	EPA RCRA Surface Water	Not specified	0.00004
298-04-4	Florida	Freshwater and Marine Water Contaminant Cleanup	Not specified	0.00030

Benchmark Values for Disulfoton in Surface Water

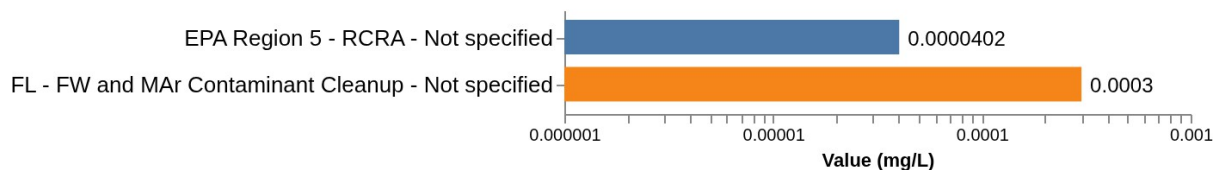


Table 244: Benchmark Values for Diuron in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
330-54-1	Florida	Freshwater and Marine Water Contaminant Cleanup	Not specified	0.008

Benchmark Values for Diuron in Surface Water

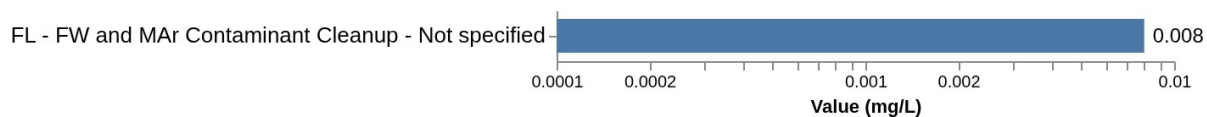


Table 245: Benchmark Values for Endosulfan I in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
959-98-8	EPA Region 5	EPA RCRA Surface Water	Not specified	0.000056
959-98-8	Illinois	Chronic – General Use	Not specified	0.000006
959-98-8	Illinois	Acute – General Use	Not specified	0.000031

Benchmark Values for Endosulfan I in Surface Water

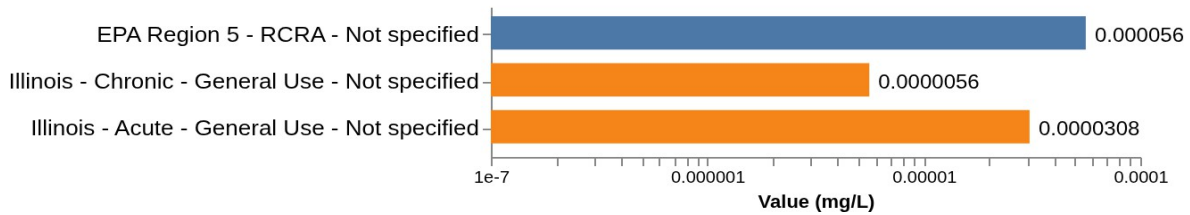


Table 246: Benchmark Values for Endosulfan II in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
33213-65-9	EPA Region 5	EPA RCRA Surface Water	Not specified	0.000056
33213-65-9	Illinois	Chronic – General Use	Not specified	0.000006
33213-65-9	Illinois	Acute – General Use	Not specified	0.000031

Benchmark Values for Endosulfan II in Surface Water

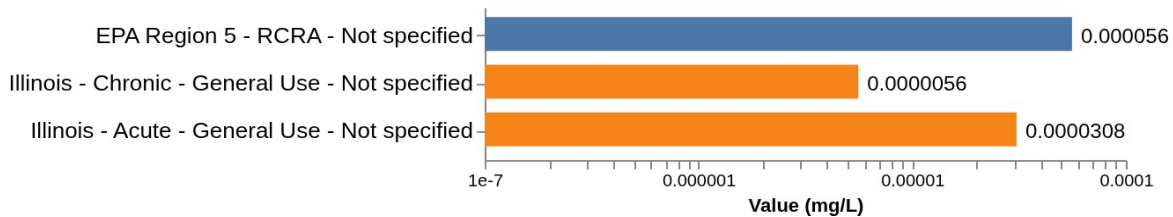


Table 247: Benchmark Values for Endosulfan Sulfate in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
1031-07-8	EPA Region 5	EPA RCRA Surface Water	Not specified	0.002220
1031-07-8	Illinois	Chronic – General Use	Not specified	0.000006
1031-07-8	Illinois	Acute – General Use	Not specified	0.000031

Benchmark Values for Endosulfan Sulfate in Surface Water

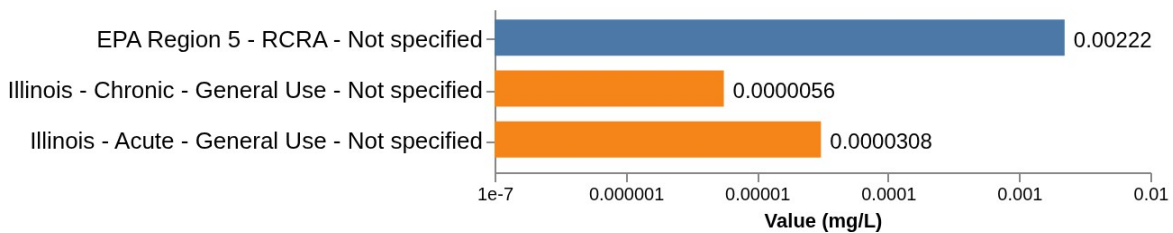


Table 248: Benchmark Values for Endosulfan in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
115-29-7	Florida	SWQS for Shellfish Propagation or Harvesting	Not specified	0.000009
115-29-7	LANL ECORISK	Surface Water No Effect ESL	Aquatic community organisms	0.000056
115-29-7	LANL ECORISK	Surface Water Low Effect ESL	Aquatic community organisms	0.000220
115-29-7	LANL ECORISK	Surface Water No Effect ESL	Montane shrew	0.670000
115-29-7	LANL ECORISK	Surface Water No Effect ESL	Deer mouse	0.780000
115-29-7	LANL ECORISK	Surface Water No Effect ESL	Occult little brown myotis bat	0.940000
115-29-7	LANL ECORISK	Surface Water No Effect ESL	Mountain cottontail	1.500000
115-29-7	LANL ECORISK	Surface Water No Effect ESL	Gray fox	1.700000
115-29-7	LANL ECORISK	Surface Water Low Effect ESL	Montane shrew	6.700000
115-29-7	LANL ECORISK	Surface Water Low Effect ESL	Deer mouse	7.800000
115-29-7	LANL ECORISK	Surface Water Low Effect ESL	Occult little brown myotis bat	9.400000
115-29-7	LANL ECORISK	Surface Water Low Effect ESL	Mountain cottontail	15.000000
115-29-7	LANL ECORISK	Surface Water Low Effect ESL	Gray fox	17.000000
115-29-7	LANL ECORISK	Surface Water No Effect ESL	Violet-green swallow	41.000000
115-29-7	LANL ECORISK	Surface Water No Effect ESL	American robin	71.000000
115-29-7	LANL ECORISK	Surface Water No Effect ESL	American kestrel	83.000000
115-29-7	LANL ECORISK	Surface Water Low Effect ESL	Violet-green swallow	410.000000
115-29-7	LANL ECORISK	Surface Water Low Effect ESL	American robin	710.000000
115-29-7	LANL ECORISK	Surface Water Low Effect ESL	American kestrel	830.000000
115-29-7	ORNL	Tier II Secondary Chronic Value	Not specified	0.000051

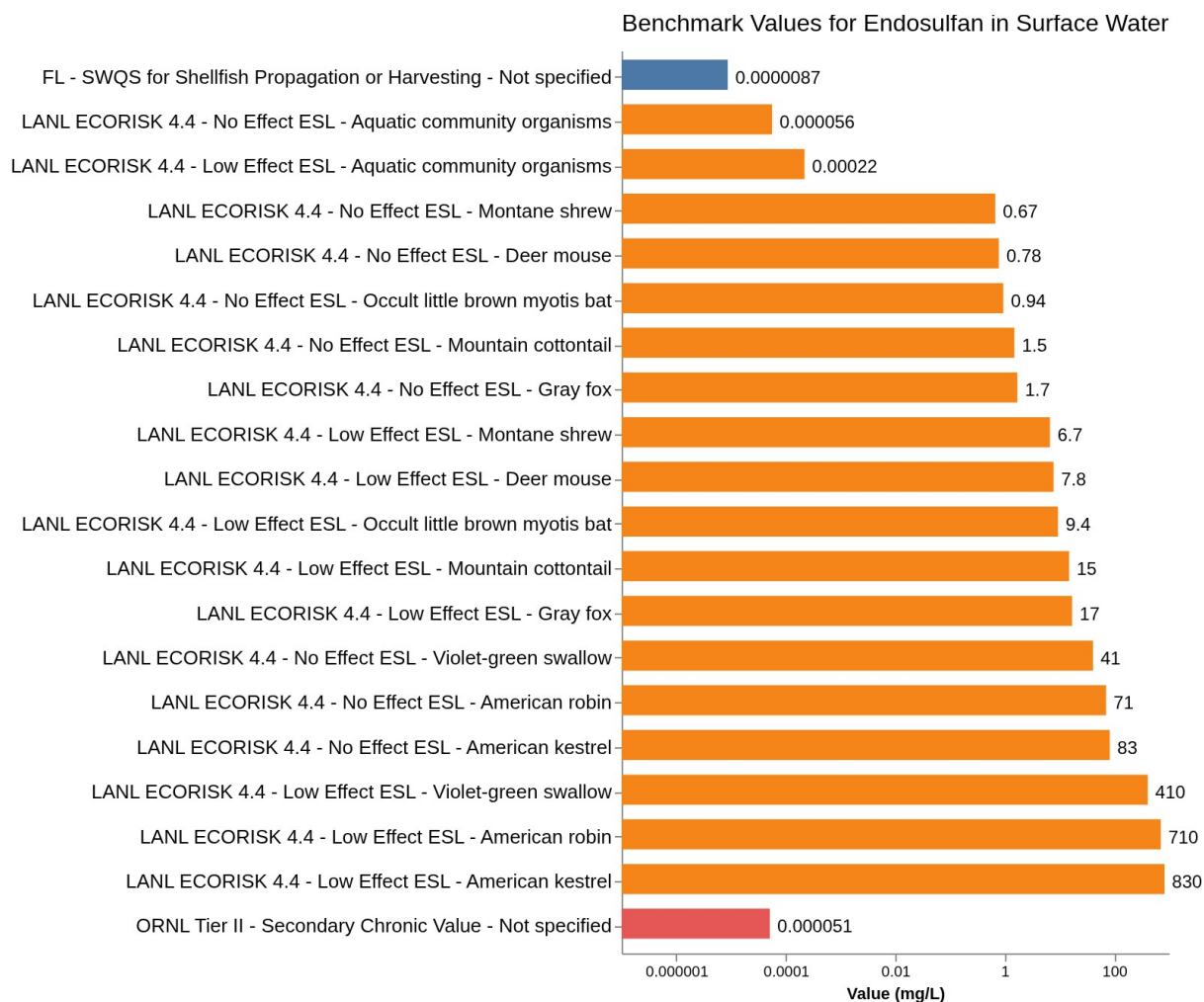


Table 249: Benchmark Values for Endothall in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
145-73-3	Florida	Freshwater and Marine Water Contaminant Cleanup	Not specified	0.11	
145-73-3	Illinois	Chronic – General Use	Not specified	1.00	195, 197
145-73-3	Illinois	Acute – General Use	Not specified	10.00	195, 197

Benchmark Values for Endothall in Surface Water

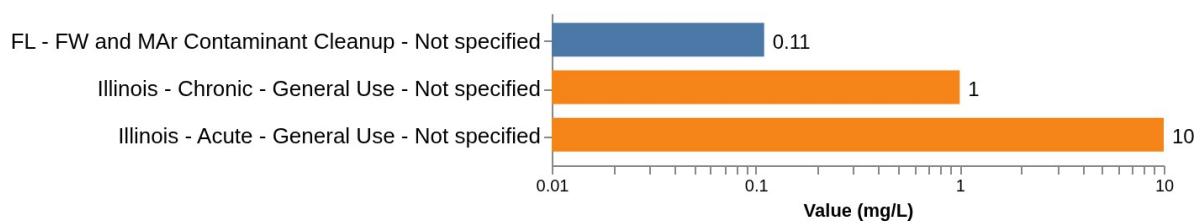


Table 250: Benchmark Values for Endrin aldehyde in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
7421-93-4	EPA Region 5	EPA RCRA Surface Water	Not specified	0.00015

Benchmark Values for Endrin aldehyde in Surface Water

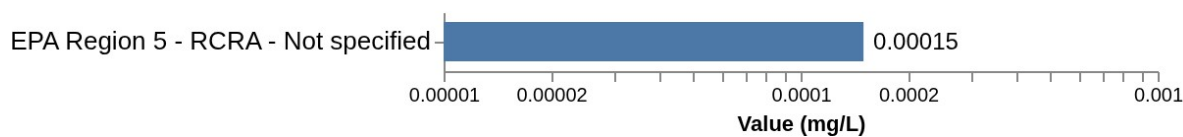


Table 251: Benchmark Values for Endrin in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
72-20-8	EPA Region 5	EPA RCRA Surface Water	Not specified	0.000036	
72-20-8	Florida	SWQS for Shellfish Propagation or Harvesting	Not specified	0.000002	
72-20-8	Illinois	Chronic – General Use	Not specified	0.000033	
72-20-8	Illinois	Acute – General Use	Not specified	0.000160	
72-20-8	LANL ECORISK	Surface Water No Effect ESL	Aquatic community organisms	0.000036	
72-20-8	LANL ECORISK	Surface Water Low Effect ESL	Aquatic community organisms	0.000086	
72-20-8	LANL ECORISK	Surface Water No Effect ESL	Violet-green swallow	0.041000	
72-20-8	LANL ECORISK	Surface Water No Effect ESL	American robin	0.071000	
72-20-8	LANL ECORISK	Surface Water No Effect ESL	American kestrel	0.083000	
72-20-8	LANL ECORISK	Surface Water Low Effect ESL	Violet-green swallow	0.410000	
72-20-8	LANL ECORISK	Surface Water No Effect ESL	Montane shrew	0.410000	
72-20-8	LANL ECORISK	Surface Water No Effect ESL	Deer mouse	0.480000	
72-20-8	LANL ECORISK	Surface Water No Effect ESL	Occult little brown myotis bat	0.570000	
72-20-8	LANL ECORISK	Surface Water Low Effect ESL	American robin	0.710000	
72-20-8	LANL ECORISK	Surface Water Low Effect ESL	American kestrel	0.830000	
72-20-8	LANL ECORISK	Surface Water No Effect ESL	Mountain cottontail	0.940000	
72-20-8	LANL ECORISK	Surface Water No Effect ESL	Gray fox	1.000000	
72-20-8	LANL ECORISK	Surface Water Low Effect ESL	Montane shrew	4.100000	
72-20-8	LANL ECORISK	Surface Water Low Effect ESL	Deer mouse	4.800000	
72-20-8	LANL ECORISK	Surface Water Low Effect ESL	Occult little brown myotis bat	5.700000	
72-20-8	LANL ECORISK	Surface Water Low Effect ESL	Mountain cottontail	9.400000	
72-20-8	LANL ECORISK	Surface Water Low Effect ESL	Gray fox	10.000000	
72-20-8	Ohio	OMZA	Not specified	0.000036	192
72-20-8	Ohio	OMZM	Not specified	0.000086	192
72-20-8	Ohio	IMZM	Not specified	0.000170	192

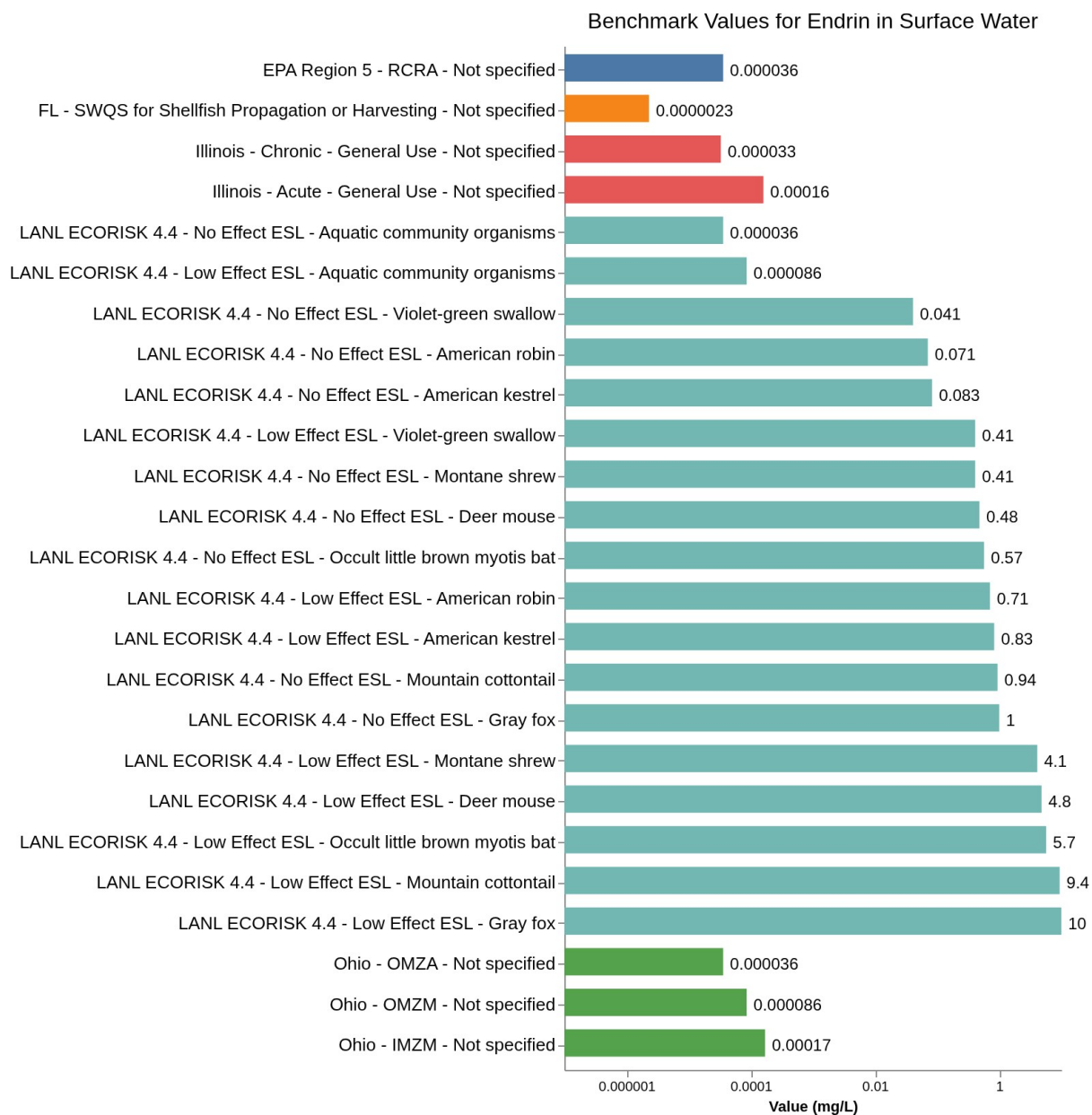


Table 252: Benchmark Values for Ethalfuralin in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
55283-68-6	Illinois	Chronic – General Use	Not specified	0.0003	195
55283-68-6	Illinois	Acute – General Use	Not specified	0.0032	

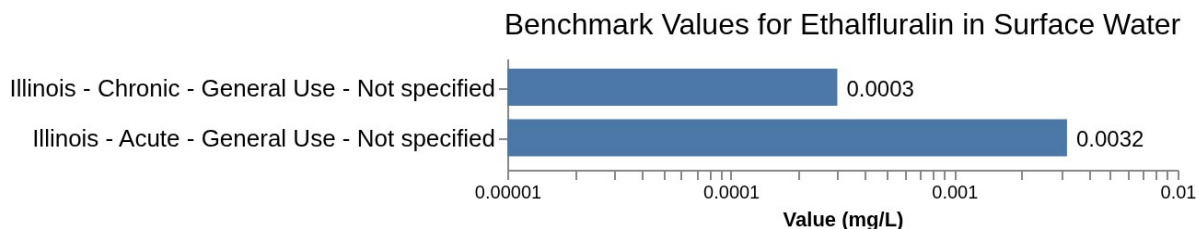


Table 253: Benchmark Values for Ethanol in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
64-17-5	Illinois	Chronic – General Use	Not specified	85.0	195
64-17-5	Illinois	Acute – General Use	Not specified	1100.0	195

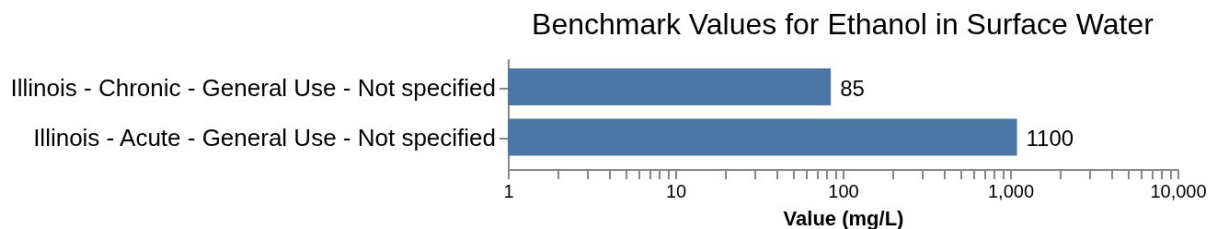


Table 254: Benchmark Values for Ethanolamine in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
141-43-5	Illinois	Chronic – General Use	Not specified	0.44
141-43-5	Illinois	Acute – General Use	Not specified	5.50

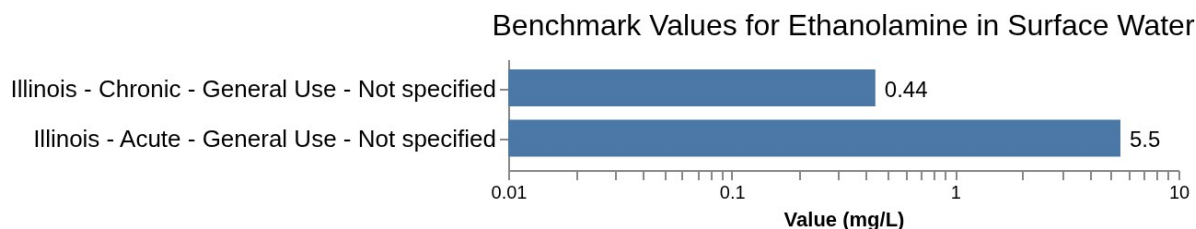


Table 255: Benchmark Values for Ethion in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
563-12-2	Florida	Freshwater and Marine Water Contaminant Cleanup	Not specified	0.000007

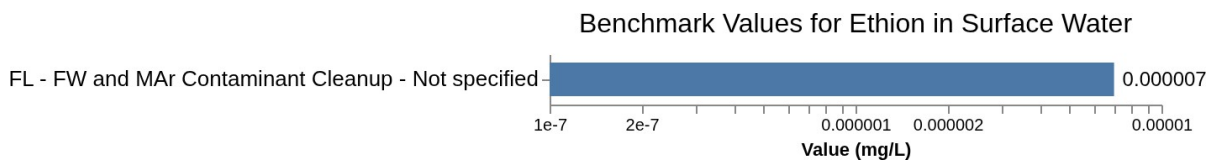


Table 256: Benchmark Values for Ethoprop in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
13194-48-4	Florida	Freshwater and Marine Water Contaminant Cleanup	Not specified	0.0003

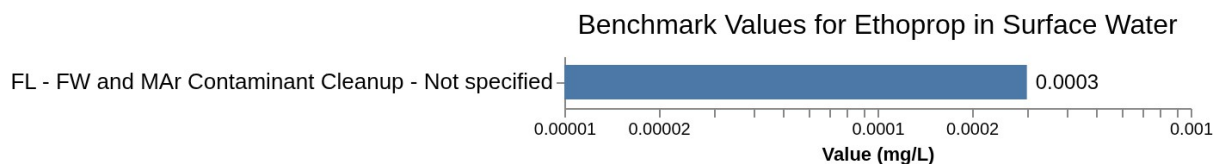


Table 257: Benchmark Values for Ethoxyethanol Acetate, 2- in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
111-15-9	Florida	Freshwater and Marine Water Contaminant Cleanup	Not specified	2.0

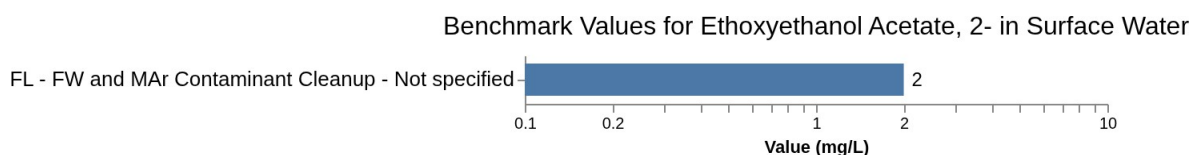


Table 258: Benchmark Values for Ethyl Acetate in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
141-78-6	Florida	Freshwater and Marine Water Contaminant Cleanup	Not specified	6.3

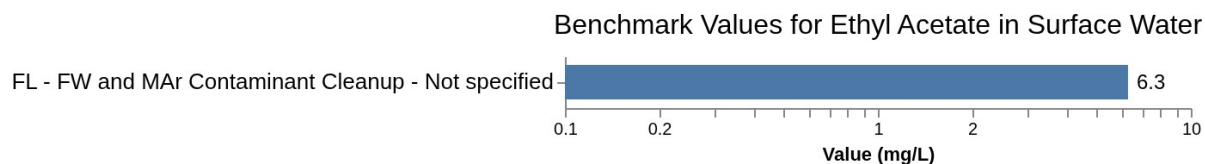


Table 259: Benchmark Values for Ethyl Acrylate in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
140-88-5	Florida	Freshwater and Marine Water Contaminant Cleanup	Not specified	0.13

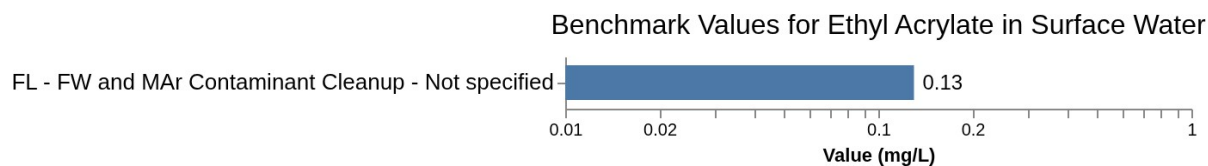


Table 260: Benchmark Values for Ethyl Chloride in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
75-00-3	Illinois	Chronic – General Use	Not specified	1.0	195
75-00-3	Illinois	Acute – General Use	Not specified	13.0	195

Benchmark Values for Ethyl Chloride in Surface Water

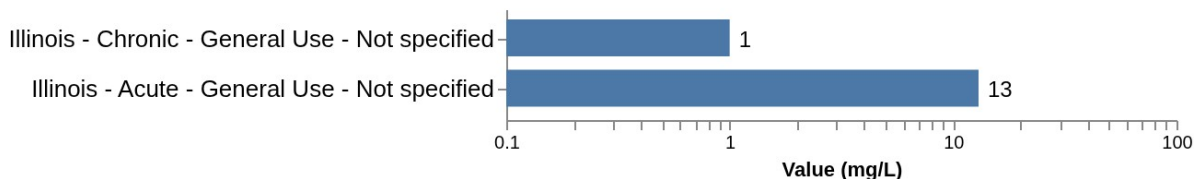


Table 261: Benchmark Values for Ethyl dipropylthiocarbamate, S- (EPTC) in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
759-94-4	Florida	Freshwater and Marine Water Contaminant Cleanup	Not specified	0.24

Benchmark Values for Ethyl dipropylthiocarbamate, S- (EPTC) in Surface Water

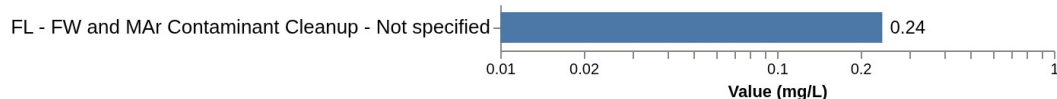


Table 262: Benchmark Values for Ethyl Ether in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
60-29-7	Florida	Freshwater and Marine Water Contaminant Cleanup	Not specified	130.0

Benchmark Values for Ethyl Ether in Surface Water

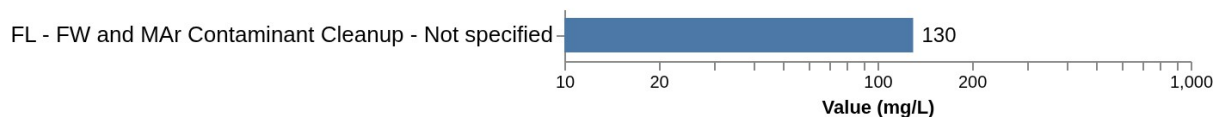


Table 263: Benchmark Values for Ethyl mercaptan in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
75-08-1	Illinois	Chronic – General Use	Not specified	0.002
75-08-1	Illinois	Acute – General Use	Not specified	0.017

Benchmark Values for Ethyl mercaptan in Surface Water

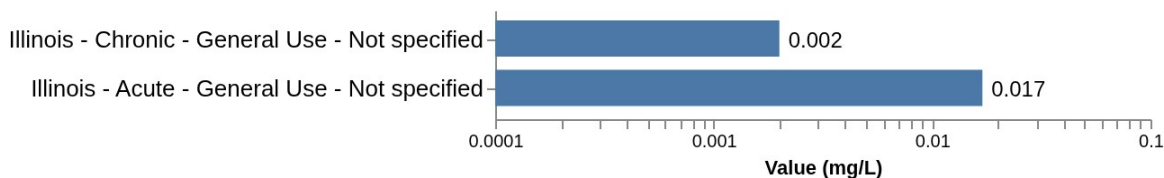


Table 264: Benchmark Values for Ethylanthracene, 2- in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
52251-71-5	EPA ESBs	Final Chronic Value	Not specified	0.004003

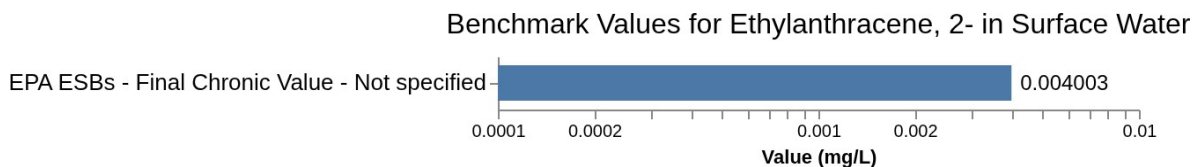


Table 265: Benchmark Values for Ethylbenzene in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
100-41-4	British Columbia	Estuarine LTC	Not specified	0.2500	
100-41-4	Canada	Water Livestock	Not specified	0.0024	
100-41-4	EPA Region 4	Freshwater and Saltwater Chronic Narcotic MOA	Not specified	0.3080	
100-41-4	EPA Region 4	Freshwater and Saltwater Acute, Narcotic MOA	Not specified	1.1960	
100-41-4	EPA Region 5	EPA RCRA Surface Water	Not specified	0.0140	
100-41-4	Florida	Freshwater and Marine Water Contaminant Cleanup	Not specified	0.6100	
100-41-4	ORNL	Tier II Secondary Chronic Value	Not specified	0.0073	
100-41-4	ORNL	Tier II Secondary Acute Value	Not specified	0.1300	
100-41-4	ORNL	EC25 Bass Population	Not specified	0.3980	
100-41-4	ORNL	SW Lowest Chronic Value – Fish	Not specified	0.4400	22
100-41-4	ORNL	SW Lowest Chronic Value – All Organisms	Not specified	0.4400	22
100-41-4	ORNL	SW Lowest Chronic Value – Daphnids	Not specified	12.9000	24
100-41-4	ORNL	SW Lowest Chronic Value – Aquatic Plants	Not specified	438.0000	22

Benchmark Values for Ethylbenzene in Surface Water

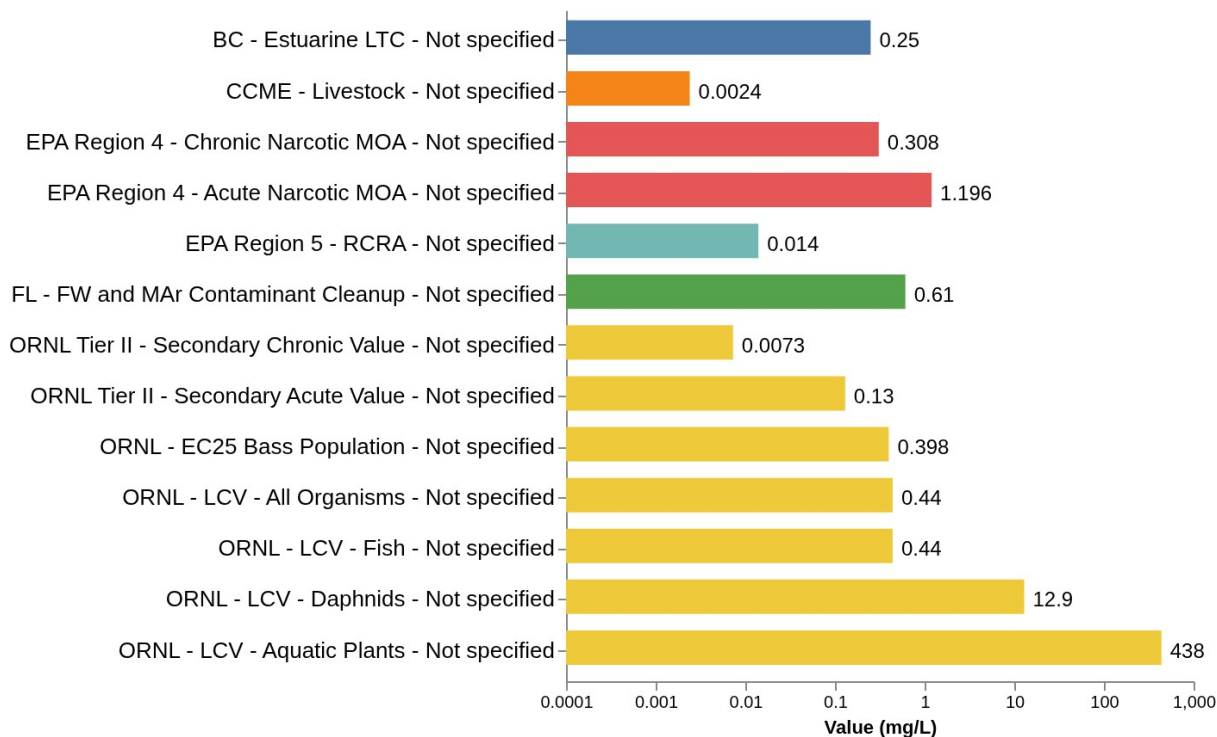


Table 266: Benchmark Values for Ethylene Diamine in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
107-15-3	Florida	Freshwater and Marine Water Contaminant Cleanup	Not specified	0.8

Benchmark Values for Ethylene Diamine in Surface Water

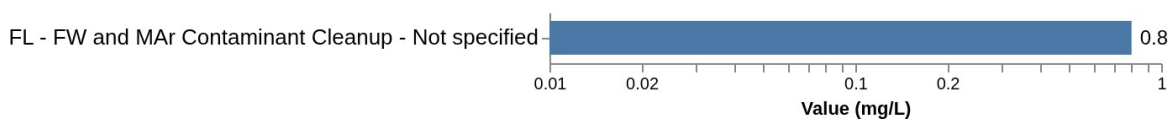


Table 267: Benchmark Values for Ethylene glycol dimethyl ether in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
110-71-4	Illinois	Chronic – General Use	Not specified	21.0	195
110-71-4	Illinois	Acute – General Use	Not specified	260.0	195

Benchmark Values for Ethylene glycol dimethyl ether in Surface Water

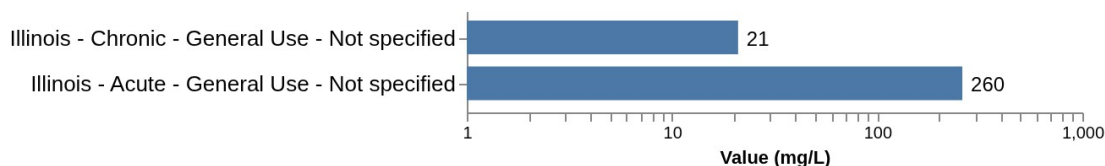


Table 268: Benchmark Values for Ethylene Glycol in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
107-21-1	EPA Region 4	Freshwater and Saltwater Chronic Narcotic MOA	Not specified	479.638
107-21-1	EPA Region 4	Freshwater and Saltwater Acute, Narcotic MOA	Not specified	1768.104
107-21-1	Florida	Freshwater and Marine Water Contaminant Cleanup	Not specified	16.000
107-21-1	Illinois	Chronic – General Use	Not specified	0.130
107-21-1	Illinois	Acute – General Use	Not specified	1.600

Benchmark Values for Ethylene Glycol in Surface Water

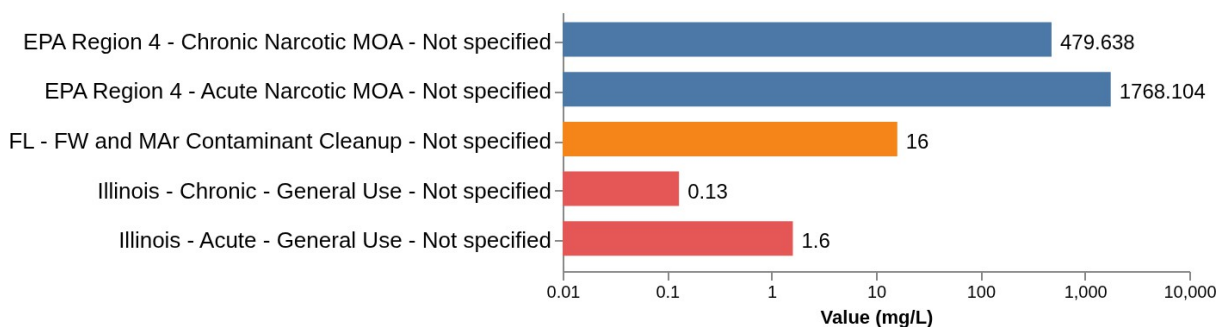


Table 269: Benchmark Values for Ethylene Oxide in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
75-21-8	Florida	Freshwater and Marine Water Contaminant Cleanup	Not specified	4.2

Benchmark Values for Ethylene Oxide in Surface Water

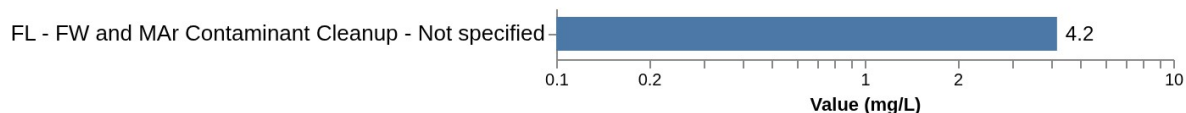


Table 270: Benchmark Values for Ethylene Thiourea in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
96-45-7	Florida	Freshwater and Marine Water Contaminant Cleanup	Not specified	1.30	
96-45-7	Illinois	Chronic – General Use	Not specified	0.21	195
96-45-7	Illinois	Acute – General Use	Not specified	2.60	195

Benchmark Values for Ethylene Thiourea in Surface Water

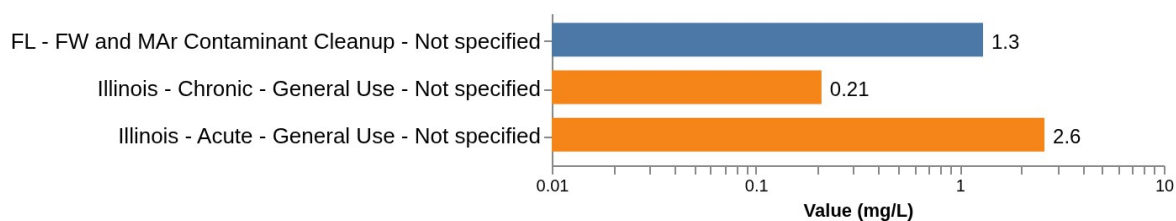


Table 271: Benchmark Values for Ethylenediaminetetraacetic acid (EDTA) in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
64-02-8	Illinois	Chronic – General Use	Not specified	8.2
64-02-8	Illinois	Acute – General Use	Not specified	100.0

Benchmark Values for Ethylenediaminetetraacetic acid (EDTA) in Surface Water

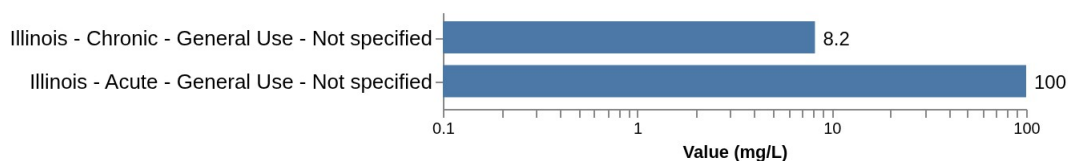


Table 272: Benchmark Values for Ethylfluorene, 9- in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
2294-82-8	EPA ESBs	Final Chronic Value	Not specified	0.008693

Benchmark Values for Ethylfluorene, 9- in Surface Water

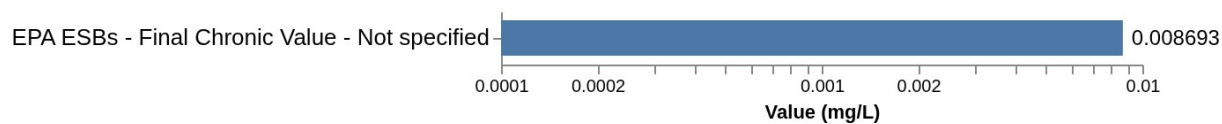


Table 273: Benchmark Values for Ethylhexyl glycidyl ether, 2- in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
2461-15-6	Illinois	Chronic – General Use	Not specified	0.14	195
2461-15-6	Illinois	Acute – General Use	Not specified	1.40	195

Benchmark Values for Ethylhexyl glycidyl ether, 2- in Surface Water

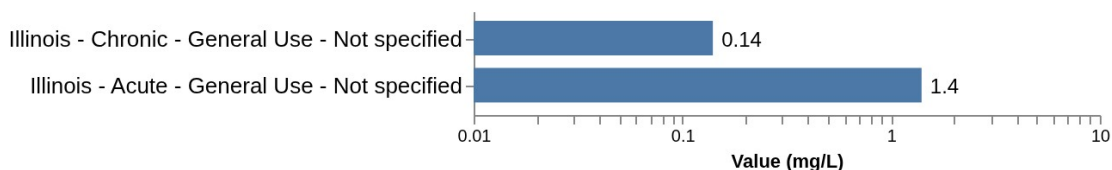


Table 274: Benchmark Values for Ethylnaphthalene, 1- in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
1127-76-0	EPA ESBs	Final Chronic Value	Not specified	0.03591

Benchmark Values for Ethylnaphthalene, 1- in Surface Water

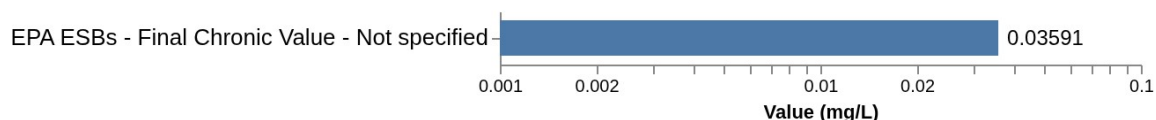


Table 275: Benchmark Values for Ethylnaphthalene, 2- in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
939-27-5	EPA ESBs	Final Chronic Value	Not specified	0.03137	

Benchmark Values for Ethylnaphthalene, 2- in Surface Water

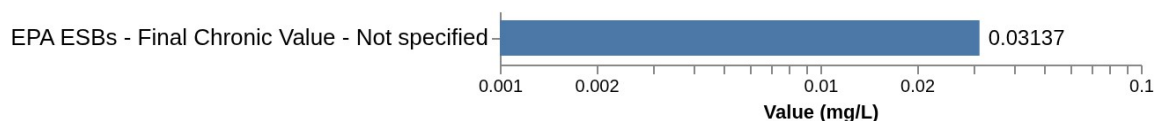


Table 276: Benchmark Values for Ethyl-p-nitrophenyl Phosphonate in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
2104-64-5	Florida	Freshwater and Marine Water Contaminant Cleanup	Not specified	0.00002

Benchmark Values for Ethyl-p-nitrophenyl Phosphonate in Surface Water

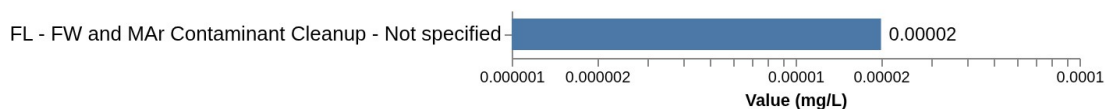


Table 277: Benchmark Values for Fenamiphos in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
22224-92-6	Florida	Freshwater and Marine Water Contaminant Cleanup	Not specified	0.0002

Benchmark Values for Fenamiphos in Surface Water

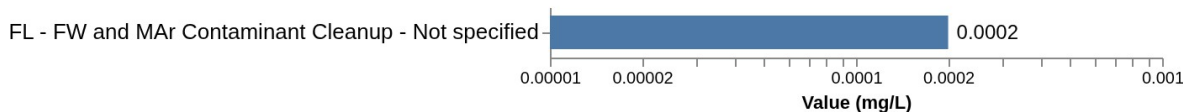


Table 278: Benchmark Values for Fensulfothion in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
115-90-2	Florida	Freshwater and Marine Water Contaminant Cleanup	Not specified	0.0005

Benchmark Values for Fensulfothion in Surface Water

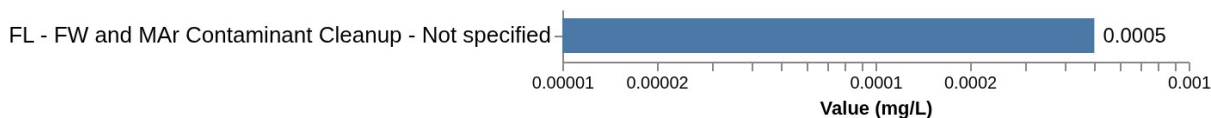


Table 279: Benchmark Values for Fenvalerate in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
51630-58-1	Florida	Freshwater and Marine Water Contaminant Cleanup	Not specified	4.000000e-07

Benchmark Values for Fenvalerate in Surface Water

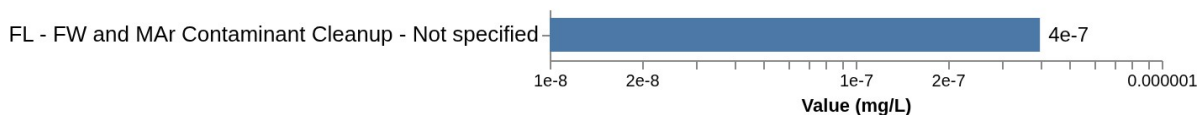


Table 280: Benchmark Values for Fluometuron in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
2164-17-2	Florida	Freshwater and Marine Water Contaminant Cleanup	Not specified	0.19

Benchmark Values for Fluometuron in Surface Water

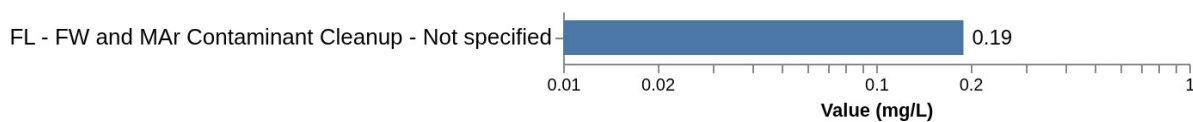


Table 281: Benchmark Values for Fluoranthene in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
206-44-0	EPA ESBs	Final Chronic Value	Not specified	0.007109	
206-44-0	EPA Region 4	Freshwater and Saltwater Chronic for PAHs	Not specified	0.007100	7
206-44-0	EPA Region 4	Freshwater and Saltwater Acute for PAHs	Not specified	0.015000	7
206-44-0	EPA Region 5	EPA RCRA Surface Water	Not specified	0.001900	
206-44-0	Florida	Freshwater and Marine Water Contaminant Cleanup	Not specified	0.000300	
206-44-0	Florida	SWQS for Shellfish Propagation or Harvesting	Not specified	0.370000	
206-44-0	Illinois	Chronic – General Use	Not specified	0.001800	
206-44-0	Illinois	Acute – General Use	Not specified	0.004300	
206-44-0	LANL ECORISK	Surface Water No Effect ESL	Aquatic community organisms	0.000040	
206-44-0	LANL ECORISK	Surface Water Low Effect ESL	Aquatic community organisms	0.000400	
206-44-0	LANL ECORISK	Surface Water No Effect ESL	Montane shrew	56.000000	
206-44-0	LANL ECORISK	Surface Water No Effect ESL	Deer mouse	65.000000	
206-44-0	LANL ECORISK	Surface Water No Effect ESL	Occult little brown myotis bat	78.000000	
206-44-0	LANL ECORISK	Surface Water No Effect ESL	Mountain cottontail	120.000000	
206-44-0	LANL ECORISK	Surface Water No Effect ESL	Gray fox	140.000000	
206-44-0	LANL ECORISK	Surface Water Low Effect ESL	Montane shrew	560.000000	
206-44-0	LANL ECORISK	Surface Water Low Effect ESL	Deer mouse	650.000000	
206-44-0	LANL ECORISK	Surface Water Low Effect ESL	Occult little brown myotis bat	780.000000	
206-44-0	LANL ECORISK	Surface Water Low Effect ESL	Mountain cottontail	1200.000000	
206-44-0	LANL ECORISK	Surface Water Low Effect ESL	Gray fox	1400.000000	
206-44-0	ORNL	SW Lowest Chronic Value – All Organisms	Not specified	0.015000	
206-44-0	ORNL	SW Lowest Chronic Value – Daphnids	Not specified	0.015000	
206-44-0	ORNL	SW Lowest Chronic Value – Fish	Not specified	0.030000	
206-44-0	ORNL	EC25 Bass Population	Not specified	0.032000	
206-44-0	ORNL	SW Lowest Chronic Value – Aquatic Plants	Not specified	54.400000	

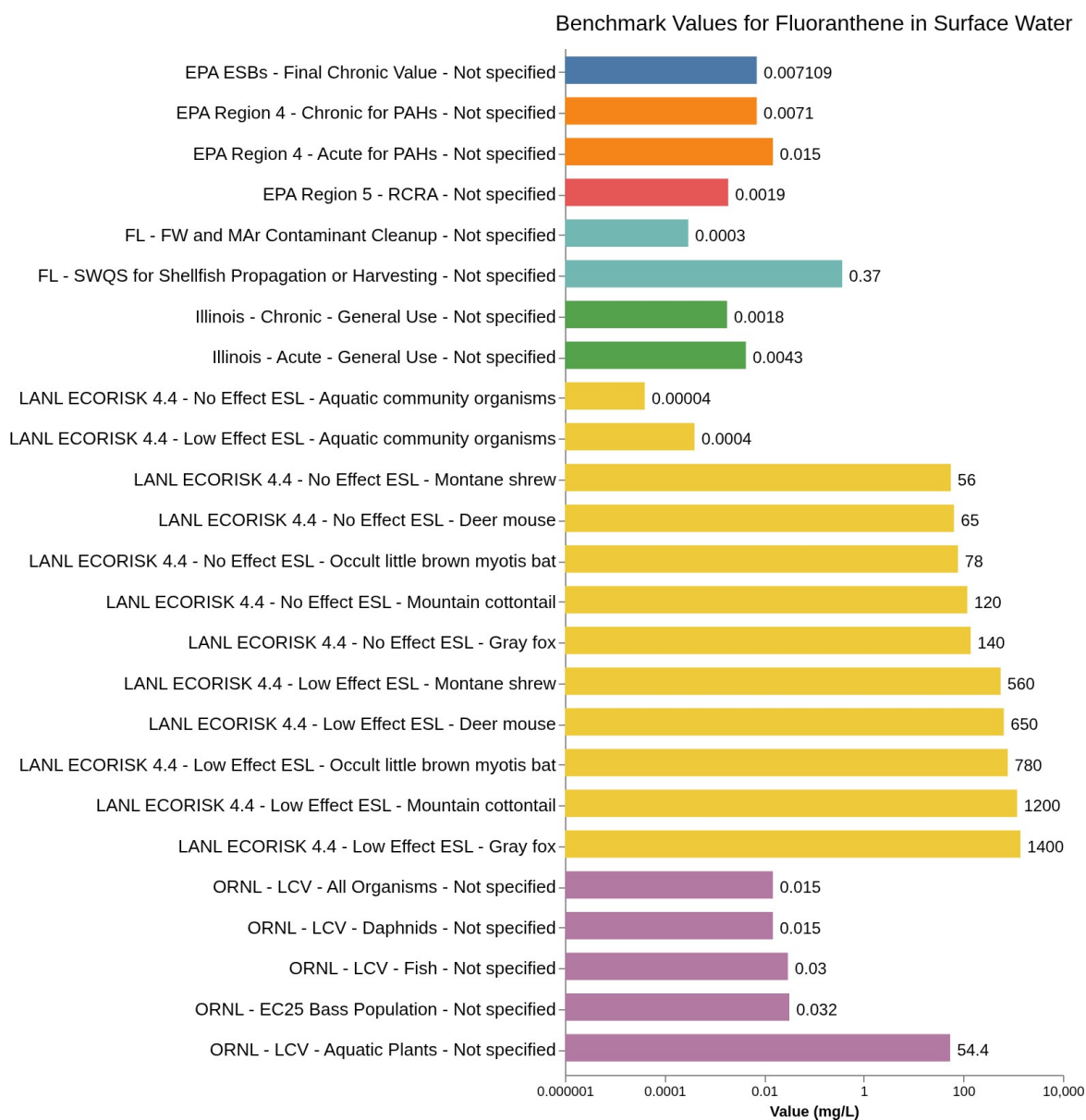


Table 282: Benchmark Values for Fluoranthene/pyrenes, C1- in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
000000-13-9	EPA ESBs	Final Chronic Value	Not specified	0.004887
000000-13-9	EPA Region 4	Freshwater and Saltwater Chronic for PAHs	Not specified	0.004900
000000-13-9	EPA Region 4	Freshwater and Saltwater Acute for PAHs	Not specified	0.010000

Benchmark Values for Fluoranthene/pyrenes, C1- in Surface Water

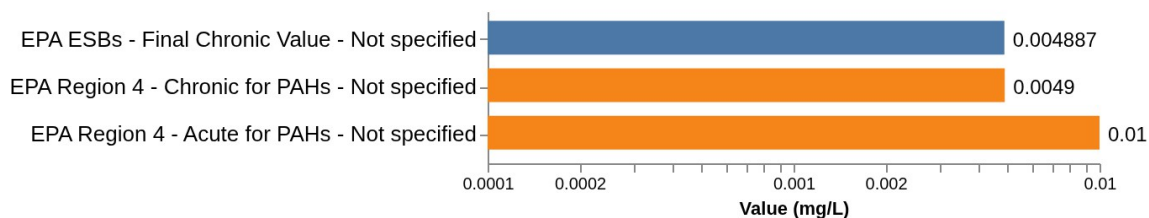


Table 283: Benchmark Values for Fluoranthene/pyrenes, C2- in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
000000-14-0	EPA Region 4	Freshwater and Saltwater Chronic for PAHs	Not specified	0.0011
000000-14-0	EPA Region 4	Freshwater and Saltwater Acute for PAHs	Not specified	0.0023

Benchmark Values for Fluoranthene/pyrenes, C2- in Surface Water

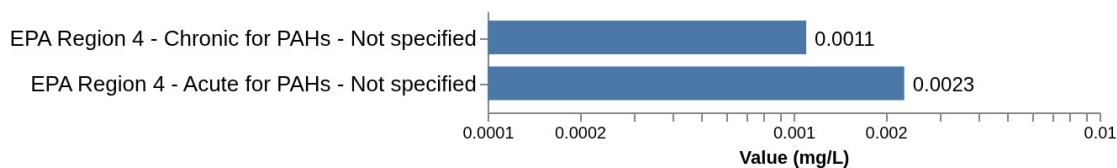


Table 284: Benchmark Values for Fluoranthene/pyrenes, C3- in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
000000-14-1	EPA ESBs	Final Chronic Value	Not specified	0.000631
000000-14-1	EPA Region 4	Freshwater and Saltwater Chronic for PAHs	Not specified	0.000600
000000-14-1	EPA Region 4	Freshwater and Saltwater Acute for PAHs	Not specified	0.001300

Benchmark Values for Fluoranthene/pyrenes, C3- in Surface Water

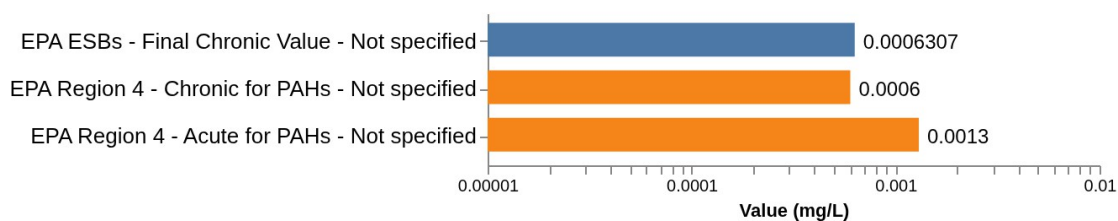


Table 285: Benchmark Values for Fluoranthene/pyrenes, C4- in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
000000-14-2	EPA Region 4	Freshwater and Saltwater Chronic for PAHs	Not specified	0.0002
000000-14-2	EPA Region 4	Freshwater and Saltwater Acute for PAHs	Not specified	0.0003

Benchmark Values for Fluoranthene/pyrenes, C4- in Surface Water

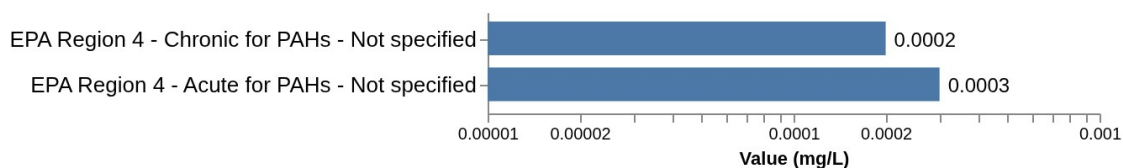


Table 286: Benchmark Values for Fluorene in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
86-73-7	EPA ESBs	Final Chronic Value	Not specified	0.0393
86-73-7	EPA Region 4	Freshwater and Saltwater Chronic for PAHs	Not specified	0.0390
86-73-7	EPA Region 4	Freshwater and Saltwater Acute for PAHs	Not specified	0.0820
86-73-7	EPA Region 5	EPA RCRA Surface Water	Not specified	0.0190
86-73-7	Florida	Freshwater and Marine Water Contaminant Cleanup	Not specified	0.0300
86-73-7	Florida	SWQS for Shellfish Propagation or Harvesting	Not specified	14.0000
86-73-7	Illinois	Chronic – General Use	Not specified	0.0160
86-73-7	Illinois	Acute – General Use	Not specified	0.0590
86-73-7	LANL ECORISK	Surface Water No Effect ESL	Aquatic community organisms	0.0039
86-73-7	LANL ECORISK	Surface Water Low Effect ESL	Aquatic community organisms	0.0390
86-73-7	LANL ECORISK	Surface Water No Effect ESL	Montane shrew	560.0000
86-73-7	LANL ECORISK	Surface Water No Effect ESL	Deer mouse	650.0000
86-73-7	LANL ECORISK	Surface Water No Effect ESL	Occult little brown myotis bat	780.0000
86-73-7	LANL ECORISK	Surface Water Low Effect ESL	Montane shrew	1100.0000
86-73-7	LANL ECORISK	Surface Water No Effect ESL	Mountain cottontail	1200.0000
86-73-7	LANL ECORISK	Surface Water Low Effect ESL	Deer mouse	1300.0000
86-73-7	LANL ECORISK	Surface Water No Effect ESL	Gray fox	1400.0000
86-73-7	LANL ECORISK	Surface Water Low Effect ESL	Occult little brown myotis bat	1500.0000
86-73-7	LANL ECORISK	Surface Water Low Effect ESL	Mountain cottontail	2500.0000
86-73-7	LANL ECORISK	Surface Water Low Effect ESL	Gray fox	2900.0000
86-73-7	ORNL	Tier II Secondary Chronic Value	Not specified	0.0039
86-73-7	ORNL	Tier II Secondary Acute Value	Not specified	0.0700

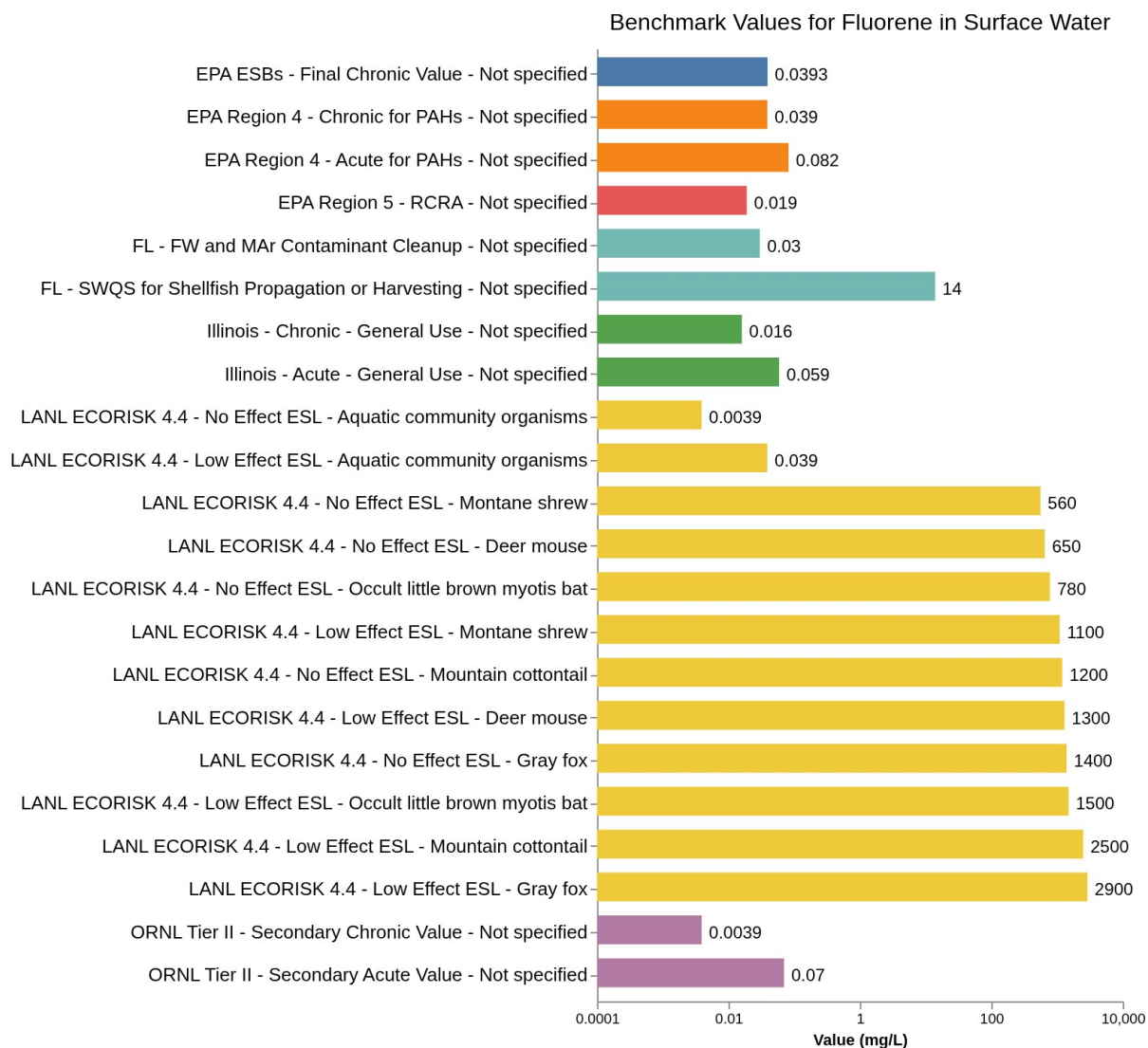


Table 287: Benchmark Values for Fluorenes, C1- in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
000000-12-8	EPA ESBs	Final Chronic Value	Not specified	0.01399
000000-12-8	EPA Region 4	Freshwater and Saltwater Chronic for PAHs	Not specified	0.01400
000000-12-8	EPA Region 4	Freshwater and Saltwater Acute for PAHs	Not specified	0.02900

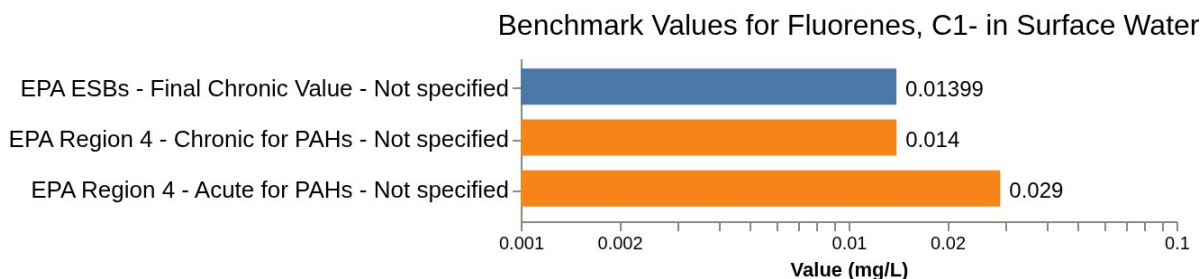


Table 288: Benchmark Values for Fluorenes, C2- in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
000000-12-9	EPA ESBs	Final Chronic Value	Not specified	0.005305
000000-12-9	EPA Region 4	Freshwater and Saltwater Chronic for PAHs	Not specified	0.005300
000000-12-9	EPA Region 4	Freshwater and Saltwater Acute for PAHs	Not specified	0.011000

Benchmark Values for Fluorenes, C2- in Surface Water

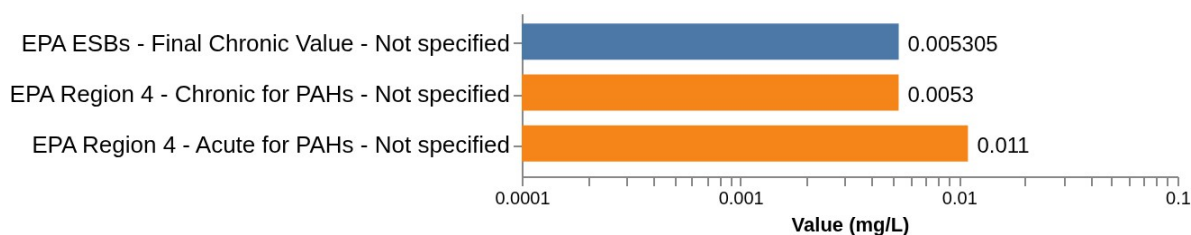


Table 289: Benchmark Values for Fluorenes, C3- in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
000000-13-0	EPA ESBs	Final Chronic Value	Not specified	0.001916
000000-13-0	EPA Region 4	Freshwater and Saltwater Chronic for PAHs	Not specified	0.001900
000000-13-0	EPA Region 4	Freshwater and Saltwater Acute for PAHs	Not specified	0.004000

Benchmark Values for Fluorenes, C3- in Surface Water

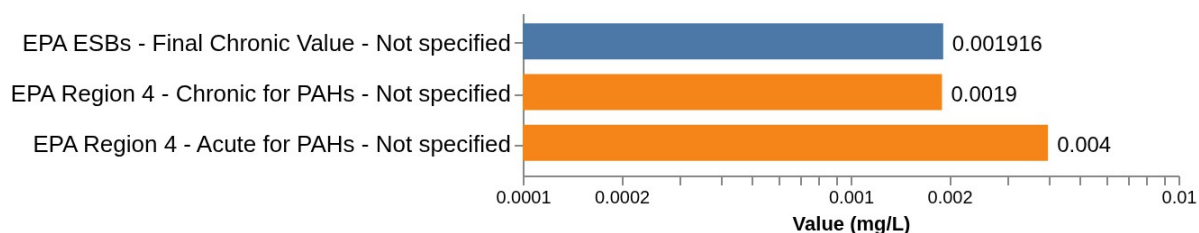


Table 290: Benchmark Values for Fluoride in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
16984-48-8	British Columbia	LTC	Not specified	1	
16984-48-8	British Columbia	Livestock LTC	Not specified	1	147
16984-48-8	British Columbia	Irrigation STA	Not specified	1	138
16984-48-8	British Columbia	STA	Not specified	1.5	
16984-48-8	British Columbia	Irrigation LTC	Not specified	2	138
16984-48-8	British Columbia	Livestock STA	Not specified	4	144
16984-48-8	Canada	Water Irrigation	Not specified	1	
16984-48-8	Canada	Water Livestock	Not specified		54
16984-48-8	Florida	SWQS for Shellfish Propagation or Harvesting	Not specified	1.5	
16984-48-8	LANL ECORISK	Surface Water No Effect ESL	Aquatic community organisms	0.02	
16984-48-8	LANL ECORISK	Surface Water Low Effect ESL	Aquatic community organisms	0.2	
16984-48-8	LANL ECORISK	Surface Water No Effect ESL	Violet-green swallow	50	
16984-48-8	LANL ECORISK	Surface Water No Effect ESL	American robin	87	
16984-48-8	LANL ECORISK	Surface Water No Effect ESL	American kestrel	100	
16984-48-8	LANL ECORISK	Surface Water No Effect ESL	Montane shrew	110	
16984-48-8	LANL ECORISK	Surface Water No Effect ESL	Deer mouse	140	
16984-48-8	LANL ECORISK	Surface Water No Effect ESL	Occult little brown myotis bat	160	
16984-48-8	LANL ECORISK	Surface Water Low Effect ESL	Montane shrew	210	
16984-48-8	LANL ECORISK	Surface Water Low Effect ESL	Deer mouse	250	
16984-48-8	LANL ECORISK	Surface Water No Effect ESL	Mountain cottontail	270	
16984-48-8	LANL ECORISK	Surface Water Low Effect ESL	Occult little brown myotis bat	300	
16984-48-8	LANL ECORISK	Surface Water No Effect ESL	Gray fox	300	
16984-48-8	LANL ECORISK	Surface Water Low Effect ESL	Violet-green swallow	500	
16984-48-8	LANL ECORISK	Surface Water Low Effect ESL	Mountain cottontail	500	
16984-48-8	LANL ECORISK	Surface Water Low Effect ESL	Gray fox	560	
16984-48-8	LANL ECORISK	Surface Water Low Effect ESL	American robin	870	
16984-48-8	LANL ECORISK	Surface Water Low Effect ESL	American kestrel	1000	
16984-48-8	ORNL	EC25 Bass Population	Not specified	1.08	
16984-48-8	ORNL	EC20 Daphnids	Not specified	3.71	
16984-48-8	ORNL	EC20 Fish	Not specified	5.34	29

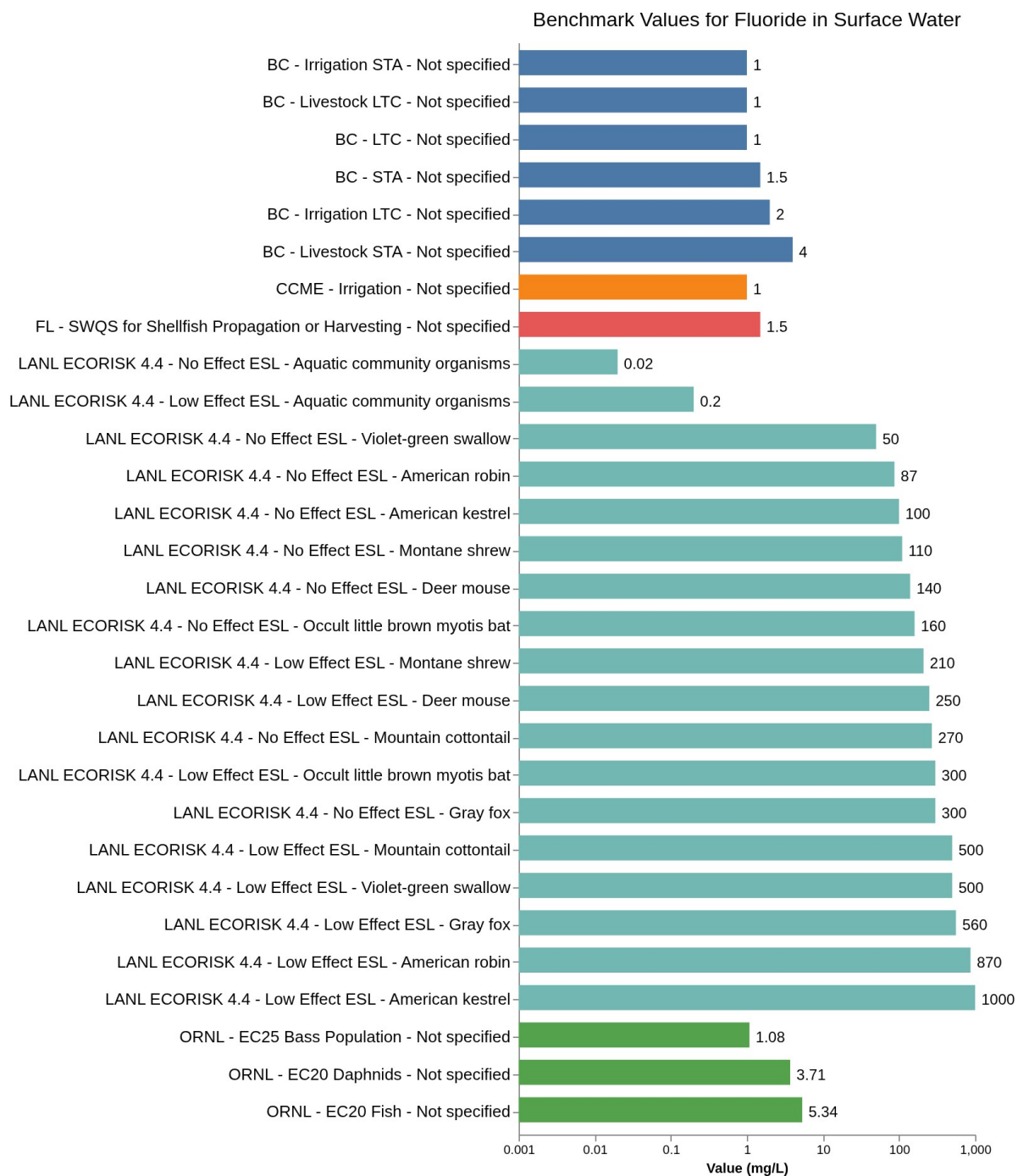


Table 291: Benchmark Values for Fluridone in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
59756-60-4	Florida	Freshwater and Marine Water Contaminant Cleanup	Not specified	0.11

Benchmark Values for Fluridone in Surface Water

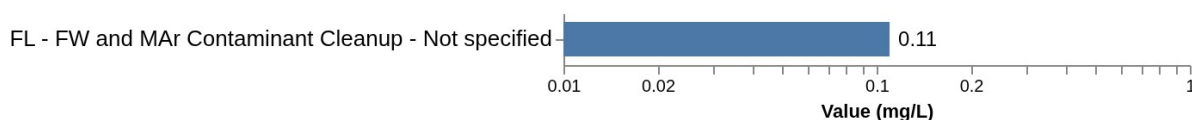


Table 292: Benchmark Values for Fonofos in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
944-22-9	Florida	Freshwater and Marine Water Contaminant Cleanup	Not specified	0.000100	
944-22-9	Illinois	Chronic – General Use	Not specified	0.000028	195
944-22-9	Illinois	Acute – General Use	Not specified	0.000660	

Benchmark Values for Fonofos in Surface Water

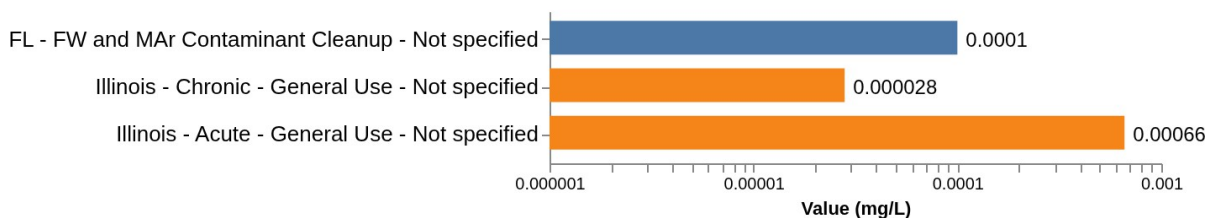


Table 293: Benchmark Values for Formaldehyde in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
50-00-0	Florida	Freshwater and Marine Water Contaminant Cleanup	Not specified	0.11
50-00-0	Illinois	Chronic – General Use	Not specified	0.39
50-00-0	Illinois	Acute – General Use	Not specified	4.90

Benchmark Values for Formaldehyde in Surface Water

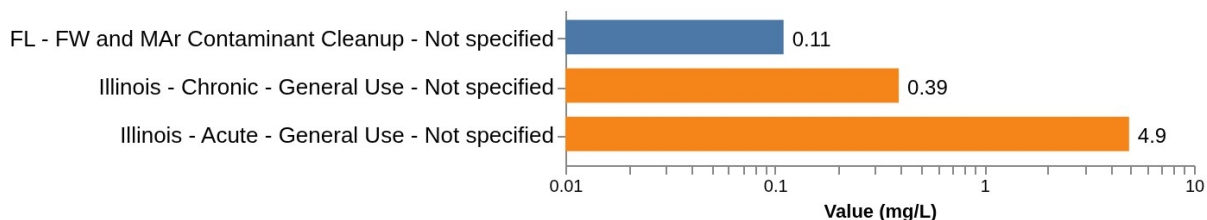


Table 294: Benchmark Values for Formic Acid in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
64-18-6	Florida	Freshwater and Marine Water Contaminant Cleanup	Not specified	4.5

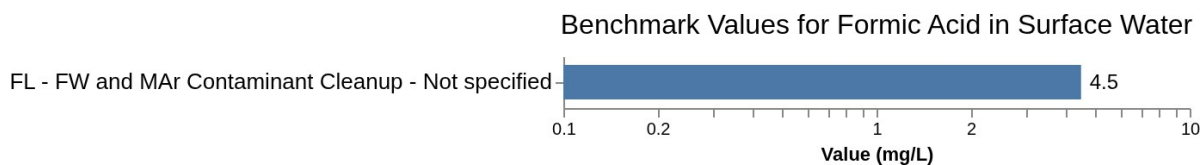


Table 295: Benchmark Values for Furfural in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
98-01-1	Florida	Freshwater and Marine Water Contaminant Cleanup	Not specified	0.65
98-01-1	Illinois	Chronic – General Use	Not specified	0.10
98-01-1	Illinois	Acute – General Use	Not specified	1.30

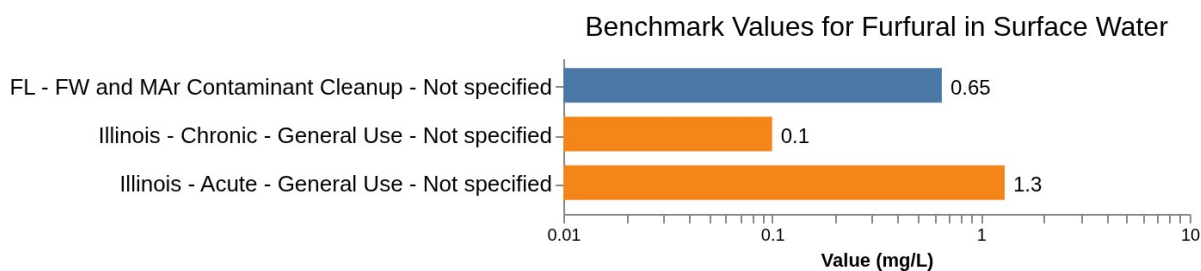


Table 296: Benchmark Values for Furfuryl Alcohol in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
98-00-0	Illinois	Chronic – General Use	Not specified	2	195
98-00-0	Illinois	Acute – General Use	Not specified	20	195

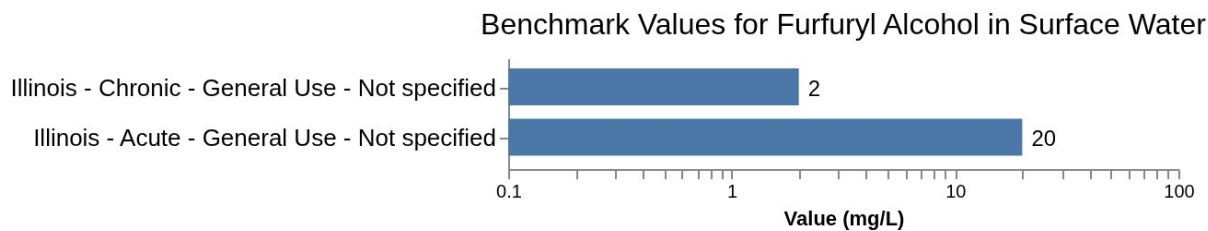


Table 297: Benchmark Values for Glyphosate in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
1071-83-6	Canada	Water Livestock	Not specified	0.28
1071-83-6	Florida	Freshwater and Marine Water Contaminant Cleanup	Not specified	0.12
1071-83-6	Illinois	Chronic – General Use	Not specified	0.12
1071-83-6	Illinois	Acute – General Use	Not specified	1.50

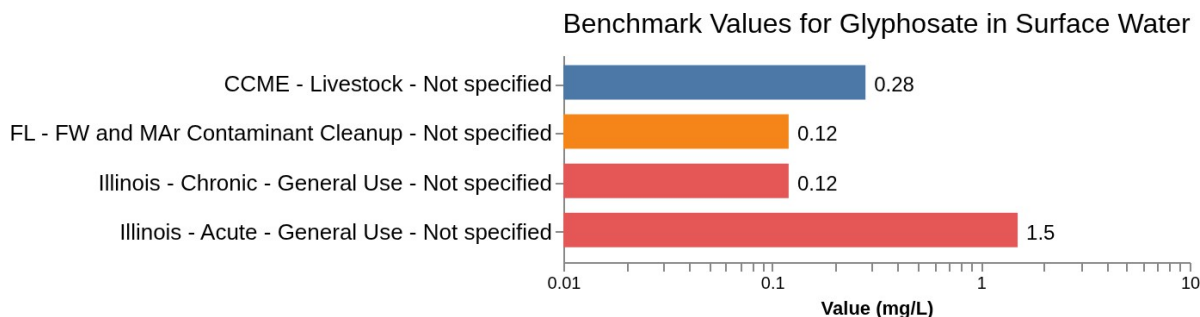


Table 298: Benchmark Values for Heptachlor Epoxide in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
1024-57-3	EPA Region 5	EPA RCRA Surface Water	Not specified	0.000004	
1024-57-3	Illinois	Chronic – General Use	Not specified	0.000004	196
1024-57-3	Illinois	Acute – General Use	Not specified	0.000520	196

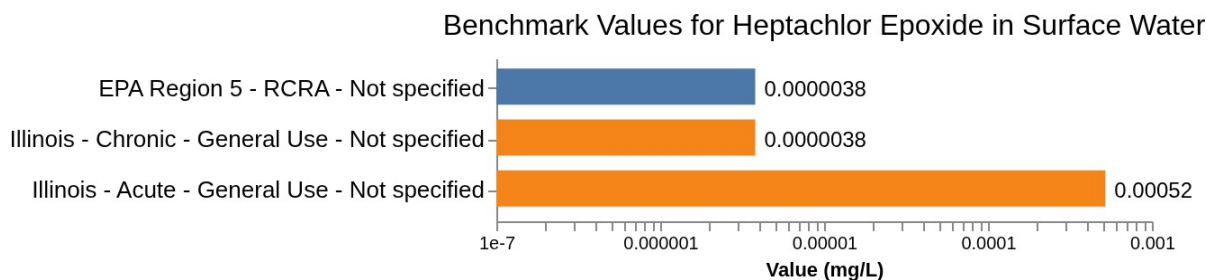


Table 299: Benchmark Values for Heptachlor in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
76-44-8	EPA Region 5	EPA RCRA Surface Water	Not specified	3.800000e-06	
76-44-8	Florida	SWQS for Shellfish Propagation or Harvesting	Not specified	2.100000e-07	
76-44-8	Illinois	Chronic – General Use	Not specified	3.800000e-06	196
76-44-8	Illinois	Acute – General Use	Not specified	5.200000e-04	196
76-44-8	LANL ECORISK	Surface Water No Effect ESL	Aquatic community organisms	3.800000e-06	
76-44-8	LANL ECORISK	Surface Water Low Effect ESL	Aquatic community organisms	3.800000e-05	
76-44-8	LANL ECORISK	Surface Water No Effect ESL	Montane shrew	4.400000e-01	
76-44-8	LANL ECORISK	Surface Water No Effect ESL	Deer mouse	5.200000e-01	
76-44-8	LANL ECORISK	Surface Water No Effect ESL	Occult little brown myotis bat	6.200000e-01	
76-44-8	LANL ECORISK	Surface Water No Effect ESL	Mountain cottontail	1.000000e+00	
76-44-8	LANL ECORISK	Surface Water No Effect ESL	Gray fox	1.100000e+00	
76-44-8	LANL ECORISK	Surface Water No Effect ESL	Violet–green swallow	3.800000e+00	
76-44-8	LANL ECORISK	Surface Water Low Effect ESL	Montane shrew	4.400000e+00	
76-44-8	LANL ECORISK	Surface Water Low Effect ESL	Deer mouse	5.200000e+00	
76-44-8	LANL ECORISK	Surface Water Low Effect ESL	Occult little brown myotis bat	6.200000e+00	
76-44-8	LANL ECORISK	Surface Water No Effect ESL	American robin	6.500000e+00	
76-44-8	LANL ECORISK	Surface Water No Effect ESL	American kestrel	7.600000e+00	
76-44-8	LANL ECORISK	Surface Water Low Effect ESL	Mountain cottontail	1.000000e+01	
76-44-8	LANL ECORISK	Surface Water Low Effect ESL	Gray fox	1.100000e+01	
76-44-8	LANL ECORISK	Surface Water Low Effect ESL	Violet–green swallow	3.800000e+01	
76-44-8	LANL ECORISK	Surface Water Low Effect ESL	American robin	6.500000e+01	
76-44-8	LANL ECORISK	Surface Water Low Effect ESL	American kestrel	7.600000e+01	
76-44-8	ORNL	EC20 Sensitive Species	Not specified	4.000000e-06	
76-44-8	ORNL	Tier II Secondary Chronic Value	Not specified	6.900000e-06	27
76-44-8	ORNL	EC25 Bass Population	Not specified	1.000000e-04	
76-44-8	ORNL	Tier II Secondary Acute Value	Not specified	1.250000e-04	
76-44-8	ORNL	EC20 Fish	Not specified	8.600000e-04	
76-44-8	ORNL	SW Lowest Chronic Value – Fish	Not specified	1.260000e-03	
76-44-8	ORNL	SW Lowest Chronic Value – All Organisms	Not specified	1.260000e-03	
76-44-8	ORNL	SW Lowest Chronic Value – Daphnids	Not specified	3.180000e-03	24
76-44-8	ORNL	SW Lowest Chronic Value – Aquatic Plants	Not specified	2.670000e-02	

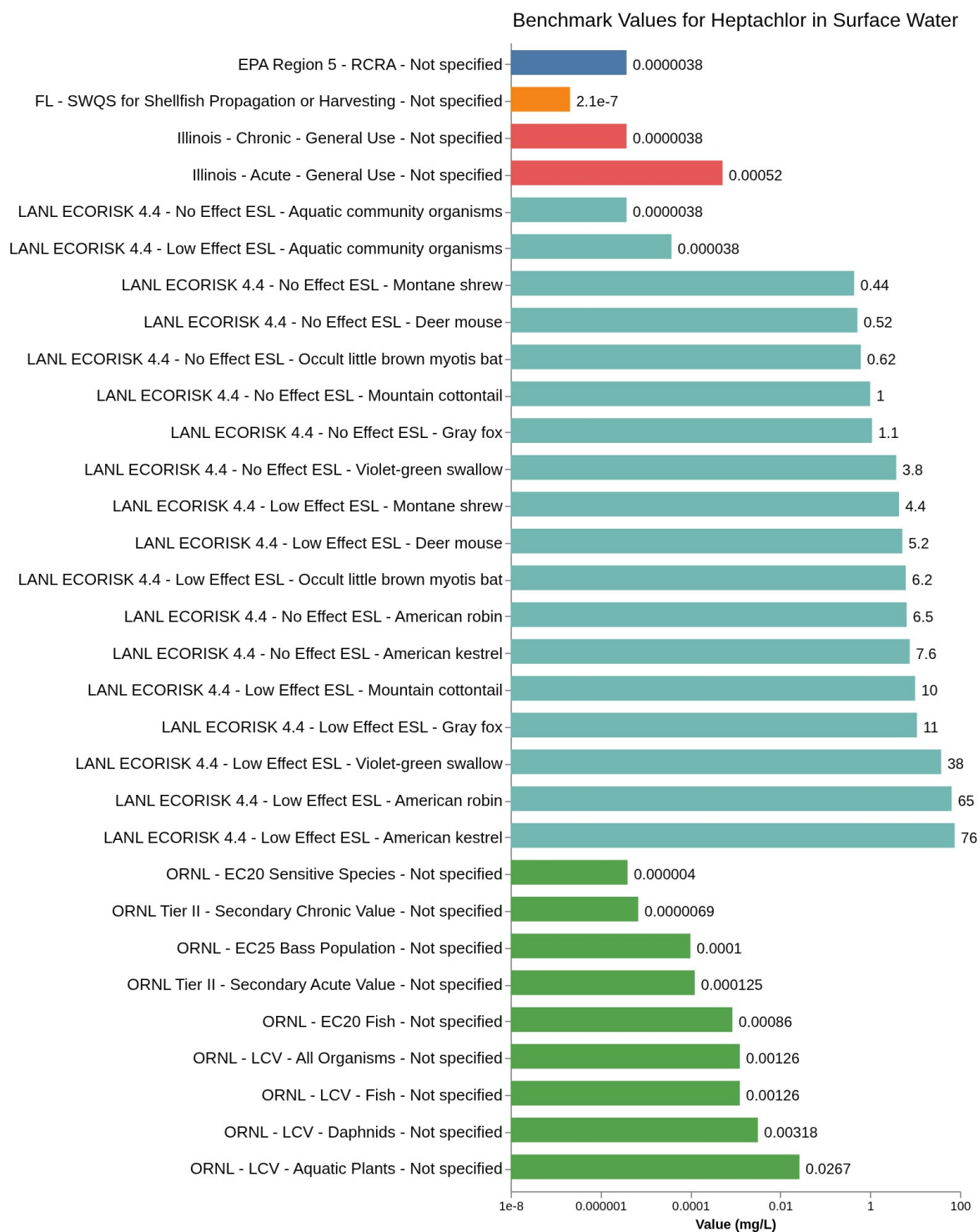


Table 300: Benchmark Values for Heptane, N- in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
142-82-5	Illinois	Chronic – General Use	Not specified	0.66	195
142-82-5	Illinois	Acute – General Use	Not specified	8.30	195

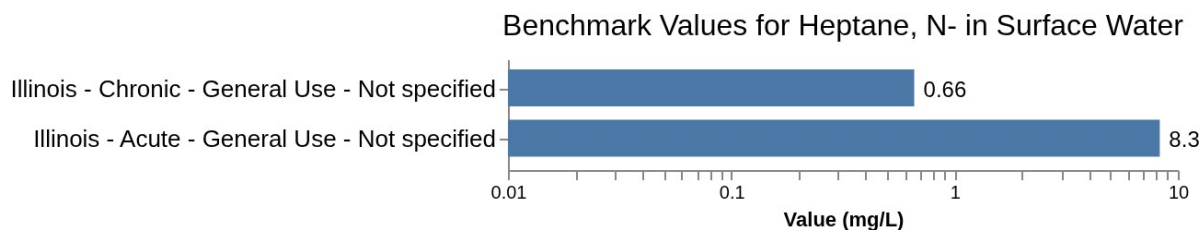


Table 301: Benchmark Values for Hexachlorobenzene in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
118-74-1	Canada	Water Livestock	Not specified	5.200000e-04
118-74-1	EPA Region 5	EPA RCRA Surface Water	Not specified	3.000000e-07

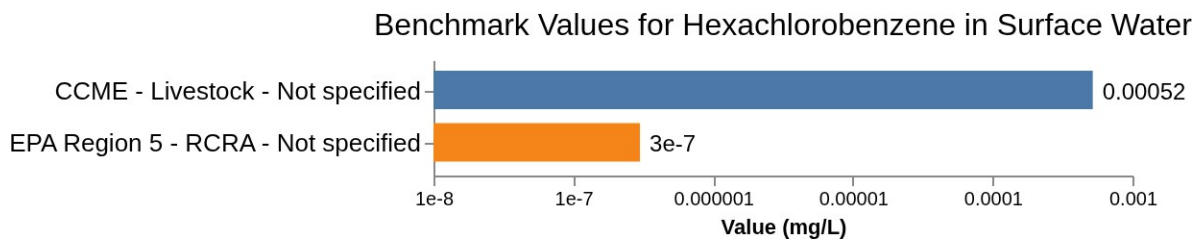


Table 302: Benchmark Values for Hexachlorobutadiene in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
87-68-3	EPA Region 5	EPA RCRA Surface Water	Not specified	0.000053
87-68-3	Florida	SWQS for Shellfish Propagation or Harvesting	Not specified	0.049700
87-68-3	Illinois	Chronic – General Use	Not specified	0.002800
87-68-3	Illinois	Acute – General Use	Not specified	0.035000

Benchmark Values for Hexachlorobutadiene in Surface Water

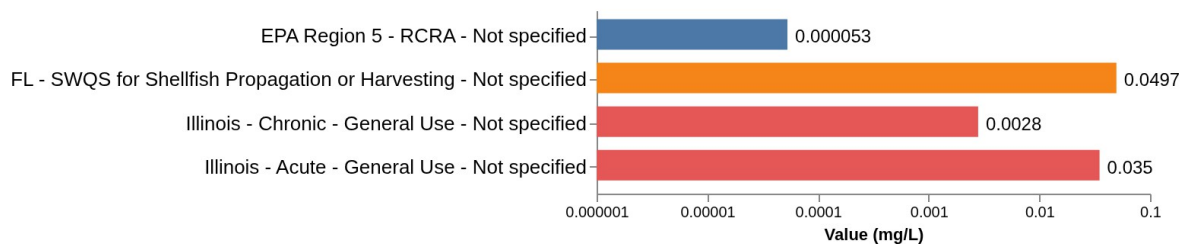


Table 303: Benchmark Values for Hexachlorocyclohexane, (total) in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
000000-02-2	ORNL	SW Lowest Chronic Value – All Organisms	Not specified	0.095	24

Benchmark Values for Hexachlorocyclohexane, (total) in Surface Water

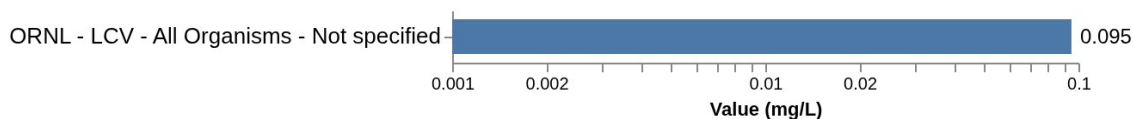


Table 304: Benchmark Values for Hexachlorocyclohexane, Alpha- in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
319-84-6	EPA Region 5	EPA RCRA Surface Water	Not specified	0.0124	
319-84-6	Illinois	Chronic – General Use	Not specified	0.0025	
319-84-6	Illinois	Acute – General Use	Not specified	0.0310	
319-84-6	ORNL	Tier II Secondary Chronic Value	Not specified	0.0022	
319-84-6	ORNL	Tier II Secondary Acute Value	Not specified	0.0390	
319-84-6	ORNL	SW Lowest Chronic Value – All Organisms	Not specified	0.0950	24
319-84-6	ORNL	SW Lowest Chronic Value – Daphnids	Not specified	0.0950	24

Benchmark Values for Hexachlorocyclohexane, Alpha- in Surface Water

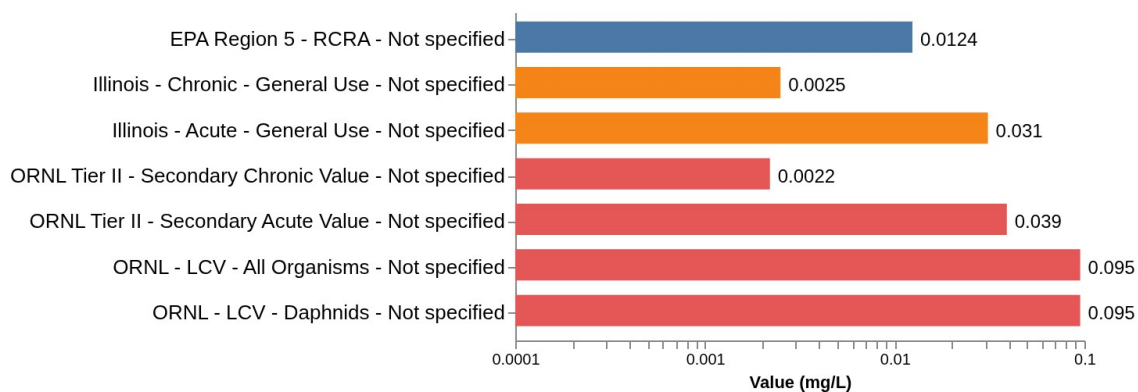


Table 305: Benchmark Values for Hexachlorocyclohexane, Beta- in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
319-85-7	EPA Region 5	EPA RCRA Surface Water	Not specified	0.000495	
319-85-7	Florida	SWQS for Shellfish Propagation or Harvesting	Not specified	0.000046	
319-85-7	LANL ECORISK	Surface Water No Effect ESL	Aquatic community organisms	0.002200	
319-85-7	LANL ECORISK	Surface Water Low Effect ESL	Aquatic community organisms	0.022000	
319-85-7	LANL ECORISK	Surface Water No Effect ESL	Montane shrew	1.700000	
319-85-7	LANL ECORISK	Surface Water No Effect ESL	Deer mouse	2.100000	
319-85-7	LANL ECORISK	Surface Water No Effect ESL	Occult little brown myotis bat	2.500000	
319-85-7	LANL ECORISK	Surface Water No Effect ESL	Mountain cottontail	4.100000	
319-85-7	LANL ECORISK	Surface Water No Effect ESL	Gray fox	4.600000	
319-85-7	LANL ECORISK	Surface Water Low Effect ESL	Montane shrew	8.900000	
319-85-7	LANL ECORISK	Surface Water Low Effect ESL	Deer mouse	10.000000	
319-85-7	LANL ECORISK	Surface Water Low Effect ESL	Occult little brown myotis bat	12.000000	
319-85-7	LANL ECORISK	Surface Water Low Effect ESL	Mountain cottontail	20.000000	
319-85-7	LANL ECORISK	Surface Water Low Effect ESL	Gray fox	23.000000	
319-85-7	LANL ECORISK	Surface Water No Effect ESL	Violet-green swallow	150.000000	
319-85-7	LANL ECORISK	Surface Water No Effect ESL	American robin	270.000000	
319-85-7	LANL ECORISK	Surface Water No Effect ESL	American kestrel	310.000000	
319-85-7	LANL ECORISK	Surface Water Low Effect ESL	Violet-green swallow	1500.000000	
319-85-7	LANL ECORISK	Surface Water Low Effect ESL	American robin	2700.000000	
319-85-7	LANL ECORISK	Surface Water Low Effect ESL	American kestrel	3100.000000	
319-85-7	ORNL	Tier II Secondary Chronic Value	Not specified	0.002200	
319-85-7	ORNL	Tier II Secondary Acute Value	Not specified	0.039000	
319-85-7	ORNL	SW Lowest Chronic Value – All Organisms	Not specified	0.095000	24
319-85-7	ORNL	SW Lowest Chronic Value – Daphnids	Not specified	0.095000	24

Benchmark Values for Hexachlorocyclohexane, Beta- in Surface Water

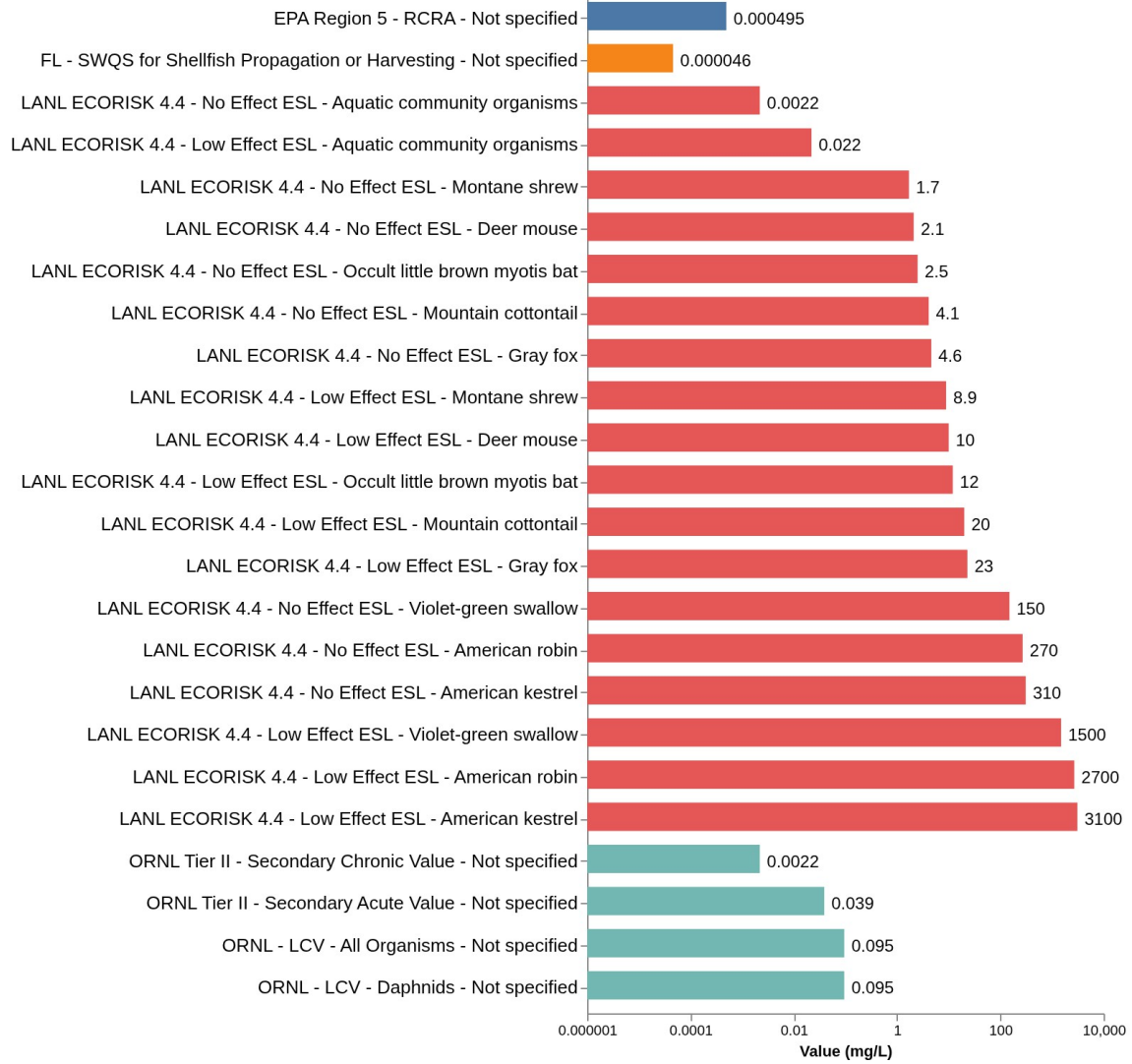


Table 306: Benchmark Values for Hexachlorocyclohexane, Delta- in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
319-86-8	EPA Region 5	EPA RCRA Surface Water	Not specified	0.6670	
319-86-8	ORNL	Tier II Secondary Chronic Value	Not specified	0.0022	
319-86-8	ORNL	EC20 Daphnids	Not specified	0.0110	
319-86-8	ORNL	Tier II Secondary Acute Value	Not specified	0.0390	
319-86-8	ORNL	SW Lowest Chronic Value – Daphnids	Not specified	0.0950	24
319-86-8	ORNL	SW Lowest Chronic Value – All Organisms	Not specified	0.0950	24

Benchmark Values for Hexachlorocyclohexane, Delta- in Surface Water

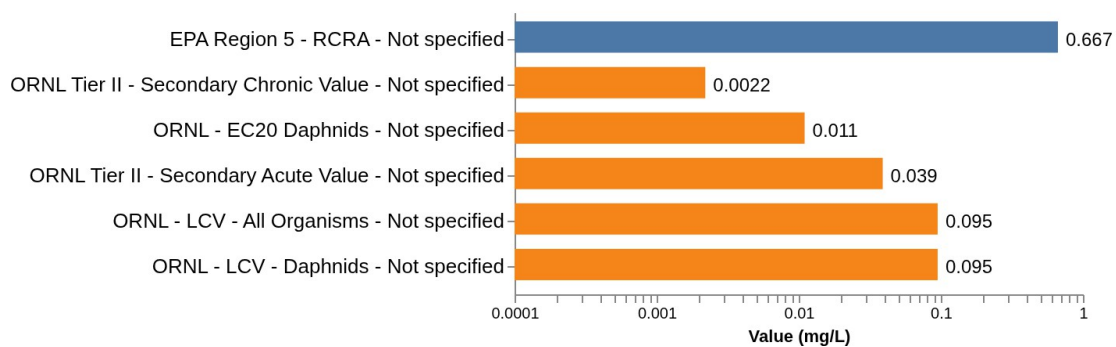


Table 307: Benchmark Values for Hexachlorocyclohexane, Gamma- (Lindane) in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
58-89-9	Canada	Water Livestock	Not specified	0.004000	
58-89-9	EPA Region 5	EPA RCRA Surface Water	Not specified	0.000026	
58-89-9	Illinois	Acute – General Use	Not specified	0.000950	196, 197
58-89-9	LANL ECORISK	Surface Water No Effect ESL	Aquatic community organisms	0.000095	
58-89-9	LANL ECORISK	Surface Water Low Effect ESL	Aquatic community organisms	0.000950	
58-89-9	LANL ECORISK	Surface Water No Effect ESL	Montane shrew	0.062000	
58-89-9	LANL ECORISK	Surface Water No Effect ESL	Deer mouse	0.073000	
58-89-9	LANL ECORISK	Surface Water No Effect ESL	Occult little brown myotis bat	0.088000	
58-89-9	LANL ECORISK	Surface Water No Effect ESL	Mountain cottontail	0.140000	
58-89-9	LANL ECORISK	Surface Water No Effect ESL	Gray fox	0.160000	
58-89-9	LANL ECORISK	Surface Water Low Effect ESL	Montane shrew	0.620000	
58-89-9	LANL ECORISK	Surface Water Low Effect ESL	Deer mouse	0.730000	
58-89-9	LANL ECORISK	Surface Water Low Effect ESL	Occult little brown myotis bat	0.880000	
58-89-9	LANL ECORISK	Surface Water Low Effect ESL	Mountain cottontail	1.400000	
58-89-9	LANL ECORISK	Surface Water Low Effect ESL	Gray fox	1.600000	
58-89-9	LANL ECORISK	Surface Water No Effect ESL	Violet-green swallow	2.300000	
58-89-9	LANL ECORISK	Surface Water No Effect ESL	American robin	4.000000	
58-89-9	LANL ECORISK	Surface Water No Effect ESL	American kestrel	4.600000	
58-89-9	LANL ECORISK	Surface Water Low Effect ESL	Violet-green swallow	9.200000	
58-89-9	LANL ECORISK	Surface Water Low Effect ESL	American robin	16.000000	
58-89-9	LANL ECORISK	Surface Water Low Effect ESL	American kestrel	18.000000	
58-89-9	ORNL	EC20 Sensitive Species	Not specified	0.000110	
58-89-9	ORNL	EC20 Fish	Not specified	0.001100	23
58-89-9	ORNL	SW Lowest Chronic Value – Non-Daphnid Inverts	Not specified	0.003300	
58-89-9	ORNL	SW Lowest Chronic Value – All Organisms	Not specified	0.003300	
58-89-9	ORNL	SW Lowest Chronic Value – Daphnids	Not specified	0.014500	
58-89-9	ORNL	SW Lowest Chronic Value – Fish	Not specified	0.014600	
58-89-9	ORNL	SW Lowest Chronic Value – Aquatic Plants	Not specified	0.500000	
58-89-9	Ohio	OMZM	Not specified	0.000950	192
58-89-9	Ohio	IMZM	Not specified	0.001900	192

Benchmark Values for Hexachlorocyclohexane, Gamma- (Lindane) in Surface Water

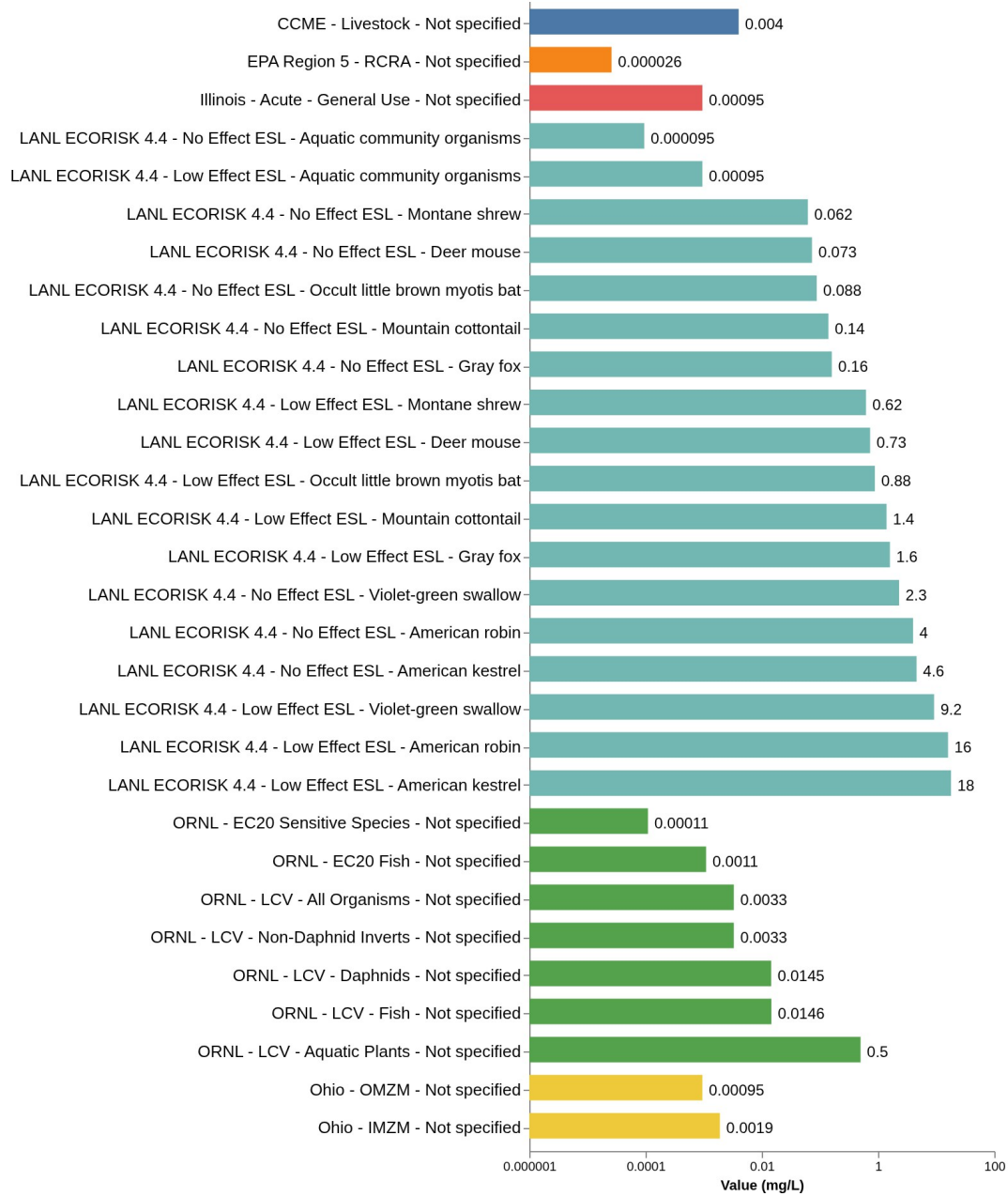


Table 308: Benchmark Values for Hexachlorocyclohexane, Technical in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
608-73-1	Florida	Freshwater and Marine Water Contaminant Cleanup	Not specified	0.00002
608-73-1	Illinois	Chronic – General Use	Not specified	0.00040
608-73-1	Illinois	Acute – General Use	Not specified	0.00500

Benchmark Values for Hexachlorocyclohexane, Technical in Surface Water

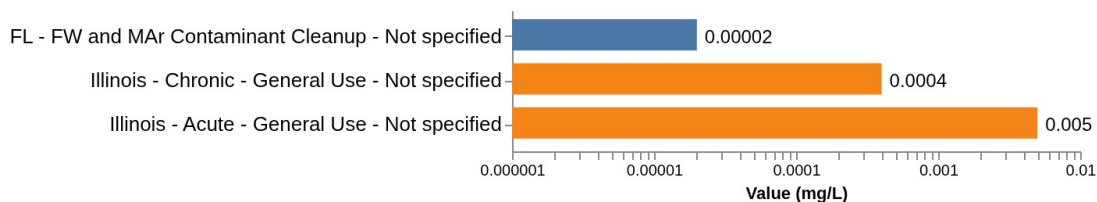


Table 309: Benchmark Values for Hexachlorocyclopentadiene in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
77-47-4	EPA Region 5	EPA RCRA Surface Water	Not specified	0.0770	
77-47-4	Florida	Freshwater and Marine Water Contaminant Cleanup	Not specified	0.0030	
77-47-4	Illinois	Chronic – General Use	Not specified	0.0001	195
77-47-4	Illinois	Acute – General Use	Not specified	0.0010	195

Benchmark Values for Hexachlorocyclopentadiene in Surface Water

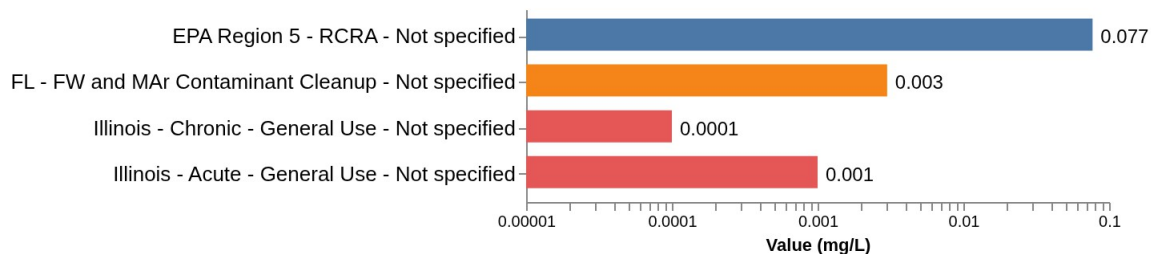


Table 310: Benchmark Values for Hexachloroethane in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
67-72-1	EPA Region 4	Freshwater and Saltwater Chronic Narcotic MOA	Not specified	0.033
67-72-1	EPA Region 4	Freshwater and Saltwater Acute, Narcotic MOA	Not specified	0.178
67-72-1	EPA Region 5	EPA RCRA Surface Water	Not specified	0.008
67-72-1	Illinois	Chronic – General Use	Not specified	0.031
67-72-1	Illinois	Acute – General Use	Not specified	0.380
67-72-1	ORNL	Tier II Secondary Chronic Value	Not specified	0.012
67-72-1	ORNL	Tier II Secondary Acute Value	Not specified	0.210

Benchmark Values for Hexachloroethane in Surface Water

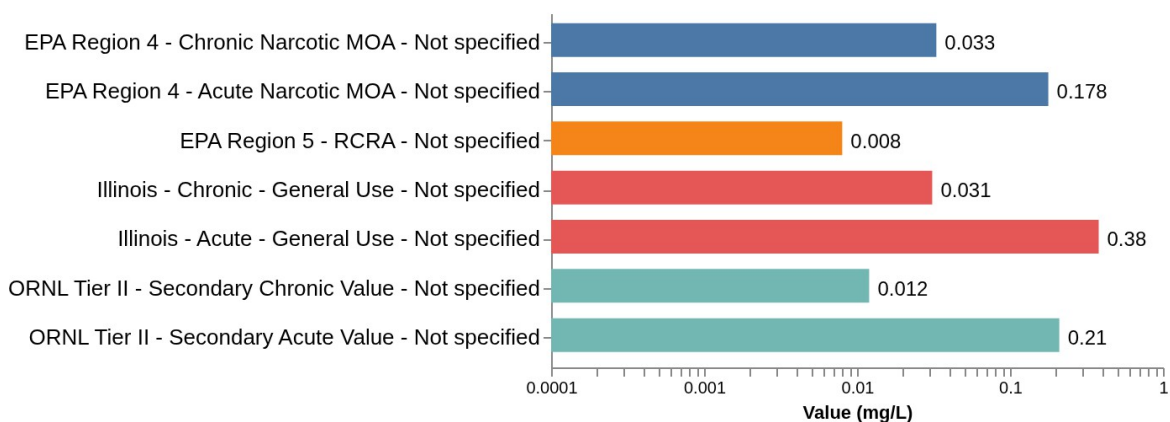


Table 311: Benchmark Values for Hexachlorophene in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
70-30-4	EPA Region 5	EPA RCRA Surface Water	Not specified	0.000228
70-30-4	Florida	Freshwater and Marine Water Contaminant Cleanup	Not specified	0.001100

Benchmark Values for Hexachlorophene in Surface Water

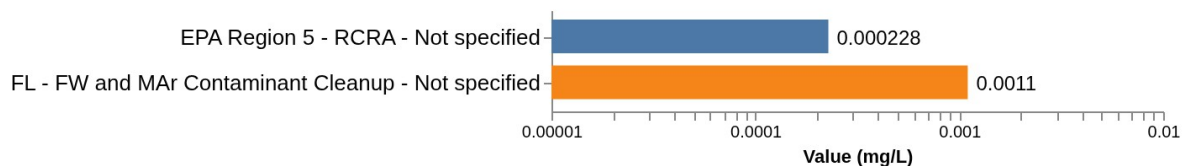


Table 312: Benchmark Values for Hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX) in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
121-82-4	Florida	Freshwater and Marine Water Contaminant Cleanup	Not specified	0.18
121-82-4	Illinois	Chronic – General Use	Not specified	0.50
121-82-4	Illinois	Acute – General Use	Not specified	2.00
121-82-4	LANL ECORISK	Surface Water No Effect ESL	Montane shrew	44.00
121-82-4	LANL ECORISK	Surface Water No Effect ESL	Deer mouse	52.00
121-82-4	LANL ECORISK	Surface Water No Effect ESL	Occult little brown myotis bat	62.00
121-82-4	LANL ECORISK	Surface Water No Effect ESL	Mountain cottontail	100.00
121-82-4	LANL ECORISK	Surface Water No Effect ESL	Gray fox	110.00
121-82-4	LANL ECORISK	Surface Water Low Effect ESL	Montane shrew	440.00
121-82-4	LANL ECORISK	Surface Water Low Effect ESL	Deer mouse	520.00
121-82-4	LANL ECORISK	Surface Water Low Effect ESL	Occult little brown myotis bat	620.00
121-82-4	LANL ECORISK	Surface Water Low Effect ESL	Mountain cottontail	1000.00
121-82-4	LANL ECORISK	Surface Water Low Effect ESL	Gray fox	1100.00

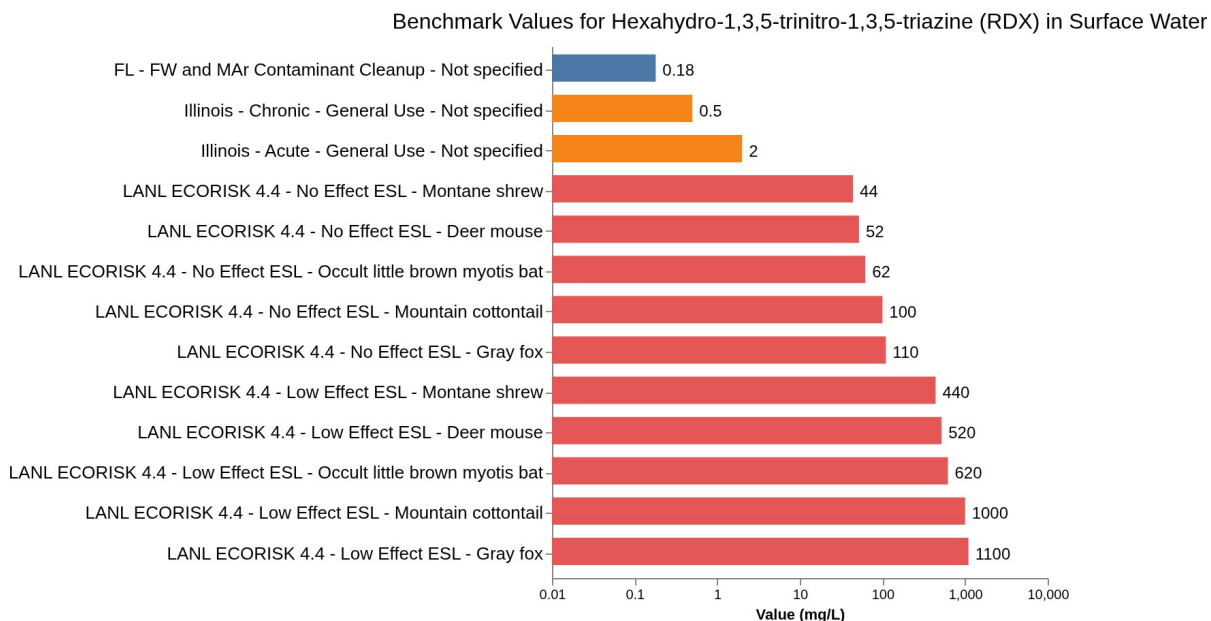


Table 313: Benchmark Values for Hexane, n- in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
110-54-3	Florida	Freshwater and Marine Water Contaminant Cleanup	Not specified	3.40000	
110-54-3	Illinois	Chronic – General Use	Not specified	0.02000	
110-54-3	Illinois	Acute – General Use	Not specified	0.25000	
110-54-3	ORNL	Tier II Secondary Chronic Value	Not specified	0.00058	
110-54-3	ORNL	Tier II Secondary Acute Value	Not specified	0.01000	
110-54-3	ORNL	EC20 Fish	Not specified	29.00000	29
110-54-3	ORNL	SW Lowest Chronic Value – Fish	Not specified	65.70000	24
110-54-3	ORNL	SW Lowest Chronic Value – All Organisms	Not specified	65.71200	24

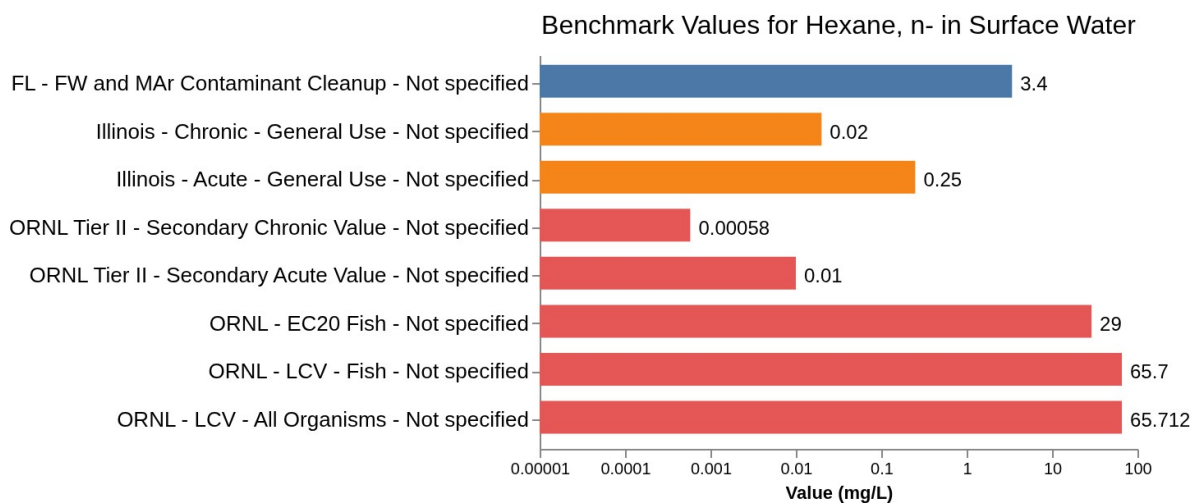


Table 314: Benchmark Values for Hexanone, 2- in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
591-78-6	EPA Region 4	Freshwater and Saltwater Chronic Narcotic MOA	Not specified	16.871	
591-78-6	EPA Region 4	Freshwater and Saltwater Acute, Narcotic MOA	Not specified	58.590	
591-78-6	EPA Region 5	EPA RCRA Surface Water	Not specified	0.099	
591-78-6	Illinois	Chronic – General Use	Not specified	0.950	195
591-78-6	Illinois	Acute – General Use	Not specified	12.000	195
591-78-6	ORNL	Tier II Secondary Chronic Value	Not specified	0.099	
591-78-6	ORNL	EC25 Bass Population	Not specified	1.260	
591-78-6	ORNL	Tier II Secondary Acute Value	Not specified	1.800	
591-78-6	ORNL	EC20 Fish	Not specified	16.200	29
591-78-6	ORNL	SW Lowest Chronic Value – All Organisms	Not specified	32.783	24
591-78-6	ORNL	SW Lowest Chronic Value – Fish	Not specified	32.800	24

Benchmark Values for Hexanone, 2- in Surface Water

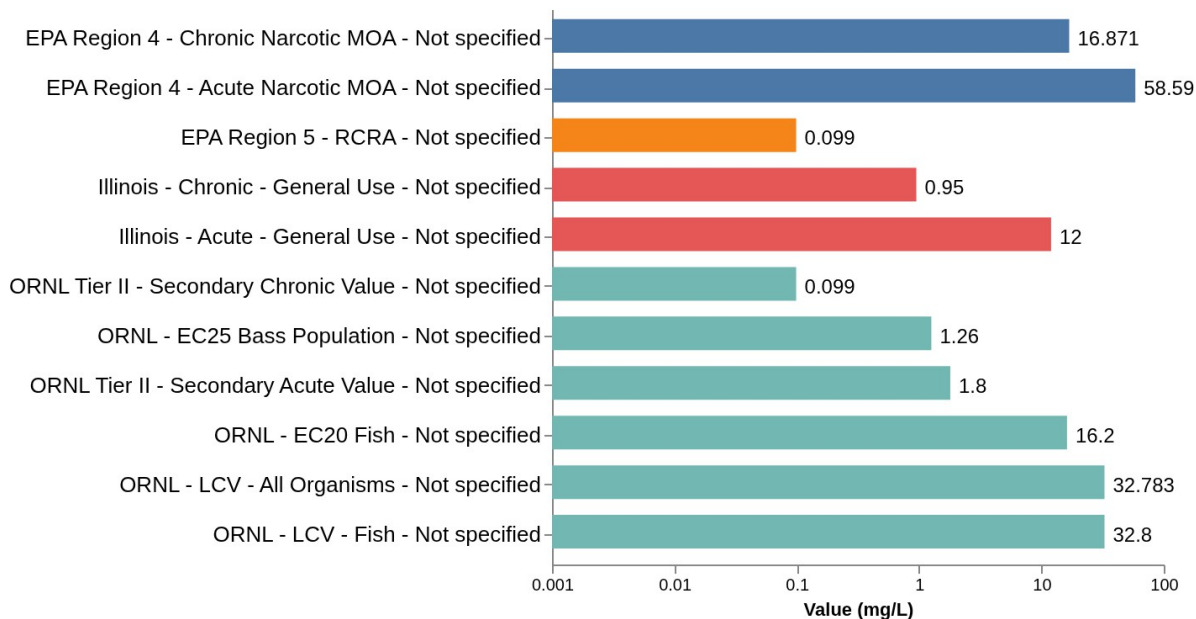


Table 315: Benchmark Values for Hydrazine in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
302-01-2	Illinois	Chronic – General Use	Not specified	0.0015
302-01-2	Illinois	Acute – General Use	Not specified	0.0190

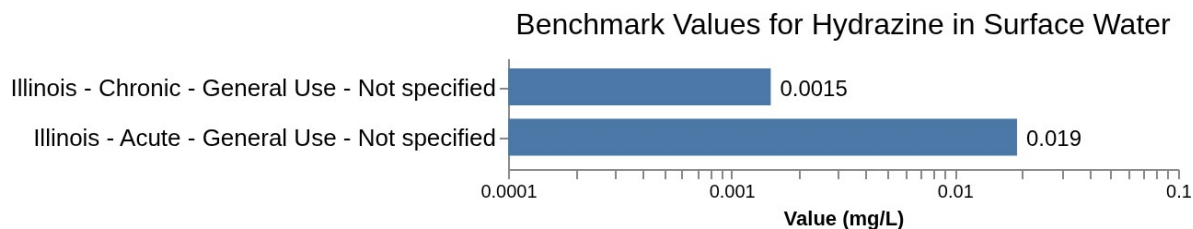


Table 316: Benchmark Values for Hydrogen Cyanide in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
74-90-8	Florida	Freshwater and Marine Water Contaminant Cleanup	Not specified	0.0035

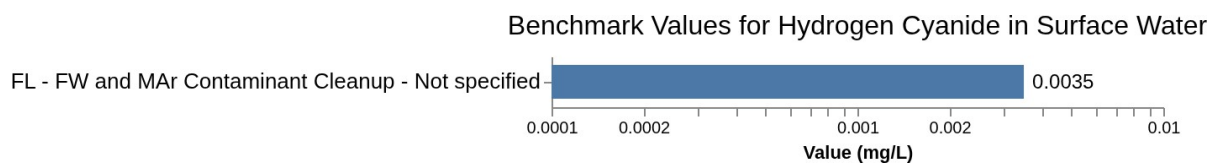


Table 317: Benchmark Values for Hydrogen Sulfide in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
7783-06-4	Florida	Freshwater and Marine Water Contaminant Cleanup	Not specified	0.0001

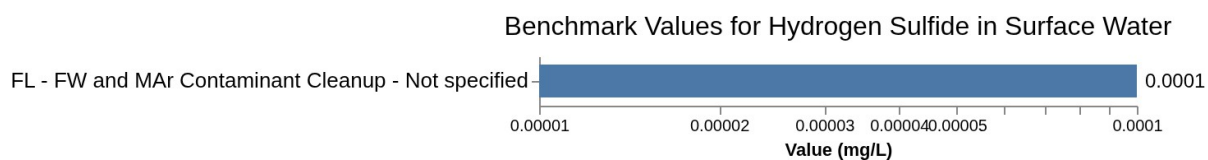


Table 318: Benchmark Values for Hydroquinone in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
123-31-9	Florida	Freshwater and Marine Water Contaminant Cleanup	Not specified	0.0045
123-31-9	Illinois	Chronic – General Use	Not specified	0.0008
123-31-9	Illinois	Acute – General Use	Not specified	0.0100

Benchmark Values for Hydroquinone in Surface Water

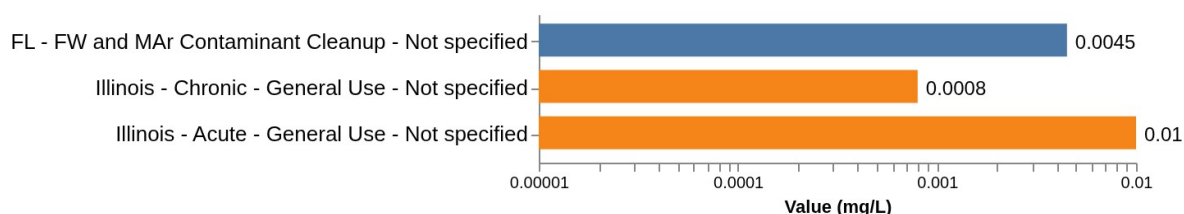


Table 319: Benchmark Values for Hydroxy-4-methyl-2-pentanone , 4- in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
123-42-2	Illinois	Chronic – General Use	Not specified	3.4
123-42-2	Illinois	Acute – General Use	Not specified	42.0

Benchmark Values for Hydroxy-4-methyl-2-pentanone , 4- in Surface Water

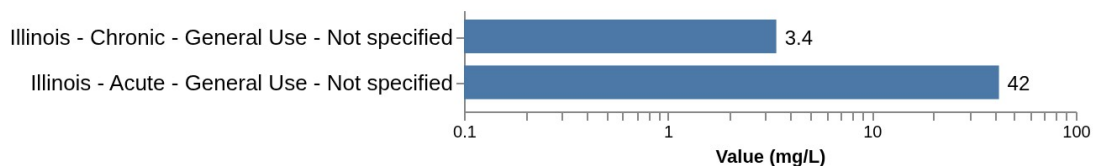


Table 320: Benchmark Values for Indane in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
496-11-7	EPA ESBs	Final Chronic Value	Not specified	0.2745

Benchmark Values for Indane in Surface Water

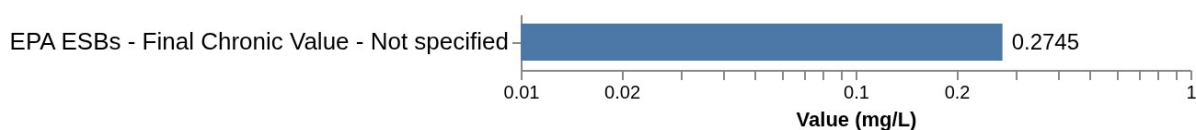
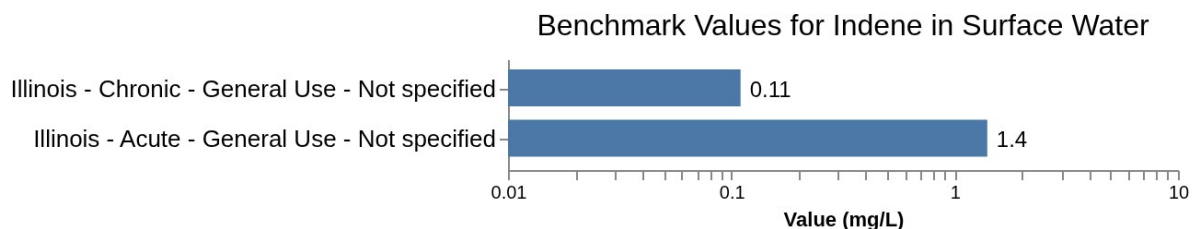


Table 321: Benchmark Values for Indene in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
95-13-6	Illinois	Chronic – General Use	Not specified	0.11
95-13-6	Illinois	Acute – General Use	Not specified	1.40

**Table 322: Benchmark Values for Indeno[1,2,3-cd]pyrene in Surface Water**

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
193-39-5	EPA ESBs	Final Chronic Value	Not specified	0.000275	
193-39-5	EPA Region 4	Freshwater and Saltwater Chronic for PAHs	Not specified	0.000280	7
193-39-5	EPA Region 4	Freshwater and Saltwater Acute for PAHs	Not specified	0.000570	7
193-39-5	EPA Region 5	EPA RCRA Surface Water	Not specified	0.004310	
193-39-5	LANL ECORISK	Surface Water No Effect ESL	Aquatic community organisms	0.004300	
193-39-5	LANL ECORISK	Surface Water Low Effect ESL	Aquatic community organisms	0.043000	
193-39-5	LANL ECORISK	Surface Water No Effect ESL	Montane shrew	32.000000	
193-39-5	LANL ECORISK	Surface Water No Effect ESL	Deer mouse	37.000000	
193-39-5	LANL ECORISK	Surface Water No Effect ESL	Occult little brown myotis bat	45.000000	
193-39-5	LANL ECORISK	Surface Water No Effect ESL	Mountain cottontail	74.000000	
193-39-5	LANL ECORISK	Surface Water No Effect ESL	Gray fox	83.000000	
193-39-5	LANL ECORISK	Surface Water Low Effect ESL	Montane shrew	320.000000	
193-39-5	LANL ECORISK	Surface Water Low Effect ESL	Deer mouse	370.000000	
193-39-5	LANL ECORISK	Surface Water Low Effect ESL	Occult little brown myotis bat	450.000000	
193-39-5	LANL ECORISK	Surface Water Low Effect ESL	Mountain cottontail	740.000000	
193-39-5	LANL ECORISK	Surface Water Low Effect ESL	Gray fox	830.000000	

Benchmark Values for Indeno[1,2,3-cd]pyrene in Surface Water

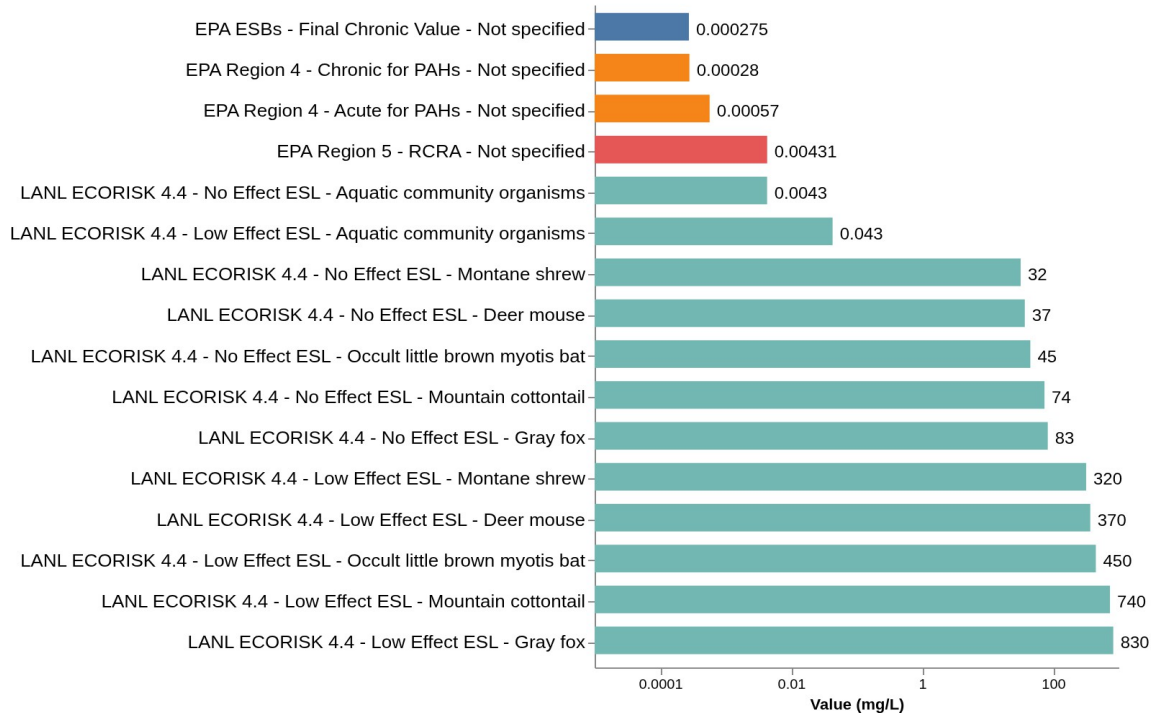


Table 323: Benchmark Values for Iodine in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
7553-56-2	Illinois	Chronic – General Use	Not specified	0.0049	195
7553-56-2	Illinois	Acute – General Use	Not specified	0.0610	195

Benchmark Values for Iodine in Surface Water

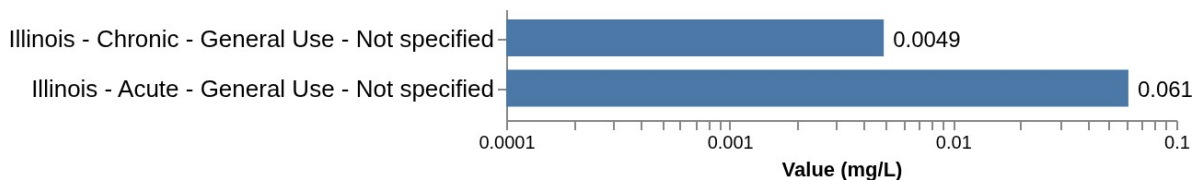


Table 324: Benchmark Values for Iprodione in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
36734-19-7	Florida	Freshwater and Marine Water Contaminant Cleanup	Not specified	0.15

Benchmark Values for Iprodione in Surface Water

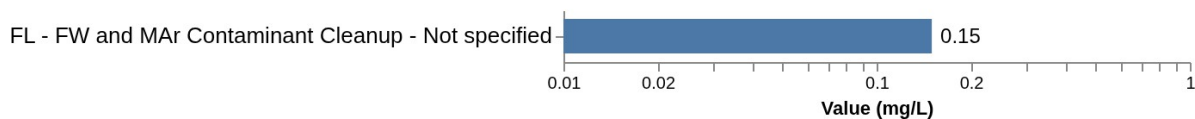


Table 325: Benchmark Values for Iron in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
7439-89-6	Canada	Water Irrigation	Not specified	5.0000
7439-89-6	Florida	SWQS for Shellfish Propagation or Harvesting	Not specified	0.3000
7439-89-6	LANL ECORISK	Surface Water No Effect ESL	Aquatic community organisms	1.0000
7439-89-6	LANL ECORISK	Surface Water Low Effect ESL	Aquatic community organisms	10.0000
7439-89-6	ORNL	SW Lowest Chronic Value – All Organisms	Not specified	0.0158
7439-89-6	ORNL	EC20 Daphnids	Not specified	0.0160
7439-89-6	ORNL	SW Lowest Chronic Value – Daphnids	Not specified	0.1580
7439-89-6	ORNL	SW Lowest Chronic Value – Fish	Not specified	1.3000

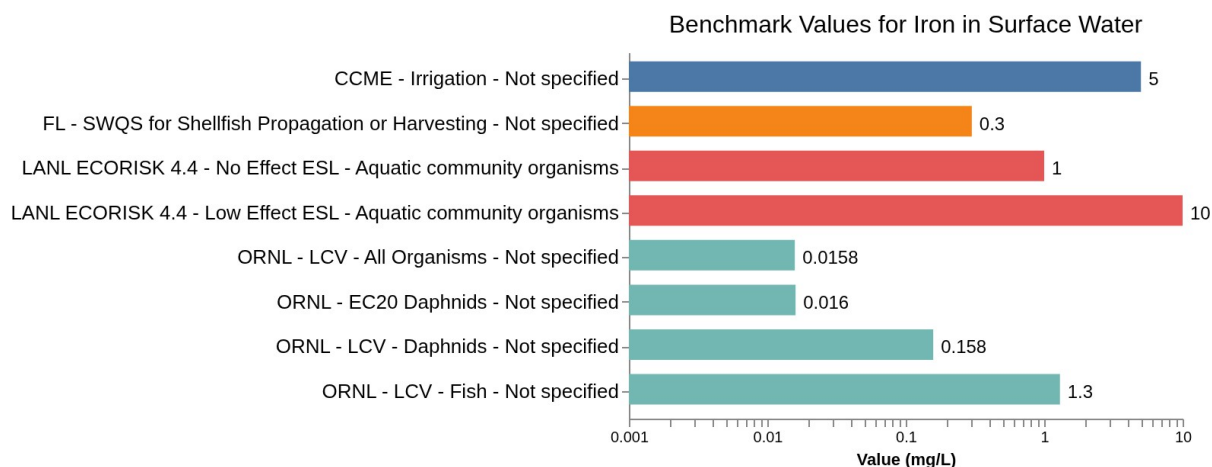


Table 326: Benchmark Values for Isobutyl Alcohol in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
78-83-1	Florida	Freshwater and Marine Water Contaminant Cleanup	Not specified	47.00	
78-83-1	Illinois	Chronic – General Use	Not specified	35.00	
78-83-1	Illinois	Acute – General Use	Not specified	430.00	
78-83-1	ORNL	SW Lowest Chronic Value – All Organisms	Not specified	0.59	24

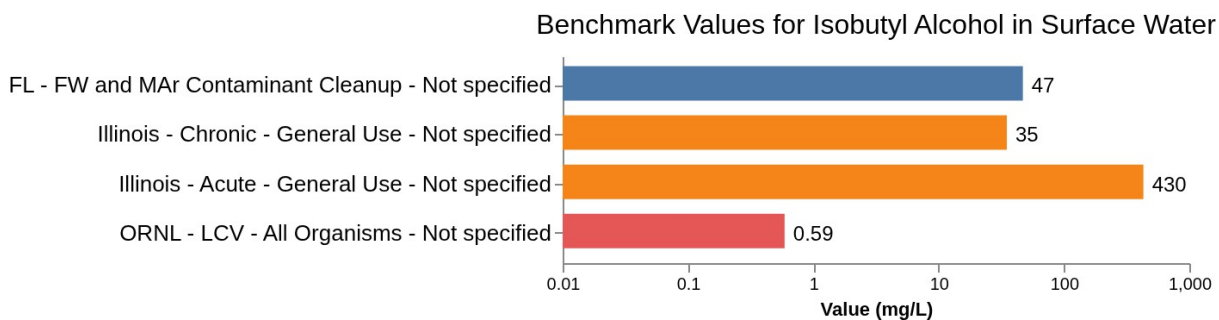


Table 327: Benchmark Values for Isodrin in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
465-73-6	EPA Region 5	EPA RCRA Surface Water	Not specified	0.000031	
465-73-6	Illinois	Chronic – General Use	Not specified	0.000100	195
465-73-6	Illinois	Acute – General Use	Not specified	0.001000	195

Benchmark Values for Isodrin in Surface Water

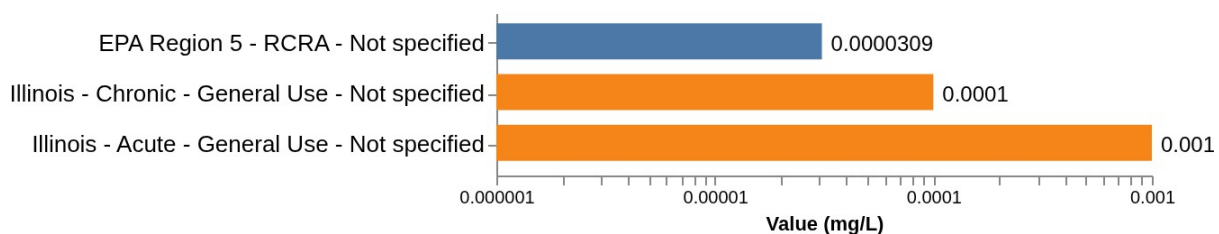


Table 328: Benchmark Values for Isophorone in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
78-59-1	EPA Region 4	Freshwater and Saltwater Chronic Narcotic MOA	Not specified	0.996
78-59-1	EPA Region 4	Freshwater and Saltwater Acute, Narcotic MOA	Not specified	3.807
78-59-1	EPA Region 5	EPA RCRA Surface Water	Not specified	0.920
78-59-1	Florida	Freshwater and Marine Water Contaminant Cleanup	Not specified	0.650
78-59-1	Illinois	Chronic – General Use	Not specified	0.960
78-59-1	Illinois	Acute – General Use	Not specified	12.000

Benchmark Values for Isophorone in Surface Water

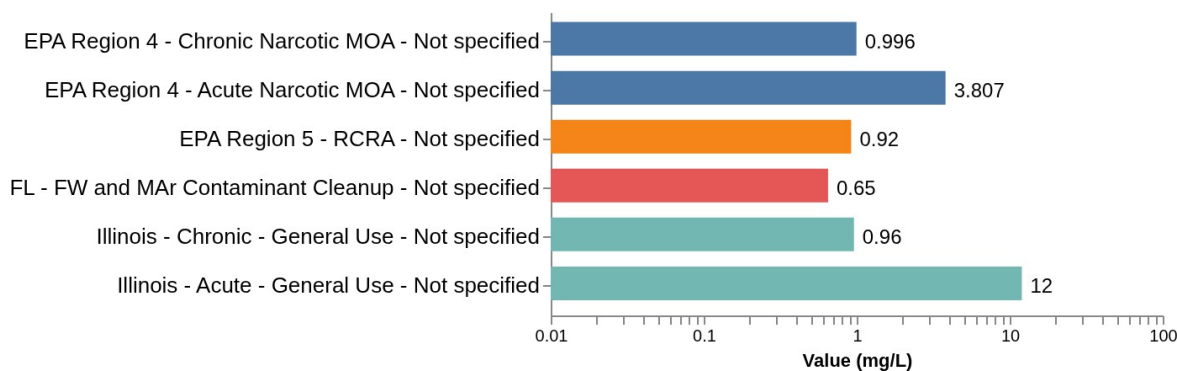


Table 329: Benchmark Values for Isopropanol in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
67-63-0	EPA Region 4	Freshwater and Saltwater Chronic Narcotic MOA	Not specified	52.8740	
67-63-0	EPA Region 4	Freshwater and Saltwater Acute, Narcotic MOA	Not specified	162.8540	
67-63-0	ORNL	Tier II Secondary Chronic Value	Not specified	0.0075	
67-63-0	ORNL	Tier II Secondary Acute Value	Not specified	0.1300	
67-63-0	ORNL	SW Lowest Chronic Value – Fish	Not specified	0.5900	24
67-63-0	ORNL	EC25 Bass Population	Not specified	3.1600	
67-63-0	ORNL	EC20 Fish	Not specified	35.4000	29

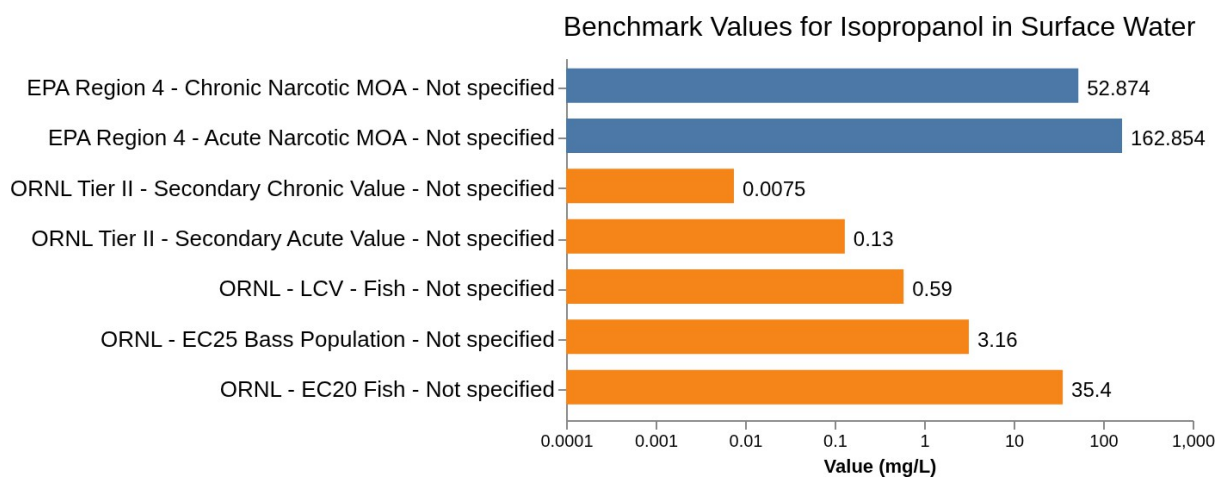


Table 330: Benchmark Values for Isopropyl acetate in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
108-21-4	Illinois	Chronic – General Use	Not specified	20.0	195
108-21-4	Illinois	Acute – General Use	Not specified	200.0	195

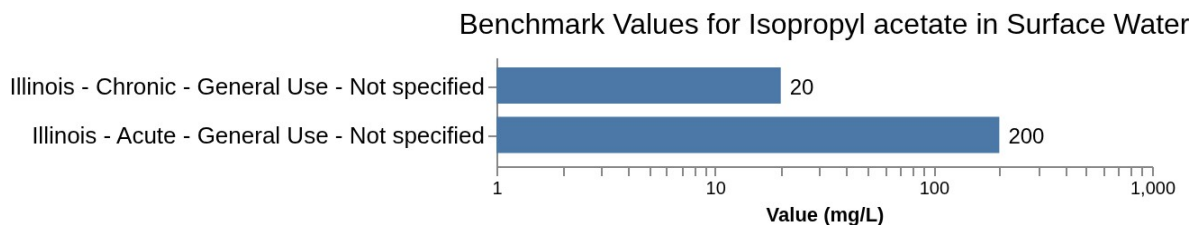


Table 331: Benchmark Values for Isopropyltoluene, p- in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
99-87-6	EPA Region 4	Freshwater and Saltwater Chronic Narcotic MOA	Not specified	0.0210	
99-87-6	EPA Region 4	Freshwater and Saltwater Acute, Narcotic MOA	Not specified	0.1870	
99-87-6	Illinois	Chronic – General Use	Not specified	0.0068	195
99-87-6	Illinois	Acute – General Use	Not specified	0.0850	195

Benchmark Values for Isopropyltoluene, p- in Surface Water

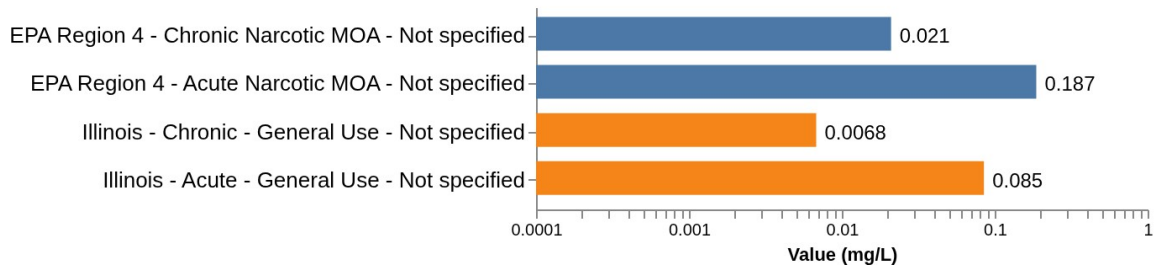


Table 332: Benchmark Values for Lead and Compounds in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
7439-92-1	British Columbia	Estuarine LTC	Not specified	0.00200	
7439-92-1	British Columbia	STA	Not specified	0.10000	
7439-92-1	British Columbia	Livestock STA	Not specified	0.10000	
7439-92-1	British Columbia	Estuarine STA	Not specified	0.14000	
7439-92-1	British Columbia	Irrigation STA	Not specified	0.20000	139
7439-92-1	Canada	Water Livestock	Not specified	0.10000	
7439-92-1	Canada	Water Irrigation	Not specified	0.20000	
7439-92-1	EPA Region 5	EPA RCRA Surface Water	Not specified	0.00117	12
7439-92-1	Florida	SWQS for Shellfish Propagation or Harvesting	Not specified	0.00850	
7439-92-1	LANL ECORISK	Surface Water No Effect ESL	Aquatic community organisms	0.00100	
7439-92-1	LANL ECORISK	Surface Water Low Effect ESL	Aquatic community organisms	0.01000	
7439-92-1	LANL ECORISK	Surface Water No Effect ESL	Montane shrew	4.30000	
7439-92-1	LANL ECORISK	Surface Water No Effect ESL	Deer mouse	5.10000	
7439-92-1	LANL ECORISK	Surface Water No Effect ESL	Occult little brown myotis bat	6.10000	
7439-92-1	LANL ECORISK	Surface Water No Effect ESL	Mountain cottontail	10.00000	
7439-92-1	LANL ECORISK	Surface Water No Effect ESL	Gray fox	11.00000	
7439-92-1	LANL ECORISK	Surface Water Low Effect ESL	Montane shrew	16.00000	
7439-92-1	LANL ECORISK	Surface Water Low Effect ESL	Deer mouse	19.00000	
7439-92-1	LANL ECORISK	Surface Water Low Effect ESL	Occult little brown myotis bat	23.00000	
7439-92-1	LANL ECORISK	Surface Water Low Effect ESL	Mountain cottontail	38.00000	
7439-92-1	LANL ECORISK	Surface Water Low Effect ESL	Gray fox	43.00000	
7439-92-1	LANL ECORISK	Surface Water No Effect ESL	Violet-green swallow	64.00000	
7439-92-1	LANL ECORISK	Surface Water No Effect ESL	American robin	110.00000	
7439-92-1	LANL ECORISK	Surface Water No Effect ESL	American kestrel	130.00000	
7439-92-1	LANL ECORISK	Surface Water Low Effect ESL	Violet-green swallow	640.00000	
7439-92-1	LANL ECORISK	Surface Water Low Effect ESL	American robin	1100.00000	
7439-92-1	LANL ECORISK	Surface Water Low Effect ESL	American kestrel	1300.00000	
7439-92-1	ORNL	EC20 Sensitive Species	Not specified	0.00035	
7439-92-1	ORNL	SW Lowest Chronic Value – All Organisms	Not specified	0.01226	
7439-92-1	ORNL	SW Lowest Chronic Value – Daphnids	Not specified	0.01230	
7439-92-1	ORNL	SW Lowest Chronic Value – Fish	Not specified	0.01890	
7439-92-1	ORNL	EC20 Fish	Not specified	0.02200	
7439-92-1	ORNL	SW Lowest Chronic Value – Non-Daphnid Inverts	Not specified	0.02550	
7439-92-1	ORNL	EC25 Bass Population	Not specified	0.07100	
7439-92-1	ORNL	SW Lowest Chronic Value – Aquatic Plants	Not specified	0.50000	
7439-92-1	Ohio	OMZA	Not specified	0.00510	186, 190
7439-92-1	Ohio	OMZM	Not specified	0.09700	186, 190
7439-92-1	Ohio	IMZM	Not specified	0.19000	186, 190

Benchmark Values for Lead and Compounds in Surface Water

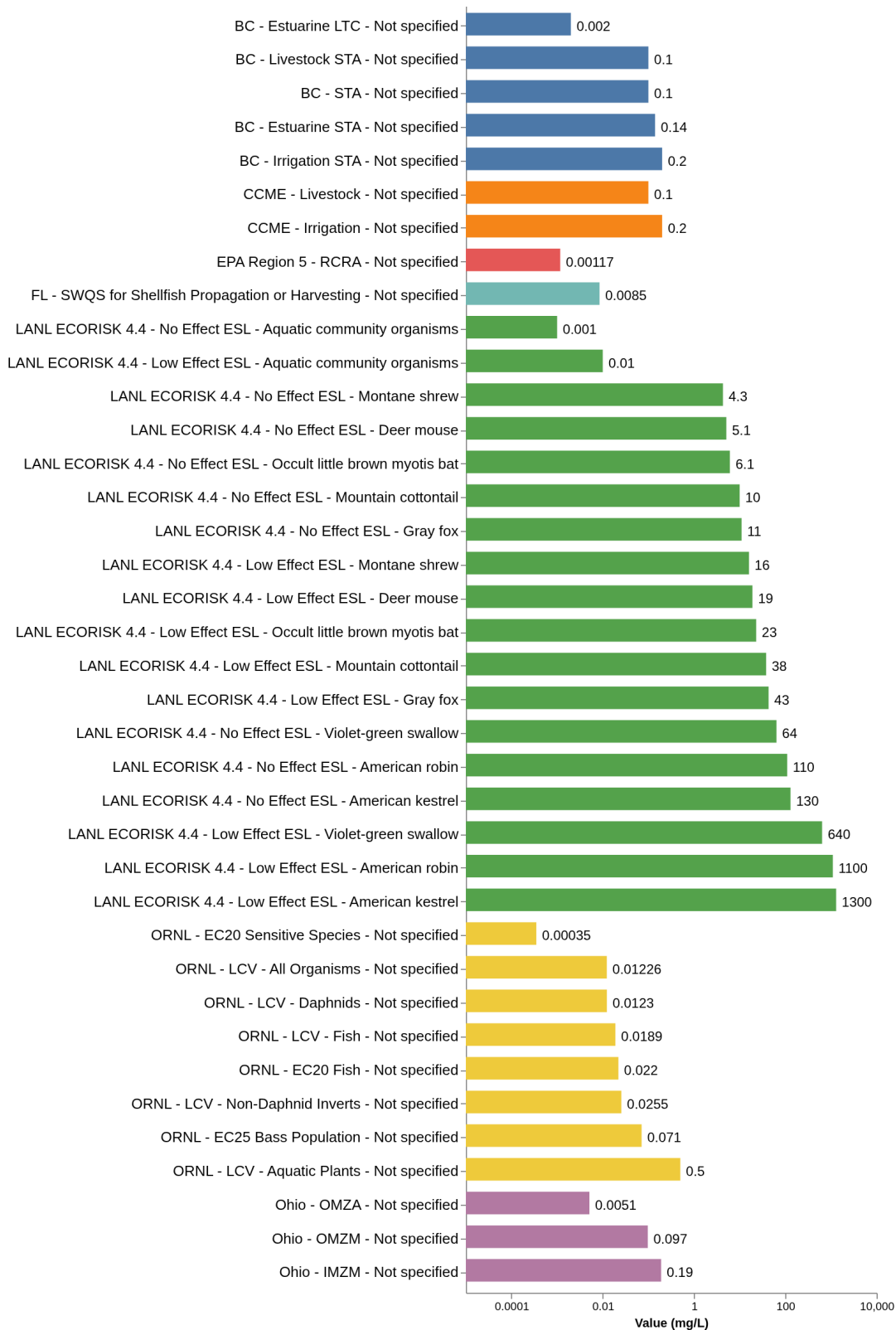


Table 333: Benchmark Values for Linuron in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
330-55-2	Canada	Water Irrigation	Not specified	0.000071	70
330-55-2	Florida	Freshwater and Marine Water Contaminant Cleanup	Not specified	0.045000	

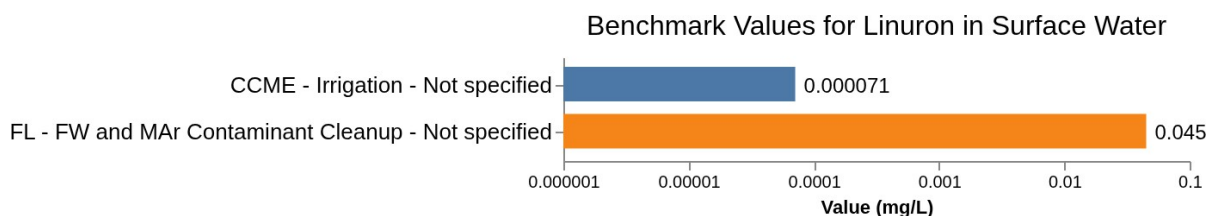


Table 334: Benchmark Values for Lithium in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
7439-93-2	Canada	Water Irrigation	Not specified	2.500
7439-93-2	ORNL	Tier II Secondary Chronic Value	Not specified	0.014
7439-93-2	ORNL	Tier II Secondary Acute Value	Not specified	0.260

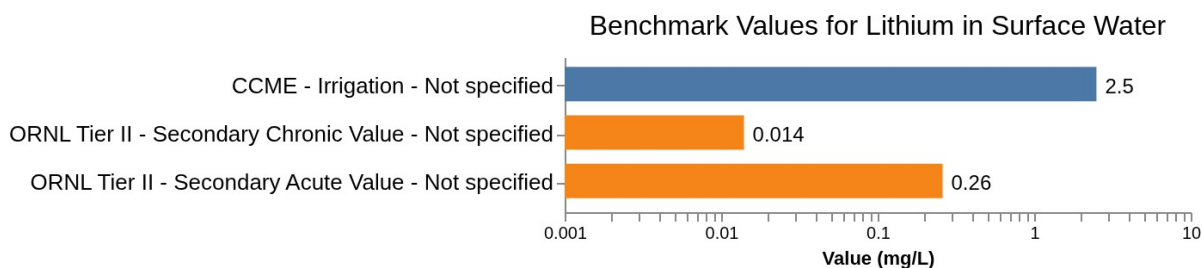


Table 335: Benchmark Values for Magnesium in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
7439-95-4	ORNL	SW Lowest Chronic Value – All Organisms	Not specified	82.0
7439-95-4	ORNL	SW Lowest Chronic Value – Daphnids	Not specified	82.0

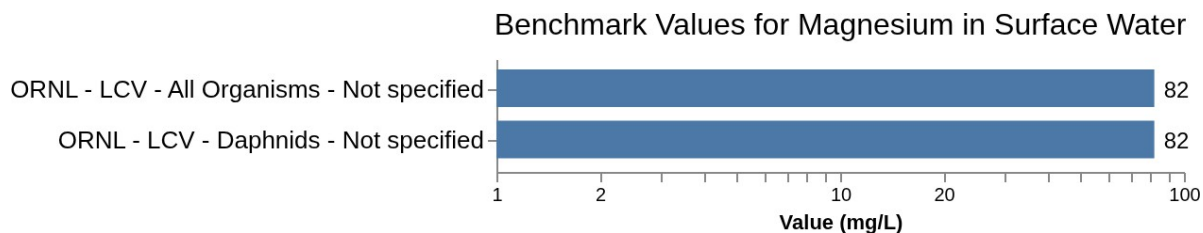


Table 336: Benchmark Values for Malathion in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
121-75-5	Florida	SWQS for Shellfish Propagation or Harvesting	Not specified	0.00010	
121-75-5	Illinois	Chronic – General Use	Not specified	0.00004	196
121-75-5	Illinois	Acute – General Use	Not specified	0.00400	196

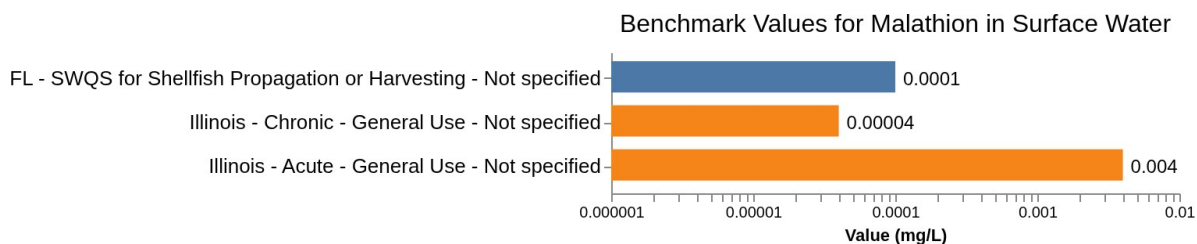


Table 337: Benchmark Values for Maleic Anhydride in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
108-31-6	Florida	Freshwater and Marine Water Contaminant Cleanup	Not specified	0.75

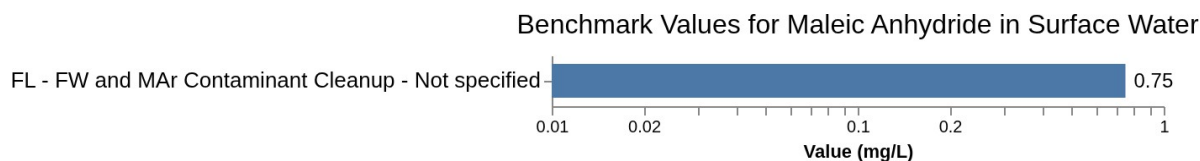


Table 338: Benchmark Values for Mancozeb in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
8018-01-7	Florida	Freshwater and Marine Water Contaminant Cleanup	Not specified	0.0035

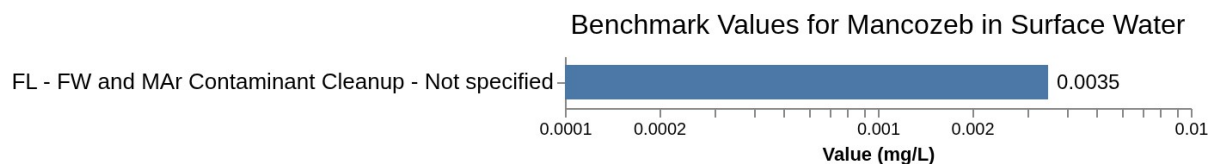


Table 339: Benchmark Values for Maneb in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
12427-38-2	Florida	Freshwater and Marine Water Contaminant Cleanup	Not specified	0.0055

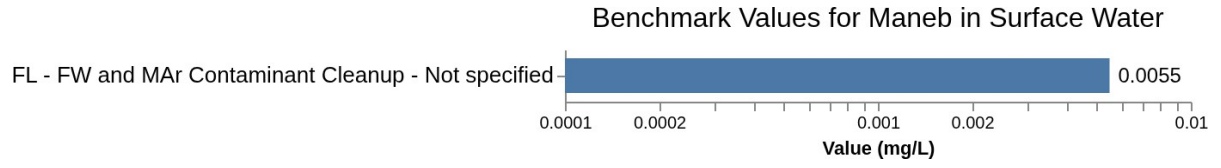


Table 340: Benchmark Values for Manganese (Diet) in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
7439-96-5	Canada	Water Irrigation	Not specified	0.200	
7439-96-5	Florida	SWQS for Shellfish Propagation or Harvesting	Not specified	0.100	
7439-96-5	LANL ECORISK	Surface Water No Effect ESL	Aquatic community organisms	1.300	
7439-96-5	LANL ECORISK	Surface Water Low Effect ESL	Aquatic community organisms	2.300	
7439-96-5	LANL ECORISK	Surface Water No Effect ESL	Montane shrew	190.000	
7439-96-5	LANL ECORISK	Surface Water No Effect ESL	Deer mouse	230.000	
7439-96-5	LANL ECORISK	Surface Water No Effect ESL	Occult little brown myotis bat	270.000	
7439-96-5	LANL ECORISK	Surface Water No Effect ESL	Mountain cottontail	450.000	
7439-96-5	LANL ECORISK	Surface Water No Effect ESL	Gray fox	510.000	
7439-96-5	LANL ECORISK	Surface Water Low Effect ESL	Montane shrew	700.000	
7439-96-5	LANL ECORISK	Surface Water Low Effect ESL	Deer mouse	830.000	
7439-96-5	LANL ECORISK	Surface Water Low Effect ESL	Occult little brown myotis bat	990.000	
7439-96-5	LANL ECORISK	Surface Water Low Effect ESL	Mountain cottontail	1600.000	
7439-96-5	LANL ECORISK	Surface Water Low Effect ESL	Gray fox	1800.000	
7439-96-5	LANL ECORISK	Surface Water No Effect ESL	Violet-green swallow	2400.000	
7439-96-5	LANL ECORISK	Surface Water No Effect ESL	American robin	4100.000	
7439-96-5	LANL ECORISK	Surface Water No Effect ESL	American kestrel	4800.000	
7439-96-5	LANL ECORISK	Surface Water Low Effect ESL	Violet-green swallow	24000.000	
7439-96-5	LANL ECORISK	Surface Water Low Effect ESL	American robin	41000.000	
7439-96-5	LANL ECORISK	Surface Water Low Effect ESL	American kestrel	48000.000	
7439-96-5	ORNL	EC25 Bass Population	Not specified	0.112	
7439-96-5	ORNL	Tier II Secondary Chronic Value	Not specified	0.120	
7439-96-5	ORNL	SW Lowest Chronic Value – Daphnids	Not specified	1.100	23
7439-96-5	ORNL	SW Lowest Chronic Value – All Organisms	Not specified	1.100	23
7439-96-5	ORNL	EC20 Daphnids	Not specified	1.100	23
7439-96-5	ORNL	EC20 Fish	Not specified	1.270	
7439-96-5	ORNL	SW Lowest Chronic Value – Fish	Not specified	1.780	
7439-96-5	ORNL	Tier II Secondary Acute Value	Not specified	2.300	

Benchmark Values for Manganese (Diet) in Surface Water

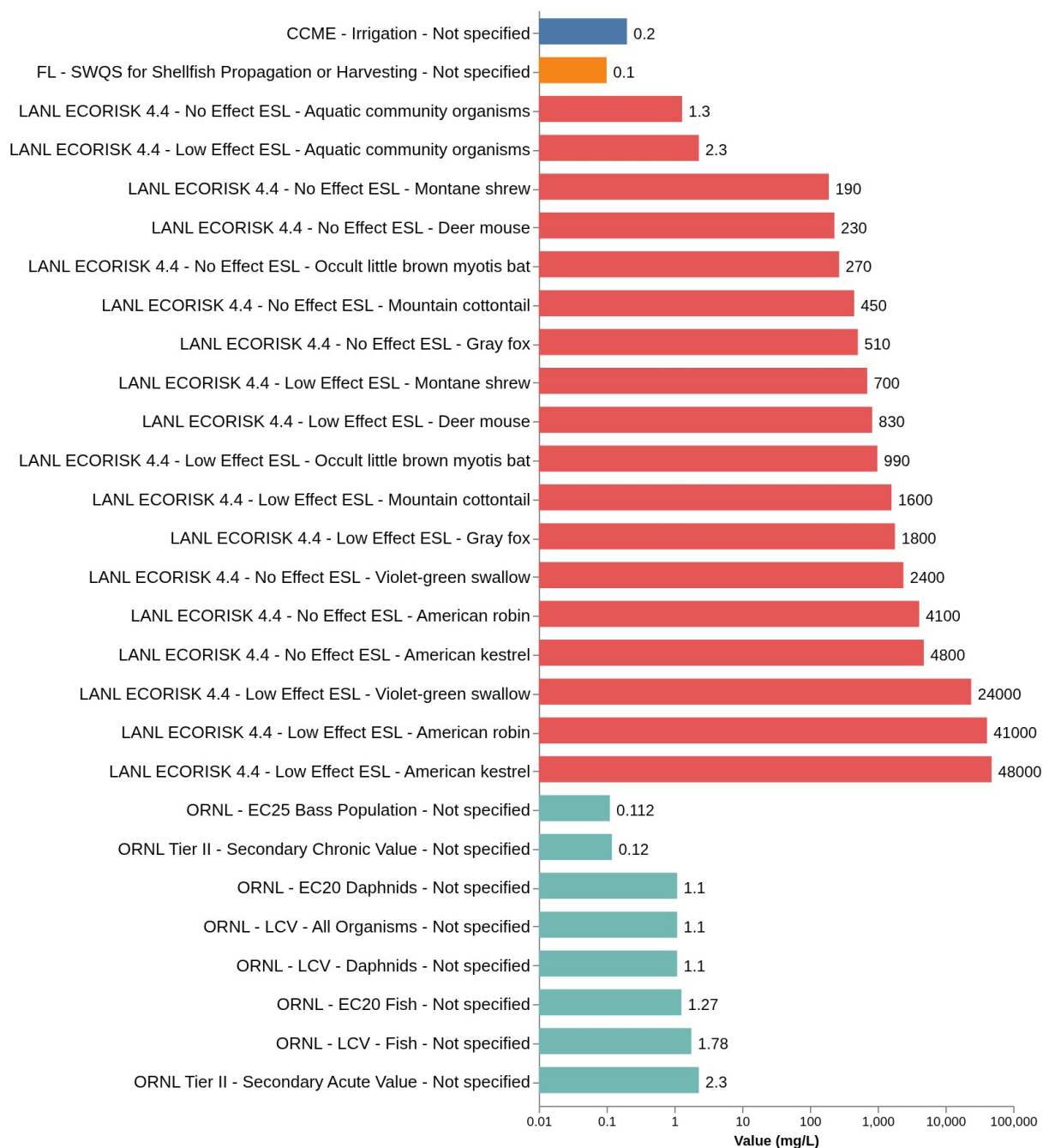


Table 341: Benchmark Values for Mercuric Chloride in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
7487-94-7	Florida	Freshwater and Marine Water Contaminant Cleanup	Not specified	0.00005

Benchmark Values for Mercuric Chloride in Surface Water

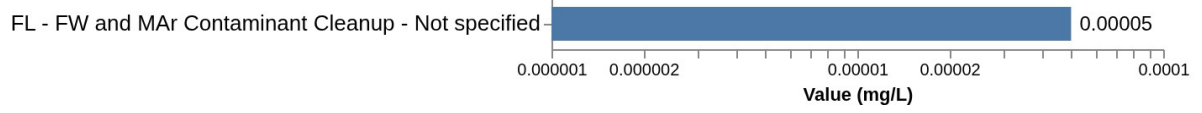


Table 342: Benchmark Values for Mercury (elemental) in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
7439-97-6	British Columbia	Irrigation STA	Not specified	0.002000	
7439-97-6	British Columbia	Livestock STA	Not specified	0.003000	
7439-97-6	Canada	Water Livestock	Not specified	0.003000	
7439-97-6	EPA Region 5	EPA RCRA Surface Water	Not specified	0.000001	
7439-97-6	Florida	SWQS for Shellfish Propagation or Harvesting	Not specified	0.000025	
7439-97-6	LANL ECORISK	Surface Water No Effect ESL	Aquatic community organisms	0.000770	
7439-97-6	LANL ECORISK	Surface Water Low Effect ESL	Aquatic community organisms	0.001400	
7439-97-6	LANL ECORISK	Surface Water No Effect ESL	Violet-green swallow	0.078000	
7439-97-6	LANL ECORISK	Surface Water No Effect ESL	American robin	0.130000	
7439-97-6	LANL ECORISK	Surface Water No Effect ESL	American kestrel	0.150000	
7439-97-6	LANL ECORISK	Surface Water Low Effect ESL	Violet-green swallow	0.780000	
7439-97-6	LANL ECORISK	Surface Water Low Effect ESL	American robin	1.300000	
7439-97-6	LANL ECORISK	Surface Water Low Effect ESL	American kestrel	1.500000	
7439-97-6	LANL ECORISK	Surface Water No Effect ESL	Montane shrew	6.300000	
7439-97-6	LANL ECORISK	Surface Water No Effect ESL	Deer mouse	7.400000	
7439-97-6	LANL ECORISK	Surface Water No Effect ESL	Occult little brown myotis bat	8.800000	
7439-97-6	LANL ECORISK	Surface Water No Effect ESL	Mountain cottontail	14.000000	
7439-97-6	LANL ECORISK	Surface Water No Effect ESL	Gray fox	16.000000	
7439-97-6	LANL ECORISK	Surface Water Low Effect ESL	Montane shrew	63.000000	
7439-97-6	LANL ECORISK	Surface Water Low Effect ESL	Deer mouse	74.000000	
7439-97-6	LANL ECORISK	Surface Water Low Effect ESL	Occult little brown myotis bat	88.000000	
7439-97-6	LANL ECORISK	Surface Water Low Effect ESL	Mountain cottontail	140.000000	
7439-97-6	LANL ECORISK	Surface Water Low Effect ESL	Gray fox	160.000000	
7439-97-6	ORNL	EC20 Sensitive Species	Not specified	0.000180	
7439-97-6	ORNL	SW Lowest Chronic Value – All Organisms	Not specified	0.000230	23
7439-97-6	ORNL	SW Lowest Chronic Value – Fish	Not specified	0.000230	23
7439-97-6	ORNL	EC25 Bass Population	Not specified	0.000320	
7439-97-6	ORNL	EC20 Daphnids	Not specified	0.000870	
7439-97-6	ORNL	EC20 Fish	Not specified	0.000870	
7439-97-6	ORNL	SW Lowest Chronic Value – Daphnids	Not specified	0.000960	
7439-97-6	ORNL	Tier II Secondary Chronic Value	Not specified	0.001300	26
7439-97-6	ORNL	SW Lowest Chronic Value – Aquatic Plants	Not specified	0.005000	
7439-97-6	Ohio	OMZA Lake Erie Drainage Basin	Not specified	0.000770	170, 191
7439-97-6	Ohio	OMZM	Not specified	0.001400	168, 191
7439-97-6	Ohio	IMZM	Not specified	0.002900	166, 190

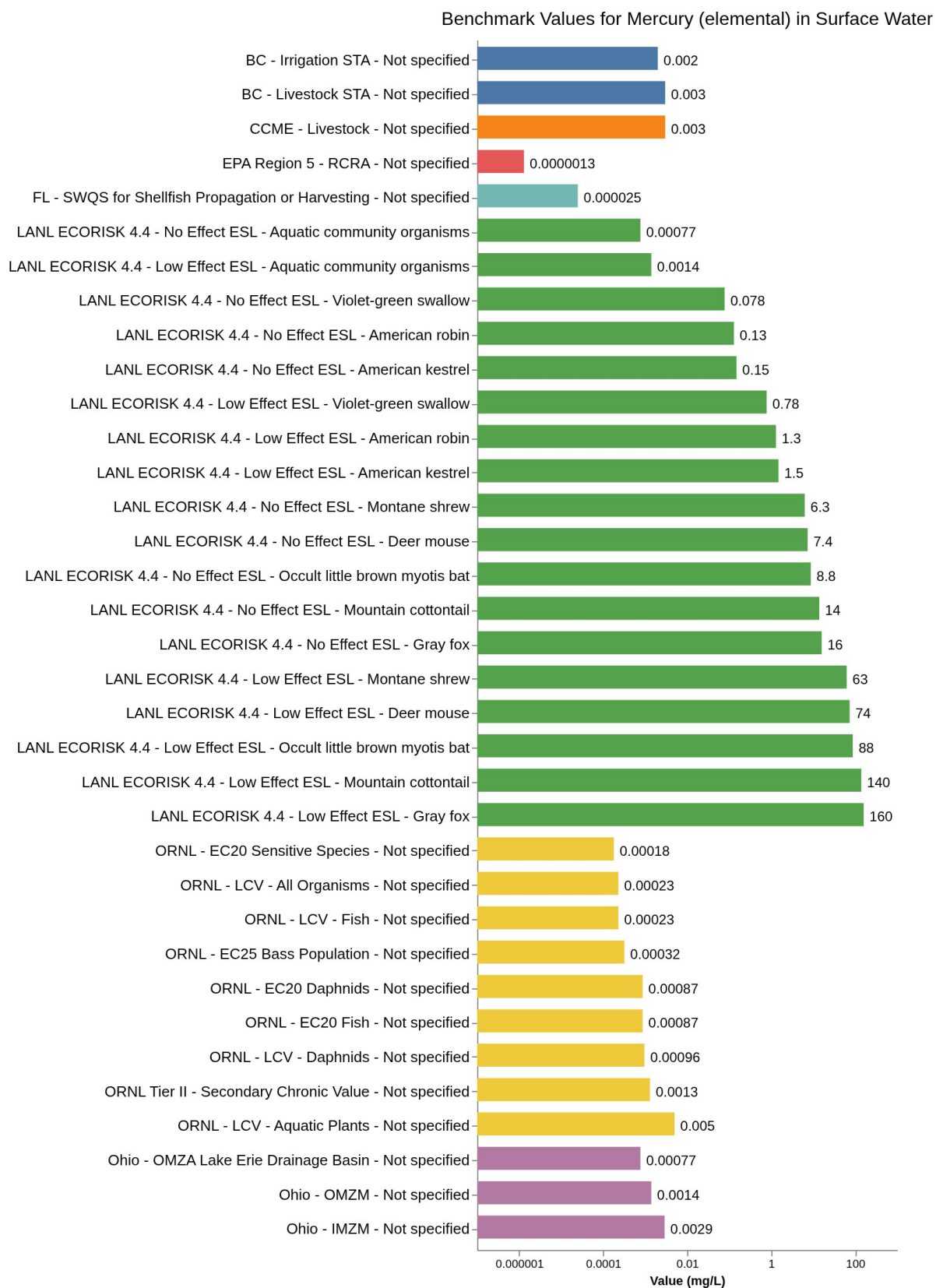


Table 343: Benchmark Values for Metalaxyl in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
57837-19-1	Florida	Freshwater and Marine Water Contaminant Cleanup	Not specified	0.037

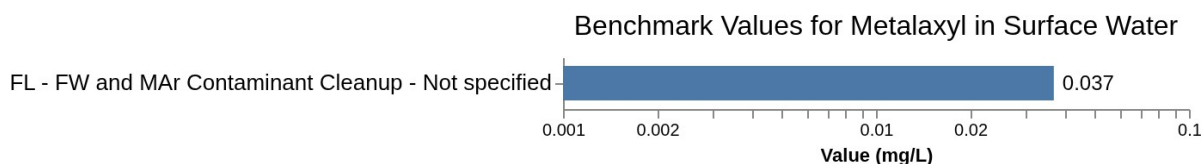


Table 344: Benchmark Values for Methamidophos in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
10265-92-6	Florida	Freshwater and Marine Water Contaminant Cleanup	Not specified	1.000000e-08

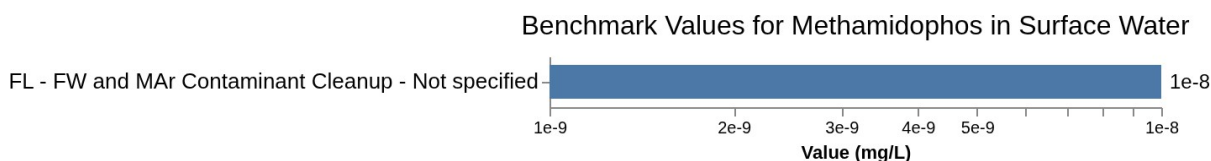


Table 345: Benchmark Values for Methanol in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
67-56-1	EPA Region 4	Freshwater and Saltwater Chronic Narcotic MOA	Not specified	112.652
67-56-1	EPA Region 4	Freshwater and Saltwater Acute, Narcotic MOA	Not specified	369.551
67-56-1	Florida	Freshwater and Marine Water Contaminant Cleanup	Not specified	45.000
67-56-1	Illinois	Chronic - General Use	Not specified	440.000
67-56-1	Illinois	Acute - General Use	Not specified	5500.000

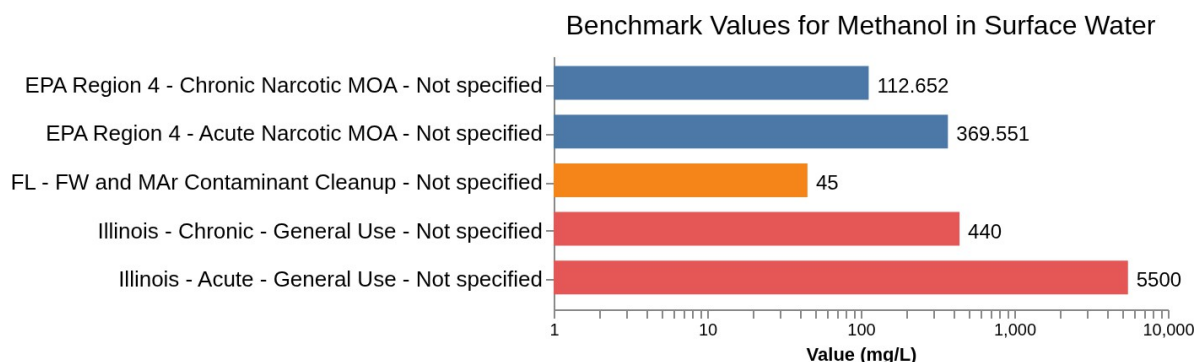


Table 346: Benchmark Values for Methidathion in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
950-37-8	Florida	Freshwater and Marine Water Contaminant Cleanup	Not specified	0.00003

Benchmark Values for Methidathion in Surface Water

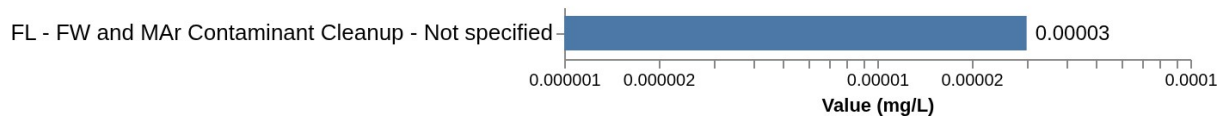


Table 347: Benchmark Values for Methomyl in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
16752-77-5	Florida	Freshwater and Marine Water Contaminant Cleanup	Not specified	0.001

Benchmark Values for Methomyl in Surface Water

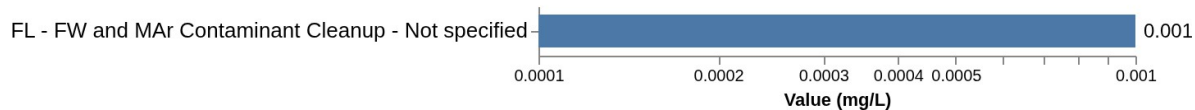


Table 348: Benchmark Values for Methoxychlor in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
72-43-5	EPA Region 5	EPA RCRA Surface Water	Not specified	0.000019	
72-43-5	Florida	SWQS for Shellfish Propagation or Harvesting	Not specified	0.000030	
72-43-5	Illinois	Chronic – General Use	Not specified	0.000020	195
72-43-5	Illinois	Acute – General Use	Not specified	0.000250	195
72-43-5	LANL ECORISK	Surface Water No Effect ESL	Aquatic community organisms	0.000030	
72-43-5	LANL ECORISK	Surface Water Low Effect ESL	Aquatic community organisms	0.000300	
72-43-5	LANL ECORISK	Surface Water No Effect ESL	Montane shrew	17.000000	
72-43-5	LANL ECORISK	Surface Water No Effect ESL	Deer mouse	21.000000	
72-43-5	LANL ECORISK	Surface Water No Effect ESL	Occult little brown myotis bat	25.000000	
72-43-5	LANL ECORISK	Surface Water Low Effect ESL	Montane shrew	35.000000	
72-43-5	LANL ECORISK	Surface Water No Effect ESL	Mountain cottontail	41.000000	
72-43-5	LANL ECORISK	Surface Water Low Effect ESL	Deer mouse	42.000000	
72-43-5	LANL ECORISK	Surface Water No Effect ESL	Gray fox	46.000000	
72-43-5	LANL ECORISK	Surface Water Low Effect ESL	Occult little brown myotis bat	50.000000	
72-43-5	LANL ECORISK	Surface Water Low Effect ESL	Mountain cottontail	82.000000	
72-43-5	LANL ECORISK	Surface Water Low Effect ESL	Gray fox	93.000000	
72-43-5	LANL ECORISK	Surface Water No Effect ESL	Violet-green swallow	100.000000	
72-43-5	LANL ECORISK	Surface Water No Effect ESL	American robin	180.000000	
72-43-5	LANL ECORISK	Surface Water No Effect ESL	American kestrel	210.000000	
72-43-5	LANL ECORISK	Surface Water Low Effect ESL	Violet-green swallow	1000.000000	
72-43-5	LANL ECORISK	Surface Water Low Effect ESL	American robin	1800.000000	
72-43-5	LANL ECORISK	Surface Water Low Effect ESL	American kestrel	2100.000000	
72-43-5	ORNL	Tier II Secondary Chronic Value	Not specified	0.000019	

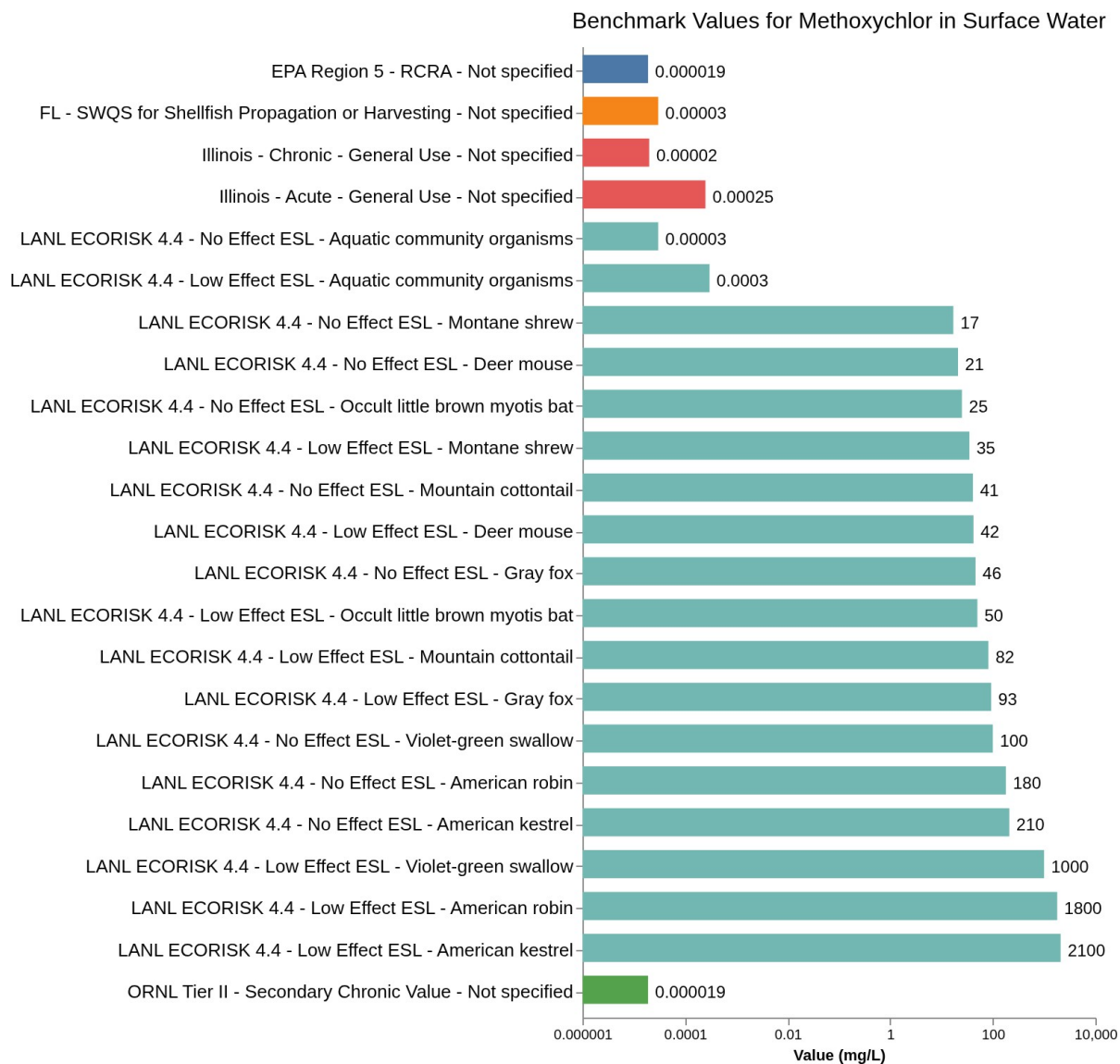


Table 349: Benchmark Values for Methoxyethanol, 2- in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
109-86-4	Illinois	Chronic – General Use	Not specified	60.0	195
109-86-4	Illinois	Acute – General Use	Not specified	800.0	195

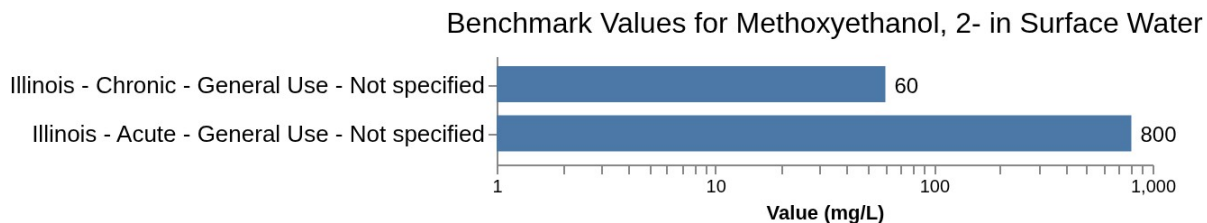


Table 350: Benchmark Values for Methyl Acrylate in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
96-33-3	Illinois	Chronic – General Use	Not specified	0.05	195
96-33-3	Illinois	Acute – General Use	Not specified	0.50	195

Benchmark Values for Methyl Acrylate in Surface Water

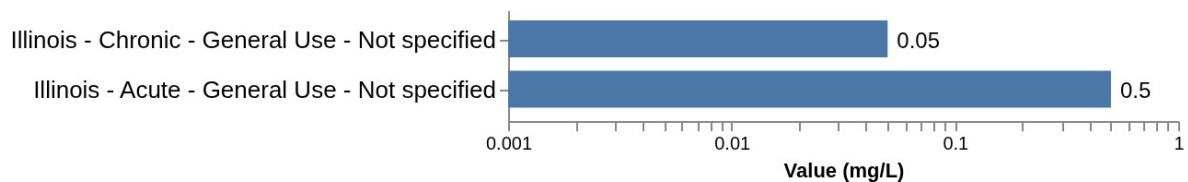


Table 351: Benchmark Values for Methyl Ethyl Ketone (2-Butanone) in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
78-93-3	EPA Region 4	Freshwater and Saltwater Chronic Narcotic MOA	Not specified	65.695	
78-93-3	EPA Region 4	Freshwater and Saltwater Acute, Narcotic MOA	Not specified	201.828	
78-93-3	EPA Region 5	EPA RCRA Surface Water	Not specified	2.200	
78-93-3	Florida	Freshwater and Marine Water Contaminant Cleanup	Not specified	120.000	
78-93-3	Illinois	Chronic – General Use	Not specified	26.000	
78-93-3	Illinois	Acute – General Use	Not specified	320.000	
78-93-3	LANL ECORISK	Surface Water No Effect ESL	Aquatic community organisms	7.200	
78-93-3	LANL ECORISK	Surface Water Low Effect ESL	Aquatic community organisms	71.000	
78-93-3	LANL ECORISK	Surface Water No Effect ESL	Montane shrew	7900.000	
78-93-3	LANL ECORISK	Surface Water No Effect ESL	Deer mouse	9300.000	
78-93-3	LANL ECORISK	Surface Water No Effect ESL	Occult little brown myotis bat	11000.000	
78-93-3	LANL ECORISK	Surface Water No Effect ESL	Mountain cottontail	18000.000	
78-93-3	LANL ECORISK	Surface Water Low Effect ESL	Montane shrew	20000.000	
78-93-3	LANL ECORISK	Surface Water No Effect ESL	Gray fox	20000.000	
78-93-3	LANL ECORISK	Surface Water Low Effect ESL	Deer mouse	24000.000	
78-93-3	LANL ECORISK	Surface Water Low Effect ESL	Occult little brown myotis bat	28000.000	
78-93-3	LANL ECORISK	Surface Water Low Effect ESL	Mountain cottontail	47000.000	
78-93-3	LANL ECORISK	Surface Water Low Effect ESL	Gray fox	53000.000	
78-93-3	ORNL	Tier II Secondary Chronic Value	Not specified	14.000	
78-93-3	ORNL	EC25 Bass Population	Not specified	17.800	
78-93-3	ORNL	EC20 Fish	Not specified	98.800	29
78-93-3	ORNL	Tier II Secondary Acute Value	Not specified	240.000	
78-93-3	ORNL	SW Lowest Chronic Value – Fish	Not specified	282.000	24
78-93-3	ORNL	SW Lowest Chronic Value – All Organisms	Not specified	282.170	24
78-93-3	ORNL	SW Lowest Chronic Value – Daphnids	Not specified	1390.000	24

Benchmark Values for Methyl Ethyl Ketone (2-Butanone) in Surface Water

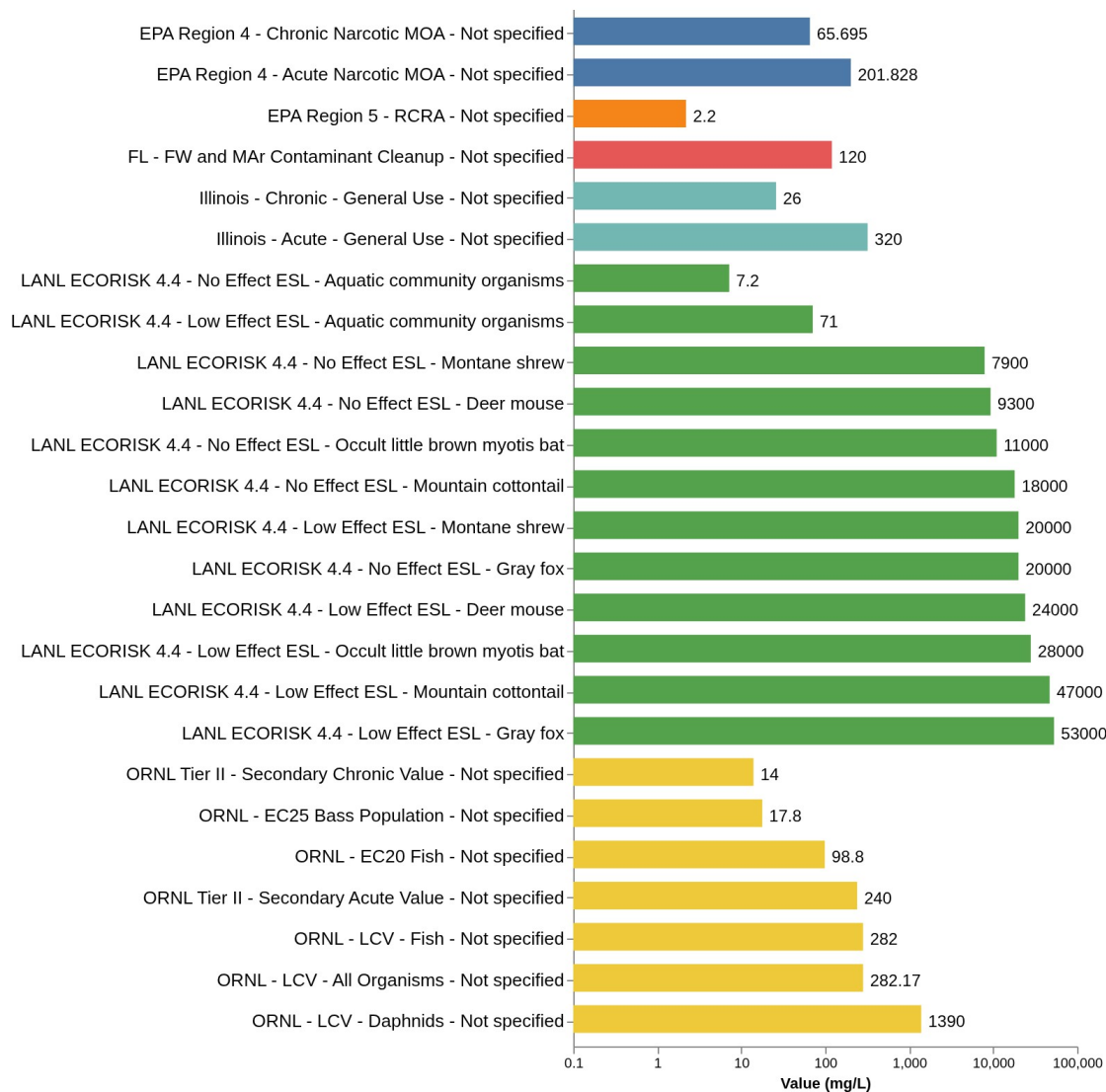


Table 352: Benchmark Values for Methyl Isobutyl Ketone (4-methyl-2-pentanone) in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
108-10-1	EPA Region 4	Freshwater and Saltwater Chronic Narcotic MOA	Not specified	19.142
108-10-1	EPA Region 4	Freshwater and Saltwater Acute, Narcotic MOA	Not specified	65.872
108-10-1	EPA Region 5	EPA RCRA Surface Water	Not specified	0.170
108-10-1	Florida	Freshwater and Marine Water Contaminant Cleanup	Not specified	23.000
108-10-1	Illinois	Chronic – General Use	Not specified	1.400
108-10-1	Illinois	Acute – General Use	Not specified	46.000
108-10-1	ORNL	Tier II Secondary Chronic Value	Not specified	0.170
108-10-1	ORNL	EC25 Bass Population	Not specified	1.590
108-10-1	ORNL	Tier II Secondary Acute Value	Not specified	2.200
108-10-1	ORNL	SW Lowest Chronic Value – Fish	Not specified	77.400
108-10-1	ORNL	SW Lowest Chronic Value – All Organisms	Not specified	77.400

Benchmark Values for Methyl Isobutyl Ketone (4-methyl-2-pentanone) in Surface Water

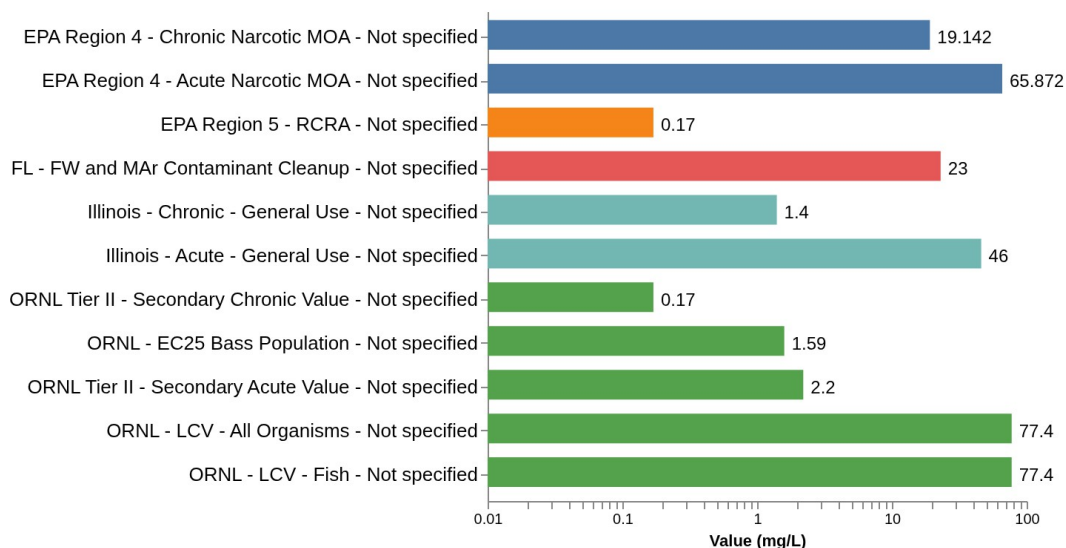


Table 353: Benchmark Values for Methyl Mercury in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
22967-92-6	EPA Region 5	EPA RCRA Surface Water	Not specified	0.000002	
22967-92-6	LANL ECORISK	Surface Water No Effect ESL	Aquatic community organisms	0.000003	
22967-92-6	LANL ECORISK	Surface Water Low Effect ESL	Aquatic community organisms	0.000028	
22967-92-6	LANL ECORISK	Surface Water No Effect ESL	Violet-green swallow	0.026000	
22967-92-6	LANL ECORISK	Surface Water No Effect ESL	American robin	0.045000	
22967-92-6	LANL ECORISK	Surface Water No Effect ESL	American kestrel	0.053000	
22967-92-6	LANL ECORISK	Surface Water No Effect ESL	Montane shrew	0.140000	
22967-92-6	LANL ECORISK	Surface Water No Effect ESL	Deer mouse	0.160000	
22967-92-6	LANL ECORISK	Surface Water No Effect ESL	Occult little brown myotis bat	0.200000	
22967-92-6	LANL ECORISK	Surface Water Low Effect ESL	Violet-green swallow	0.260000	
22967-92-6	LANL ECORISK	Surface Water No Effect ESL	Mountain cottontail	0.320000	
22967-92-6	LANL ECORISK	Surface Water No Effect ESL	Gray fox	0.370000	
22967-92-6	LANL ECORISK	Surface Water Low Effect ESL	American robin	0.450000	
22967-92-6	LANL ECORISK	Surface Water Low Effect ESL	American kestrel	0.530000	
22967-92-6	LANL ECORISK	Surface Water Low Effect ESL	Montane shrew	0.710000	
22967-92-6	LANL ECORISK	Surface Water Low Effect ESL	Deer mouse	0.840000	
22967-92-6	LANL ECORISK	Surface Water Low Effect ESL	Occult little brown myotis bat	1.000000	
22967-92-6	LANL ECORISK	Surface Water Low Effect ESL	Mountain cottontail	1.600000	
22967-92-6	LANL ECORISK	Surface Water Low Effect ESL	Gray fox	1.800000	
22967-92-6	ORNL	Tier II Secondary Chronic Value	Not specified	0.000003	
22967-92-6	ORNL	EC20 Fish	Not specified	0.000030	23
22967-92-6	ORNL	SW Lowest Chronic Value – Daphnids	Not specified	0.000040	23
22967-92-6	ORNL	SW Lowest Chronic Value – All Organisms	Not specified	0.000040	23
22967-92-6	ORNL	Tier II Secondary Acute Value	Not specified	0.000099	
22967-92-6	ORNL	EC25 Bass Population	Not specified	0.000280	
22967-92-6	ORNL	SW Lowest Chronic Value – Fish	Not specified	0.000520	
22967-92-6	ORNL	SW Lowest Chronic Value – Aquatic Plants	Not specified	0.000800	25
22967-92-6	ORNL	EC20 Daphnids	Not specified	0.000870	

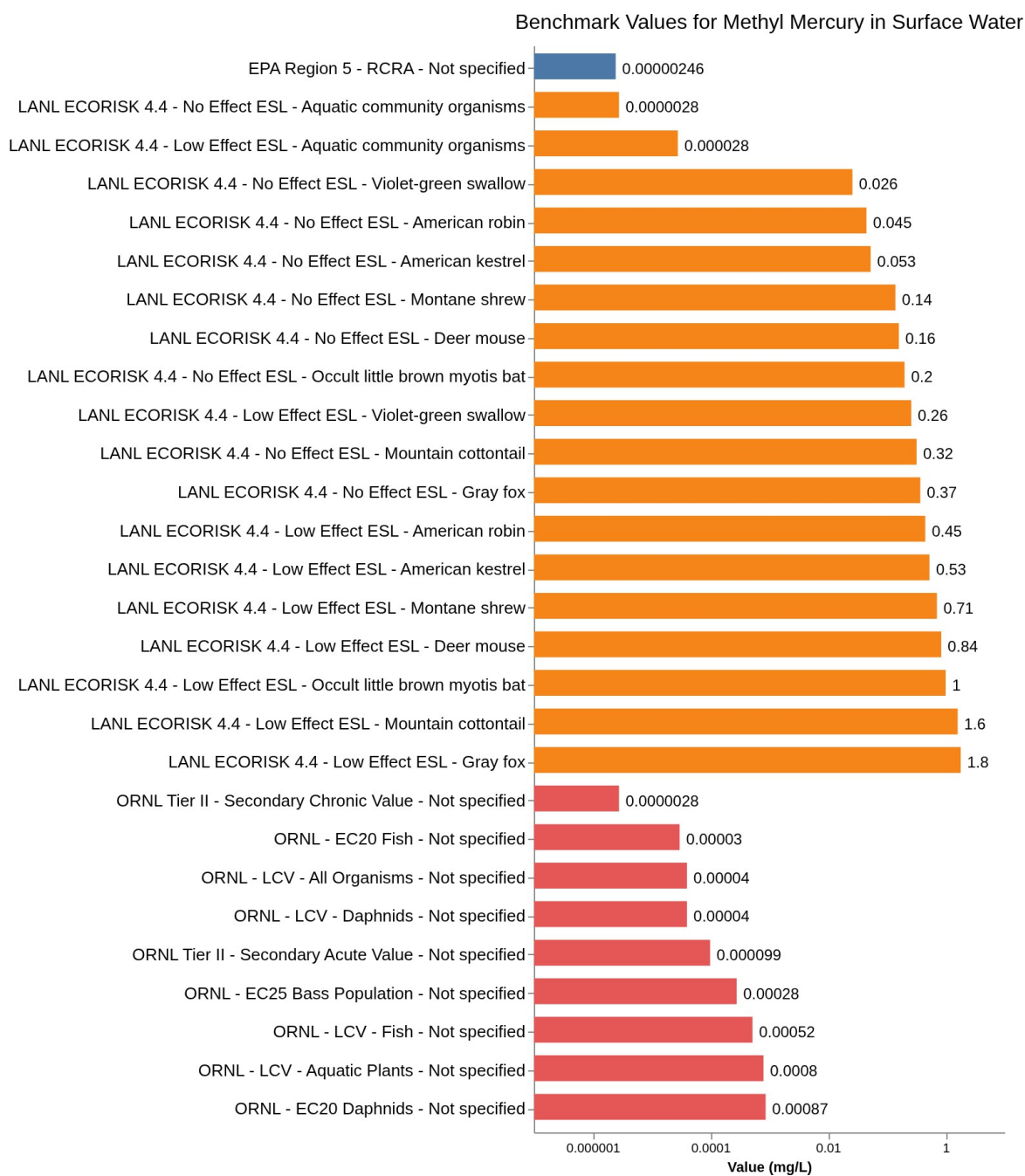


Table 354: Benchmark Values for Methyl Methacrylate in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
80-62-6	EPA Region 5	EPA RCRA Surface Water	Not specified	2.8
80-62-6	Florida	Freshwater and Marine Water Contaminant Cleanup	Not specified	6.5
80-62-6	Illinois	Chronic – General Use	Not specified	1.5
80-62-6	Illinois	Acute – General Use	Not specified	19.0

Benchmark Values for Methyl Methacrylate in Surface Water

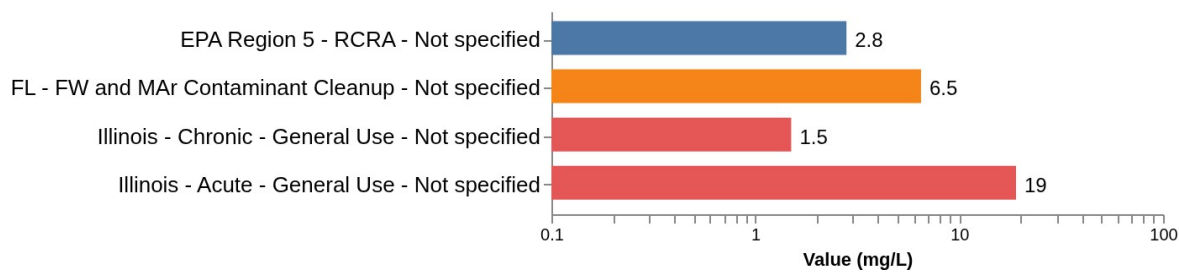


Table 355: Benchmark Values for Methyl Parathion in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
298-00-0	Florida	Freshwater and Marine Water Contaminant Cleanup	Not specified	0.00001

Benchmark Values for Methyl Parathion in Surface Water

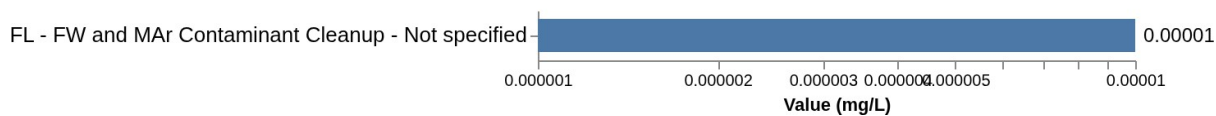


Table 356: Benchmark Values for Methyl tert-Butyl Ether (MTBE) in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
1634-04-4	British Columbia	Estuarine STA	Not specified	0.440	
1634-04-4	British Columbia	Livestock STA	Not specified	11.000	
1634-04-4	EPA Region 4	Freshwater and Saltwater Chronic Narcotic MOA	Not specified	30.618	
1634-04-4	EPA Region 4	Freshwater and Saltwater Acute, Narcotic MOA	Not specified	58.634	
1634-04-4	Florida	Freshwater and Marine Water Contaminant Cleanup	Not specified	34.000	
1634-04-4	Illinois	Chronic – General Use	Not specified	5.400	195
1634-04-4	Illinois	Acute – General Use	Not specified	67.000	195

Benchmark Values for Methyl tert-Butyl Ether (MTBE) in Surface Water

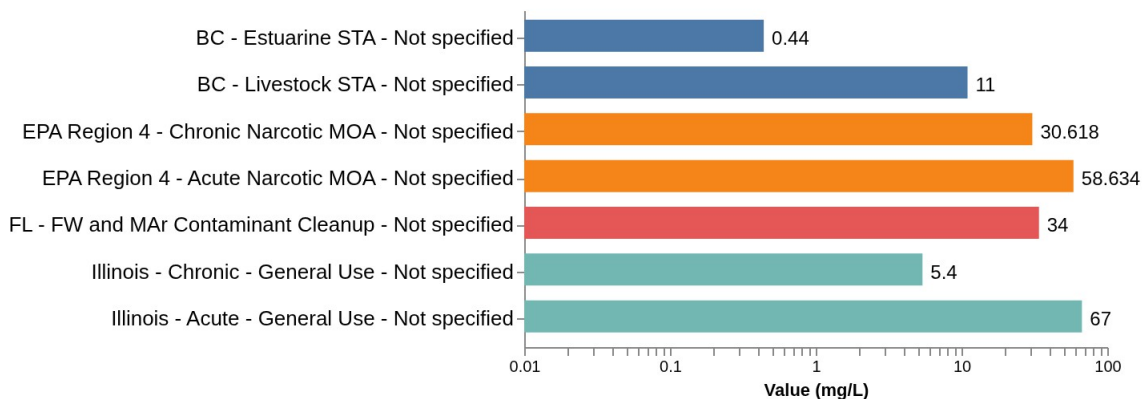


Table 357: Benchmark Values for Methyl-2-Pentanol, 4- in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
108-11-2	Illinois	Chronic – General Use	Not specified	0.9	195, 197
108-11-2	Illinois	Acute – General Use	Not specified	9.0	195, 197

Benchmark Values for Methyl-2-Pentanol, 4- in Surface Water

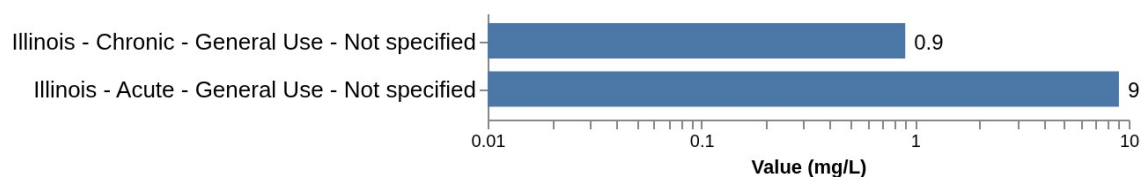
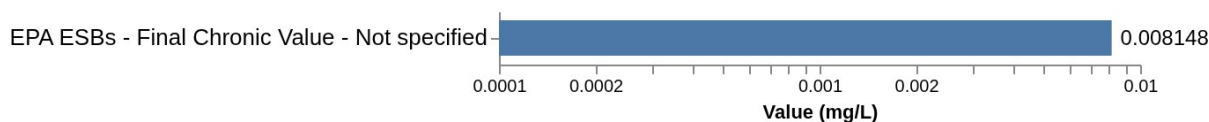
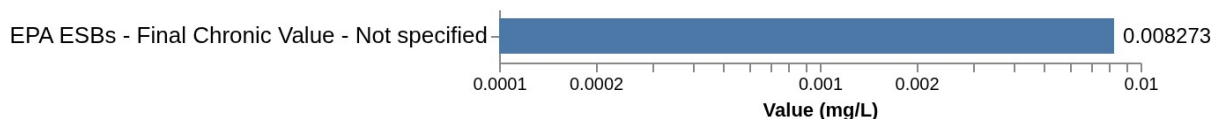


Table 358: Benchmark Values for Methylantracene, 1- in Surface Water

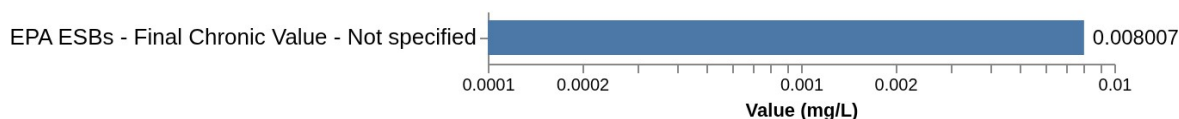
CAS	Source	Benchmark	Organism	Value (mg/L)
610-48-0	EPA ESBs	Final Chronic Value	Not specified	0.008148

Benchmark Values for Methylantracene, 1- in Surface Water**Table 359: Benchmark Values for Methylantracene, 2- in Surface Water**

CAS	Source	Benchmark	Organism	Value (mg/L)
613-12-7	EPA ESBs	Final Chronic Value	Not specified	0.008273

Benchmark Values for Methylantracene, 2- in Surface Water**Table 360: Benchmark Values for Methylantracene, 9- in Surface Water**

CAS	Source	Benchmark	Organism	Value (mg/L)
779-02-2	EPA ESBs	Final Chronic Value	Not specified	0.008007

Benchmark Values for Methylantracene, 9- in Surface Water**Table 361: Benchmark Values for Methylbenzo[a]pyrene, 7- in Surface Water**

CAS	Source	Benchmark	Organism	Value (mg/L)
63041-77-0	EPA ESBs	Final Chronic Value	Not specified	0.000396

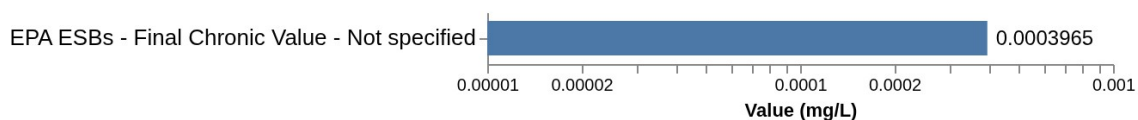
Benchmark Values for Methylbenzo[a]pyrene, 7- in Surface Water

Table 362: Benchmark Values for Methylcholanthrene, 3- in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
56-49-5	EPA Region 5	EPA RCRA Surface Water	Not specified	0.000089

Benchmark Values for Methylcholanthrene, 3- in Surface Water

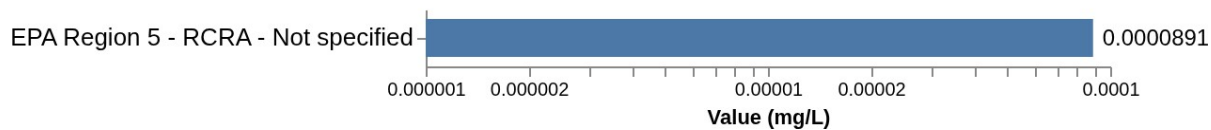


Table 363: Benchmark Values for Methylene bithiocyanate in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
6317-18-6	Illinois	Chronic – General Use	Not specified	0.003	195, 197
6317-18-6	Illinois	Acute – General Use	Not specified	0.007	195, 197

Benchmark Values for Methylene bithiocyanate in Surface Water

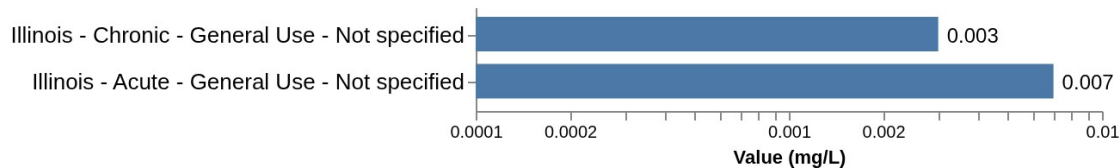


Table 364: Benchmark Values for Methylene Chloride in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
75-09-2	Canada	Water Livestock	Not specified	0.050	
75-09-2	EPA Region 4	Freshwater and Saltwater Chronic Narcotic MOA	Not specified	5.697	
75-09-2	EPA Region 4	Freshwater and Saltwater Acute, Narcotic MOA	Not specified	21.832	
75-09-2	EPA Region 5	EPA RCRA Surface Water	Not specified	0.940	
75-09-2	Florida	SWQS for Shellfish Propagation or Harvesting	Not specified	1.580	
75-09-2	Illinois	Chronic – General Use	Not specified	1.400	
75-09-2	Illinois	Acute – Lake Michigan	Not specified	10.800	
75-09-2	Illinois	Acute – General Use	Not specified	17.000	
75-09-2	LANL ECORISK	Surface Water No Effect ESL	Aquatic community organisms	0.210	
75-09-2	LANL ECORISK	Surface Water Low Effect ESL	Aquatic community organisms	2.100	
75-09-2	LANL ECORISK	Surface Water No Effect ESL	Montane shrew	26.000	
75-09-2	LANL ECORISK	Surface Water No Effect ESL	Deer mouse	30.000	
75-09-2	LANL ECORISK	Surface Water No Effect ESL	Occult little brown myotis bat	36.000	
75-09-2	LANL ECORISK	Surface Water No Effect ESL	Mountain cottontail	60.000	
75-09-2	LANL ECORISK	Surface Water No Effect ESL	Gray fox	68.000	
75-09-2	LANL ECORISK	Surface Water Low Effect ESL	Montane shrew	220.000	
75-09-2	LANL ECORISK	Surface Water Low Effect ESL	Deer mouse	260.000	
75-09-2	LANL ECORISK	Surface Water Low Effect ESL	Occult little brown myotis bat	310.000	
75-09-2	LANL ECORISK	Surface Water Low Effect ESL	Mountain cottontail	510.000	
75-09-2	LANL ECORISK	Surface Water Low Effect ESL	Gray fox	580.000	
75-09-2	ORNL	EC20 Fish	Not specified	0.410	
75-09-2	ORNL	EC25 Bass Population	Not specified	1.260	
75-09-2	ORNL	Tier II Secondary Chronic Value	Not specified	2.200	
75-09-2	ORNL	Tier II Secondary Acute Value	Not specified	26.000	
75-09-2	ORNL	SW Lowest Chronic Value – All Organisms	Not specified	42.667	24
75-09-2	ORNL	SW Lowest Chronic Value – Daphnids	Not specified	42.700	24
75-09-2	ORNL	SW Lowest Chronic Value – Fish	Not specified	108.000	

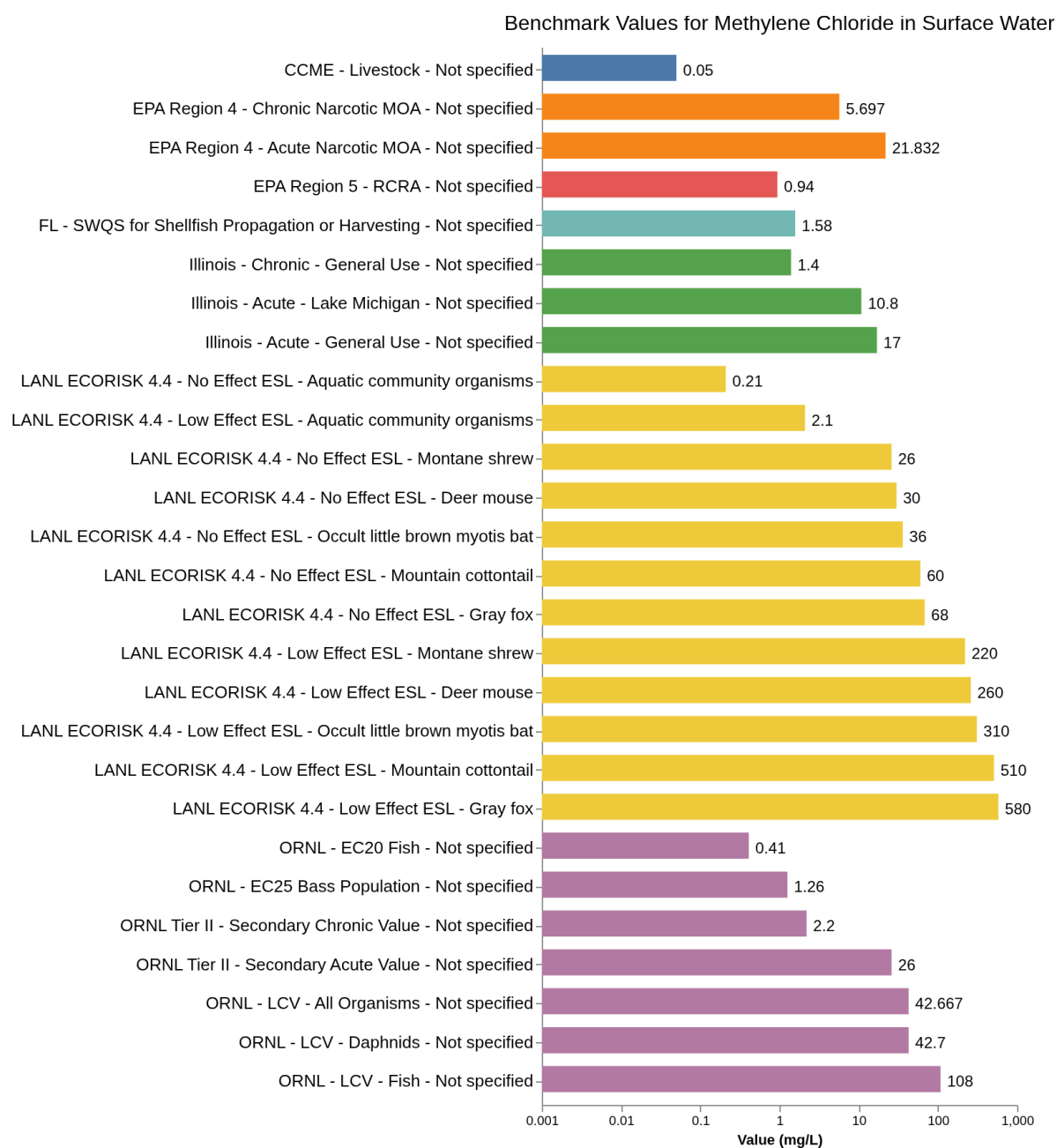


Table 365: Benchmark Values for Methylfluorene, 1– in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
1730–37–6	EPA ESBs	Final Chronic Value	Not specified	0.01342

Benchmark Values for Methylfluorene, 1- in Surface Water



Table 366: Benchmark Values for Methylnaphthalene, 1– in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
90–12–0	EPA ESBs	Final Chronic Value	Not specified	0.07537	
90–12–0	EPA Region 4	Freshwater and Saltwater Chronic for PAHs	Not specified	0.07500	
90–12–0	EPA Region 4	Freshwater and Saltwater Acute for PAHs	Not specified	0.15700	
90–12–0	Florida	Freshwater and Marine Water Contaminant Cleanup	Not specified	0.09500	
90–12–0	ORNL	Tier II Secondary Chronic Value	Not specified	0.00210	
90–12–0	ORNL	EC25 Bass Population	Not specified	0.03160	
90–12–0	ORNL	Tier II Secondary Acute Value	Not specified	0.03700	
90–12–0	ORNL	EC20 Fish	Not specified	0.50000	29
90–12–0	ORNL	SW Lowest Chronic Value – All Organisms	Not specified	0.52600	24
90–12–0	ORNL	SW Lowest Chronic Value – Fish	Not specified	0.52600	24

Benchmark Values for Methylnaphthalene, 1- in Surface Water

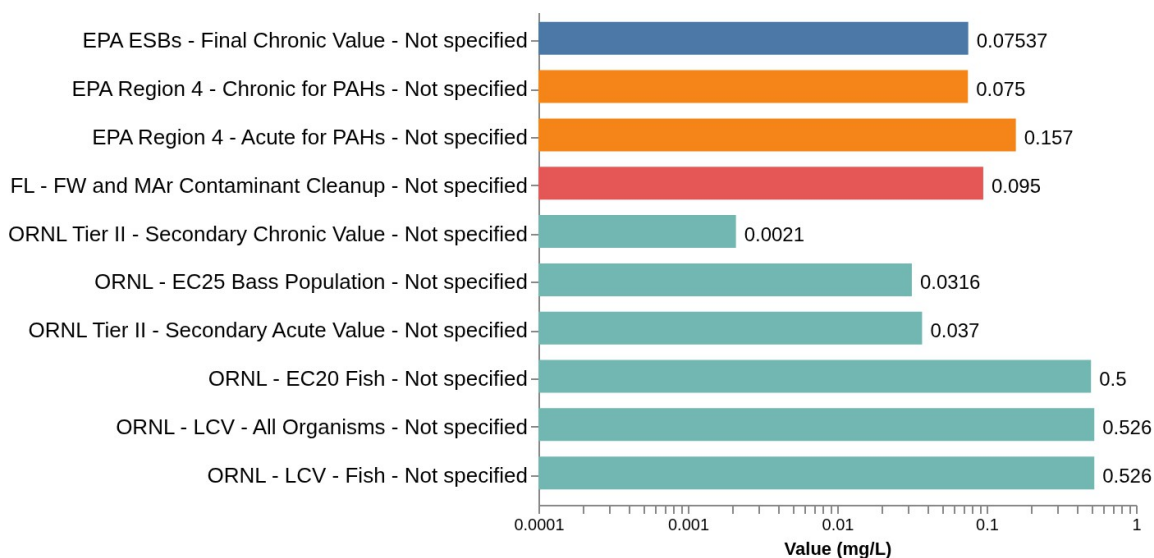


Table 367: Benchmark Values for Methylnaphthalene, 2– in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
91–57–6	EPA ESBs	Final Chronic Value	Not specified	0.07216	
91–57–6	EPA Region 4	Freshwater and Saltwater Chronic for PAHs	Not specified	0.07200	
91–57–6	EPA Region 4	Freshwater and Saltwater Acute for PAHs	Not specified	0.15000	
91–57–6	EPA Region 5	EPA RCRA Surface Water	Not specified	0.33000	
91–57–6	Florida	Freshwater and Marine Water Contaminant Cleanup	Not specified	0.03000	
91–57–6	LANL ECORISK	Surface Water No Effect ESL	Aquatic community organisms	0.33000	
91–57–6	LANL ECORISK	Surface Water Low Effect ESL	Aquatic community organisms	3.30000	
91–57–6	LANL ECORISK	Surface Water No Effect ESL	Montane shrew	71.00000	
91–57–6	LANL ECORISK	Surface Water No Effect ESL	Deer mouse	84.00000	
91–57–6	LANL ECORISK	Surface Water No Effect ESL	Occult little brown myotis bat	100.00000	
91–57–6	LANL ECORISK	Surface Water No Effect ESL	Mountain cottontail	160.00000	
91–57–6	LANL ECORISK	Surface Water No Effect ESL	Gray fox	180.00000	
91–57–6	LANL ECORISK	Surface Water Low Effect ESL	Montane shrew	710.00000	
91–57–6	LANL ECORISK	Surface Water Low Effect ESL	Deer mouse	840.00000	
91–57–6	LANL ECORISK	Surface Water Low Effect ESL	Occult little brown myotis bat	1000.00000	
91–57–6	LANL ECORISK	Surface Water Low Effect ESL	Mountain cottontail	1600.00000	
91–57–6	LANL ECORISK	Surface Water Low Effect ESL	Gray fox	1800.00000	
91–57–6	ORNL	SW Lowest Chronic Value – All Organisms	Not specified	0.48900	24

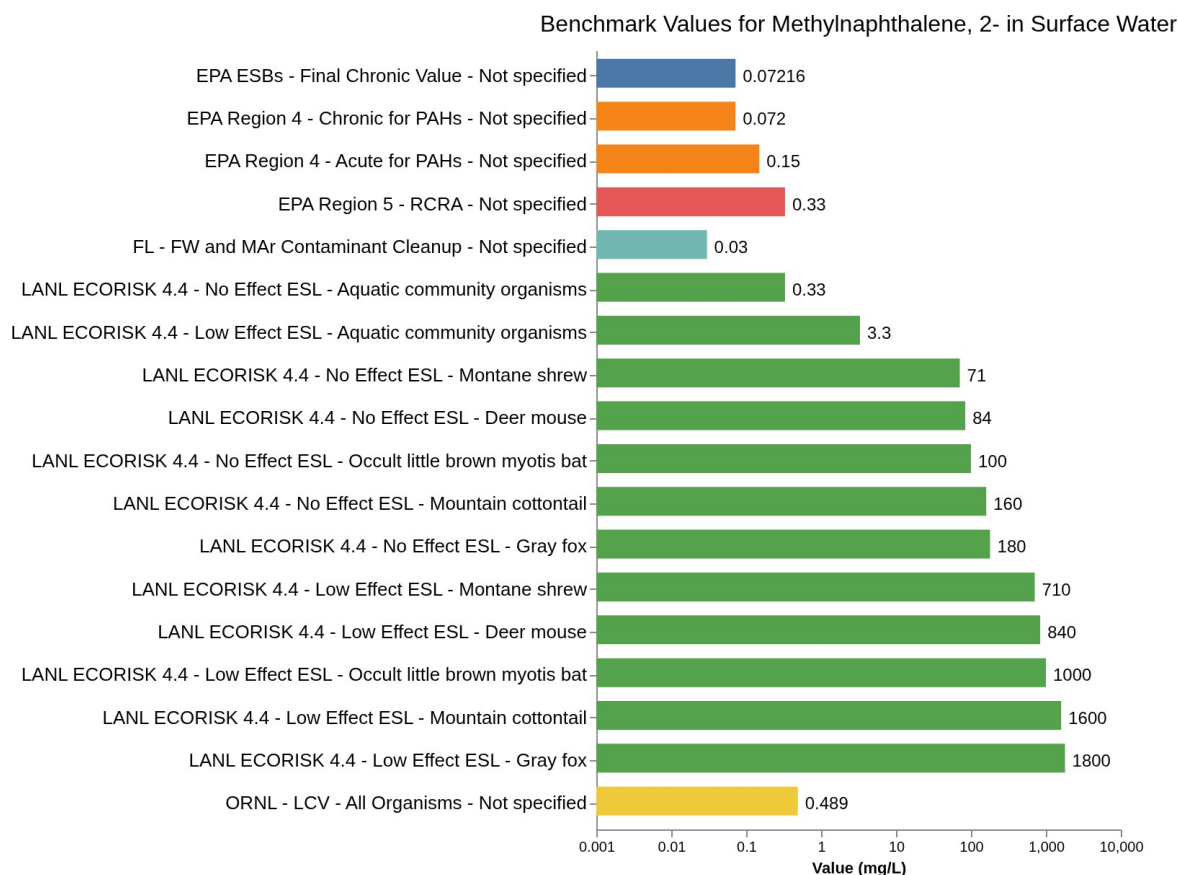


Table 368: Benchmark Values for Methylanththalene in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
1321-94-4	Illinois	Chronic – General Use	Not specified	0.012
1321-94-4	Illinois	Acute – General Use	Not specified	0.150

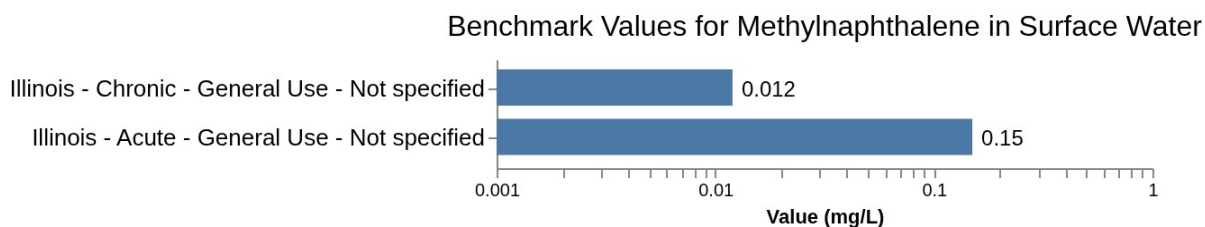


Table 369: Benchmark Values for Methylphenanthrene, 1– in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
832–69–9	EPA ESBs	Final Chronic Value	Not specified	0.007485
832–69–9	EPA Region 4	Freshwater and Saltwater Acute for PAHs	Not specified	0.000000
832–69–9	EPA Region 4	Freshwater and Saltwater Chronic for PAHs	Not specified	0.007490

Benchmark Values for Methylphenanthrene, 1- in Surface Water

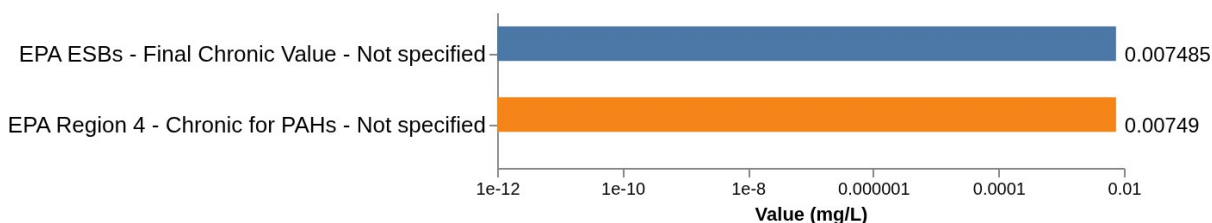


Table 370: Benchmark Values for Methylphenanthrene, 2– in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
2531–84–2	EPA ESBs	Final Chronic Value	Not specified	0.007616

Benchmark Values for Methylphenanthrene, 2- in Surface Water

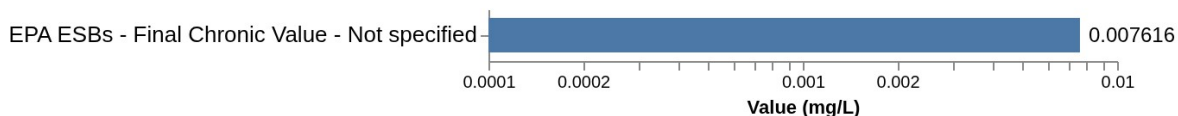


Table 371: Benchmark Values for Methylpyrrolidone, N– in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
872–50–4	Illinois	Chronic – General Use	Not specified	54.0	195
872–50–4	Illinois	Acute – General Use	Not specified	680.0	195

Benchmark Values for Methylpyrrolidone, N- in Surface Water

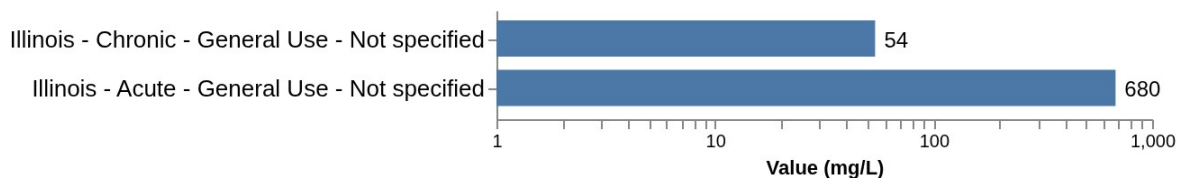


Table 372: Benchmark Values for Metolachlor in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
51218-45-2	Canada	Water Irrigation	Not specified	0.0280
51218-45-2	Canada	Water Livestock	Not specified	0.0500
51218-45-2	Florida	Freshwater and Marine Water Contaminant Cleanup	Not specified	0.0011
51218-45-2	Illinois	Chronic – General Use	Not specified	0.0304
51218-45-2	Illinois	Acute – General Use	Not specified	0.3800

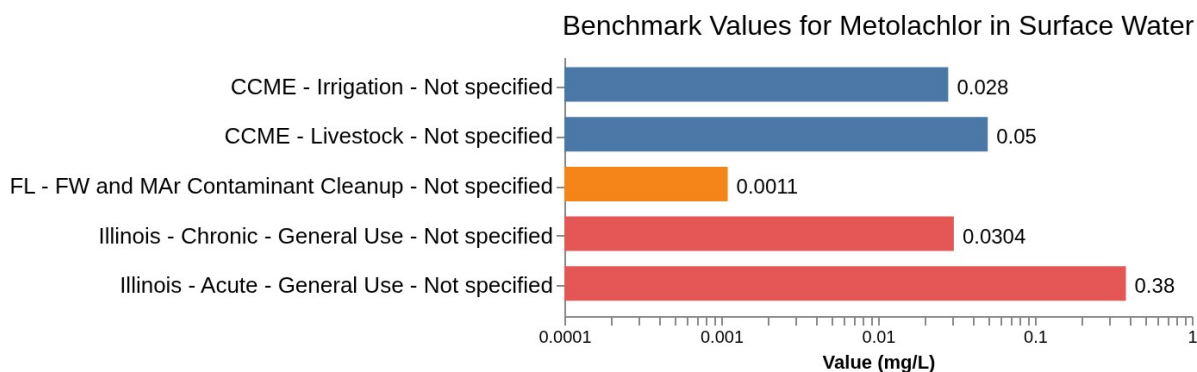


Table 373: Benchmark Values for Metribuzin in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
21087-64-9	Canada	Water Irrigation	Not specified	0.0005
21087-64-9	Canada	Water Livestock	Not specified	0.0800
21087-64-9	Florida	Freshwater and Marine Water Contaminant Cleanup	Not specified	0.0640
21087-64-9	Illinois	Acute – General Use	Not specified	8.4000

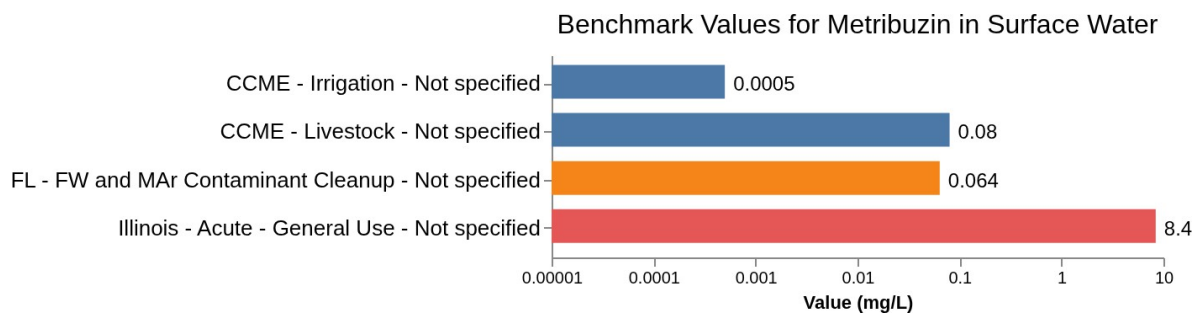


Table 374: Benchmark Values for Mevinphos in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
7786-34-7	Florida	Freshwater and Marine Water Contaminant Cleanup	Not specified	0.00005

Benchmark Values for Mevinphos in Surface Water

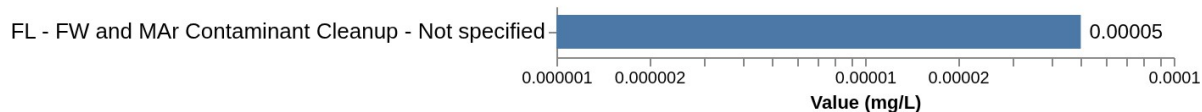


Table 375: Benchmark Values for Mirex in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
2385-85-5	Florida	SWQS for Shellfish Propagation or Harvesting	Not specified	0.000001	
2385-85-5	Illinois	Chronic – General Use	Not specified	0.000001	196

Benchmark Values for Mirex in Surface Water

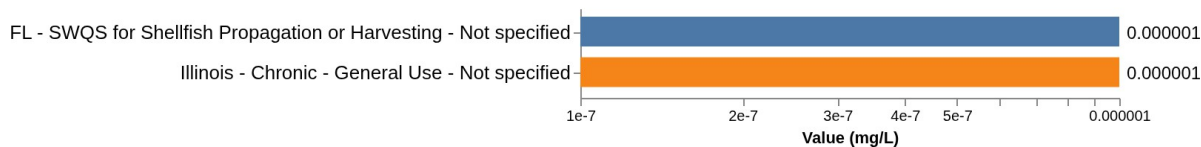


Table 376: Benchmark Values for Molinate in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
2212-67-1	Florida	Freshwater and Marine Water Contaminant Cleanup	Not specified	0.017

Benchmark Values for Molinate in Surface Water

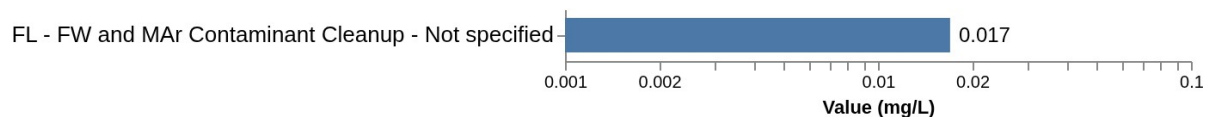


Table 377: Benchmark Values for Molybdenum in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
7439-98-7	British Columbia	Livestock LTC	Not specified	0.016	230
7439-98-7	British Columbia	Irrigation LTC	Not specified	0.028	142
7439-98-7	British Columbia	LTC	Not specified	0.034	230
7439-98-7	British Columbia	Irrigation STA	Not specified	0.05	140
7439-98-7	Canada	Water Livestock	Not specified	0.5	
7439-98-7	Canada	Water Irrigation	Not specified		49
7439-98-7	LANL ECORISK	Surface Water No Effect ESL	Aquatic community organisms	1.8	
7439-98-7	LANL ECORISK	Surface Water Low Effect ESL	Aquatic community organisms	7.9	
7439-98-7	ORNL	EC20 Daphnids	Not specified	0.36	
7439-98-7	ORNL	Tier II Secondary Chronic Value	Not specified	0.37	
7439-98-7	ORNL	SW Lowest Chronic Value – All Organisms	Not specified	0.88	
7439-98-7	ORNL	SW Lowest Chronic Value – Daphnids	Not specified	0.88	
7439-98-7	ORNL	Tier II Secondary Acute Value	Not specified	16	

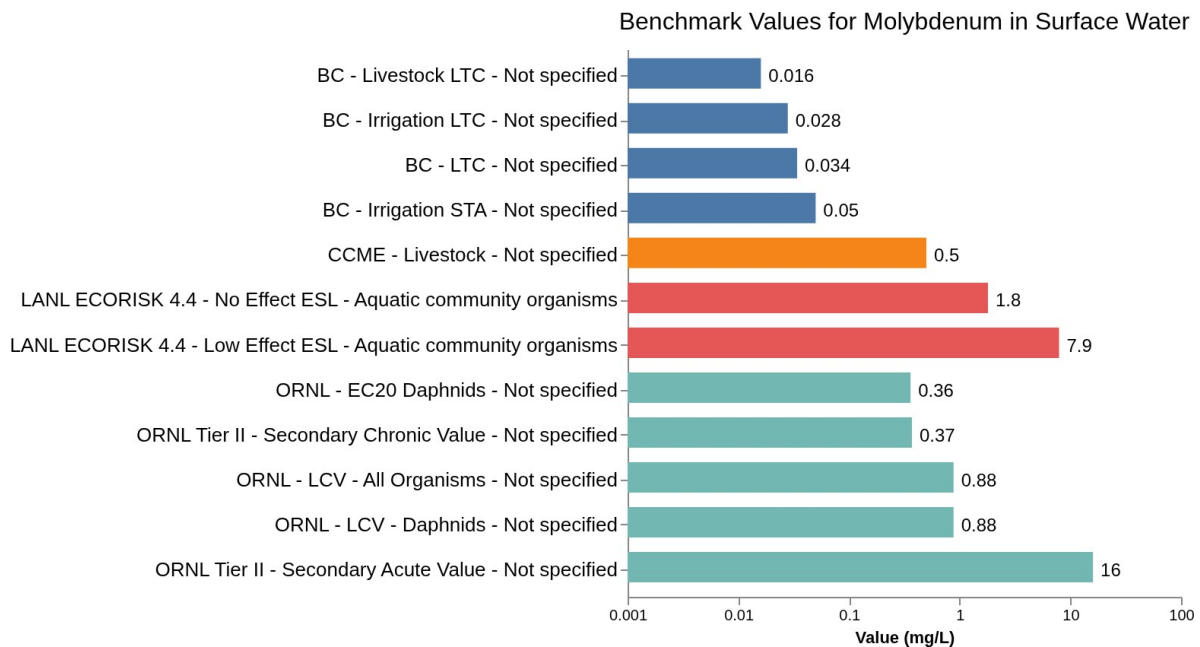


Table 378: Benchmark Values for Morpholine in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
110-91-8	Illinois	Chronic – General Use	Not specified	0.85
110-91-8	Illinois	Acute – General Use	Not specified	11.00

Benchmark Values for Morpholine in Surface Water

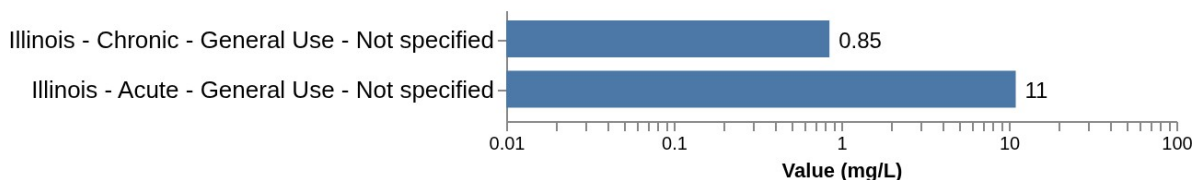


Table 379: Benchmark Values for Naled in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
300-76-5	Florida	Freshwater and Marine Water Contaminant Cleanup	Not specified	0.00002

Benchmark Values for Naled in Surface Water

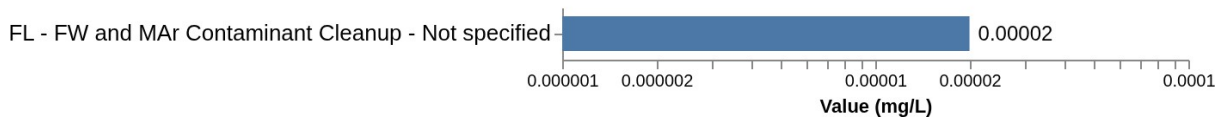


Table 380: Benchmark Values for Naphthacene in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
92-24-0	EPA ESBs	Final Chronic Value	Not specified	0.00243

Benchmark Values for Naphthacene in Surface Water

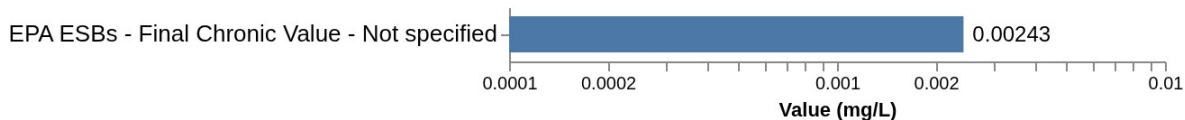


Table 381: Benchmark Values for Naphthalene in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
91-20-3	EPA ESBs	Final Chronic Value	Not specified	0.1935	
91-20-3	EPA Region 4	Freshwater and Saltwater Chronic for PAHs	Not specified	0.1940	
91-20-3	EPA Region 4	Freshwater and Saltwater Acute for PAHs	Not specified	0.4020	
91-20-3	EPA Region 5	EPA RCRA Surface Water	Not specified	0.0130	
91-20-3	Florida	Freshwater and Marine Water Contaminant Cleanup	Not specified	0.0260	
91-20-3	Illinois	Chronic – General Use	Not specified	0.0680	
91-20-3	Illinois	Acute – General Use	Not specified	0.5100	
91-20-3	LANL ECORISK	Surface Water No Effect ESL	Aquatic community organisms	0.0011	
91-20-3	LANL ECORISK	Surface Water Low Effect ESL	Aquatic community organisms	0.0110	
91-20-3	LANL ECORISK	Surface Water No Effect ESL	Violet-green swallow	0.0570	
91-20-3	LANL ECORISK	Surface Water No Effect ESL	American robin	0.0990	
91-20-3	LANL ECORISK	Surface Water No Effect ESL	American kestrel	0.1100	
91-20-3	LANL ECORISK	Surface Water Low Effect ESL	Violet-green swallow	0.5700	
91-20-3	LANL ECORISK	Surface Water Low Effect ESL	American robin	0.9900	
91-20-3	LANL ECORISK	Surface Water Low Effect ESL	American kestrel	1.1000	
91-20-3	LANL ECORISK	Surface Water No Effect ESL	Montane shrew	2.2000	
91-20-3	LANL ECORISK	Surface Water No Effect ESL	Deer mouse	2.6000	
91-20-3	LANL ECORISK	Surface Water No Effect ESL	Occult little brown myotis bat	3.1000	
91-20-3	LANL ECORISK	Surface Water No Effect ESL	Mountain cottontail	5.1000	
91-20-3	LANL ECORISK	Surface Water No Effect ESL	Gray fox	5.8000	
91-20-3	LANL ECORISK	Surface Water Low Effect ESL	Montane shrew	22.0000	
91-20-3	LANL ECORISK	Surface Water Low Effect ESL	Deer mouse	26.0000	
91-20-3	LANL ECORISK	Surface Water Low Effect ESL	Occult little brown myotis bat	31.0000	
91-20-3	LANL ECORISK	Surface Water Low Effect ESL	Mountain cottontail	51.0000	
91-20-3	LANL ECORISK	Surface Water Low Effect ESL	Gray fox	58.0000	
91-20-3	ORNL	Tier II Secondary Chronic Value	Not specified	0.0120	
91-20-3	ORNL	Tier II Secondary Acute Value	Not specified	0.1900	
91-20-3	ORNL	EC20 Fish	Not specified	0.4500	
91-20-3	ORNL	EC20 Daphnids	Not specified	0.6000	22
91-20-3	ORNL	SW Lowest Chronic Value – All Organisms	Not specified	0.6200	
91-20-3	ORNL	SW Lowest Chronic Value – Fish	Not specified	0.6200	
91-20-3	ORNL	EC25 Bass Population	Not specified	1.0000	
91-20-3	ORNL	SW Lowest Chronic Value – Daphnids	Not specified	1.1600	24
91-20-3	ORNL	SW Lowest Chronic Value – Aquatic Plants	Not specified	33.0000	

Benchmark Values for Naphthalene in Surface Water

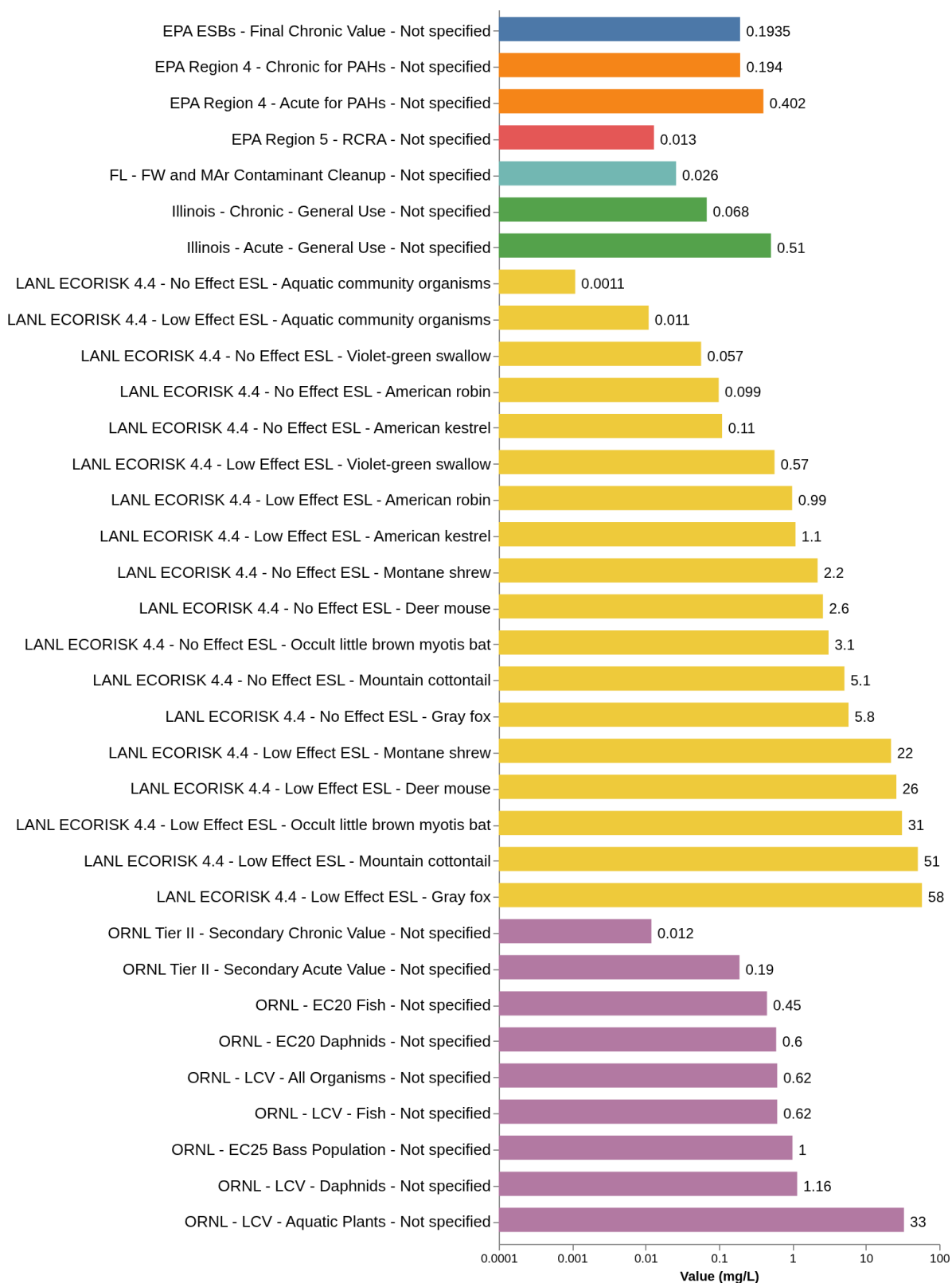


Table 382: Benchmark Values for Naphthalenes, C1- in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
000000-12-4	EPA ESBs	Final Chronic Value	Not specified	0.08169
000000-12-4	EPA Region 4	Freshwater and Saltwater Chronic for PAHs	Not specified	0.08200
000000-12-4	EPA Region 4	Freshwater and Saltwater Acute for PAHs	Not specified	0.17000

Benchmark Values for Naphthalenes, C1- in Surface Water

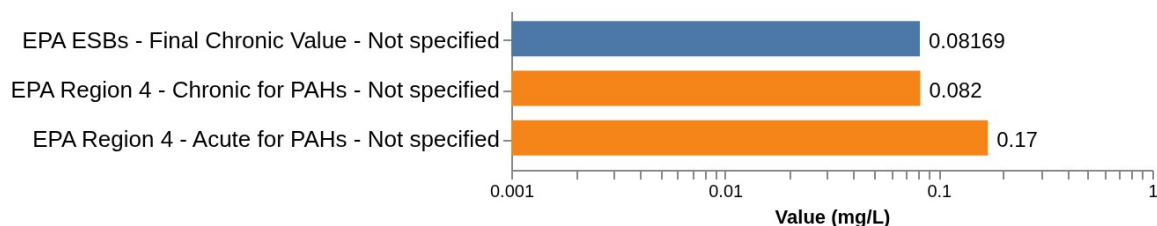


Table 383: Benchmark Values for Naphthalenes, C2- in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
000000-12-5	EPA ESBs	Final Chronic Value	Not specified	0.03024
000000-12-5	EPA Region 4	Freshwater and Saltwater Chronic for PAHs	Not specified	0.03000
000000-12-5	EPA Region 4	Freshwater and Saltwater Acute for PAHs	Not specified	0.06300

Benchmark Values for Naphthalenes, C2- in Surface Water

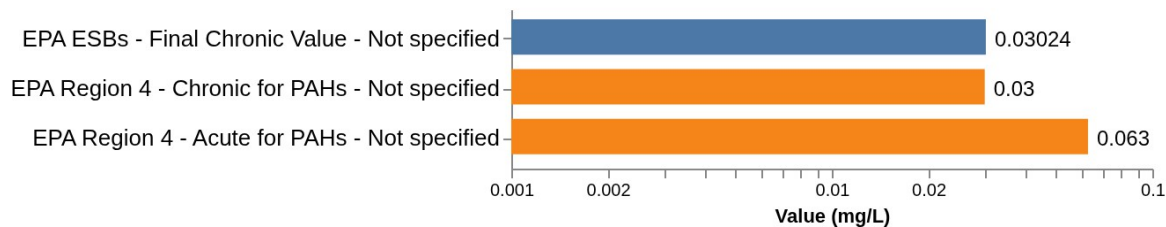


Table 384: Benchmark Values for Naphthalenes, C3- in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
000000-12-6	EPA ESBs	Final Chronic Value	Not specified	0.0111
000000-12-6	EPA Region 4	Freshwater and Saltwater Chronic for PAHs	Not specified	0.0110
000000-12-6	EPA Region 4	Freshwater and Saltwater Acute for PAHs	Not specified	0.0230

Benchmark Values for Naphthalenes, C3- in Surface Water

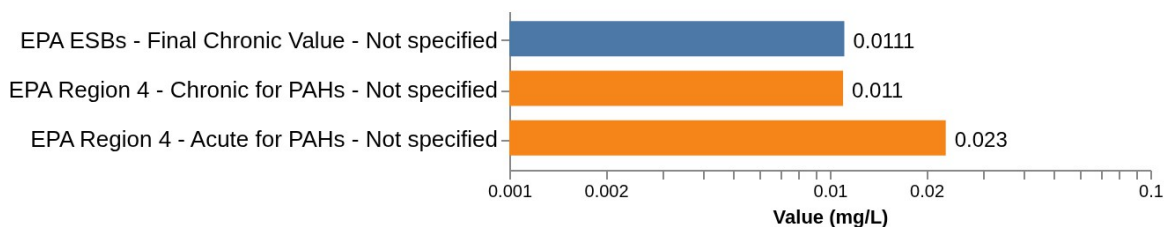


Table 385: Benchmark Values for Naphthalenes, C4- in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
000000-12-7	EPA ESBs	Final Chronic Value	Not specified	0.004048
000000-12-7	EPA Region 4	Freshwater and Saltwater Chronic for PAHs	Not specified	0.004000
000000-12-7	EPA Region 4	Freshwater and Saltwater Acute for PAHs	Not specified	0.008400

Benchmark Values for Naphthalenes, C4- in Surface Water

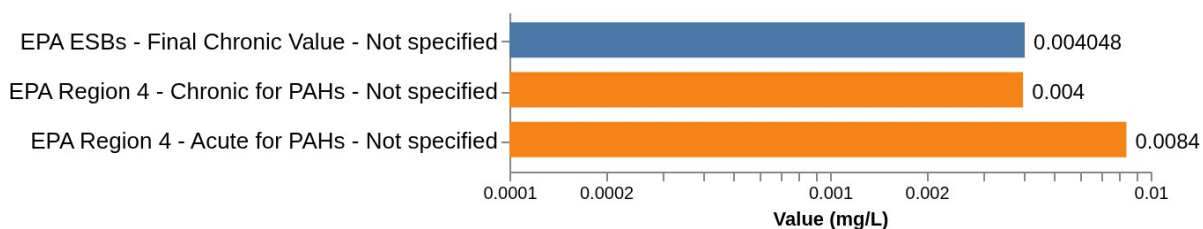
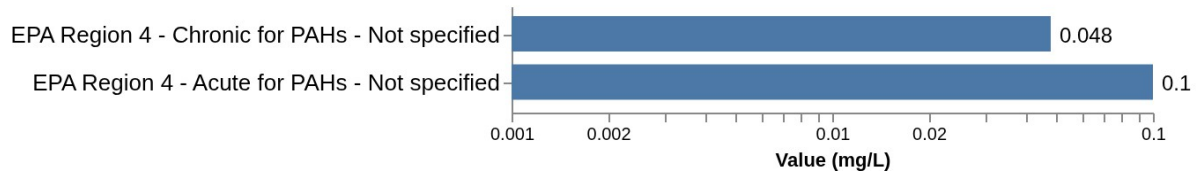


Table 386: Benchmark Values for Naphthothiophene in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
233-02-3	EPA Region 4	Freshwater and Saltwater Chronic for PAHs	Not specified	0.048
233-02-3	EPA Region 4	Freshwater and Saltwater Acute for PAHs	Not specified	0.100

Benchmark Values for Naphthothiophene in Surface Water**Table 387: Benchmark Values for Napropamide in Surface Water**

CAS	Source	Benchmark	Organism	Value (mg/L)
15299-99-7	Florida	Freshwater and Marine Water Contaminant Cleanup	Not specified	0.21

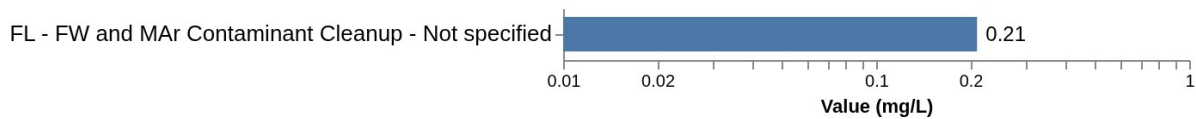
Benchmark Values for Napropamide in Surface Water

Table 388: Benchmark Values for Nickel Soluble Salts in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
7440-02-0	Canada	Water Irrigation	Not specified	0.2000	
7440-02-0	Canada	Water Livestock	Not specified	1.0000	
7440-02-0	EPA Region 5	EPA RCRA Surface Water	Not specified	0.0289	12
7440-02-0	Florida	SWQS for Shellfish Propagation or Harvesting	Not specified	0.0083	
7440-02-0	LANL ECORISK	Surface Water No Effect ESL	Aquatic community organisms	0.0290	
7440-02-0	LANL ECORISK	Surface Water Low Effect ESL	Aquatic community organisms	0.2600	
7440-02-0	LANL ECORISK	Surface Water No Effect ESL	Montane shrew	0.3000	
7440-02-0	LANL ECORISK	Surface Water No Effect ESL	Deer mouse	0.3600	
7440-02-0	LANL ECORISK	Surface Water No Effect ESL	Occult little brown myotis bat	0.4300	
7440-02-0	LANL ECORISK	Surface Water No Effect ESL	Mountain cottontail	0.7100	
7440-02-0	LANL ECORISK	Surface Water No Effect ESL	Gray fox	0.8000	
7440-02-0	LANL ECORISK	Surface Water Low Effect ESL	Montane shrew	3.0000	
7440-02-0	LANL ECORISK	Surface Water Low Effect ESL	Deer mouse	3.6000	
7440-02-0	LANL ECORISK	Surface Water Low Effect ESL	Occult little brown myotis bat	4.3000	
7440-02-0	LANL ECORISK	Surface Water Low Effect ESL	Mountain cottontail	7.1000	
7440-02-0	LANL ECORISK	Surface Water Low Effect ESL	Gray fox	8.0000	
7440-02-0	LANL ECORISK	Surface Water No Effect ESL	Violet-green swallow	110.0000	
7440-02-0	LANL ECORISK	Surface Water Low Effect ESL	Violet-green swallow	160.0000	
7440-02-0	LANL ECORISK	Surface Water No Effect ESL	American robin	200.0000	
7440-02-0	LANL ECORISK	Surface Water No Effect ESL	American kestrel	230.0000	
7440-02-0	LANL ECORISK	Surface Water Low Effect ESL	American robin	270.0000	
7440-02-0	LANL ECORISK	Surface Water Low Effect ESL	American kestrel	320.0000	
7440-02-0	ORNL	SW Lowest Chronic Value – Daphnids	Not specified	0.0050	23
7440-02-0	ORNL	SW Lowest Chronic Value – All Organisms	Not specified	0.0050	23
7440-02-0	ORNL	SW Lowest Chronic Value – Aquatic Plants	Not specified	0.0050	
7440-02-0	ORNL	EC20 Sensitive Species	Not specified	0.0110	30
7440-02-0	ORNL	SW Lowest Chronic Value – Fish	Not specified	0.0350	23
7440-02-0	ORNL	EC20 Daphnids	Not specified	0.0450	
7440-02-0	ORNL	EC20 Fish	Not specified	0.0620	
7440-02-0	ORNL	SW Lowest Chronic Value – Non-Daphnid Inverts	Not specified	0.1280	
7440-02-0	ORNL	EC25 Bass Population	Not specified	0.2150	
7440-02-0	Ohio	OMZA	Not specified	0.0520	187, 190
7440-02-0	Ohio	OMZM	Not specified	0.4700	187, 190
7440-02-0	Ohio	IMZM	Not specified	0.9400	187, 190

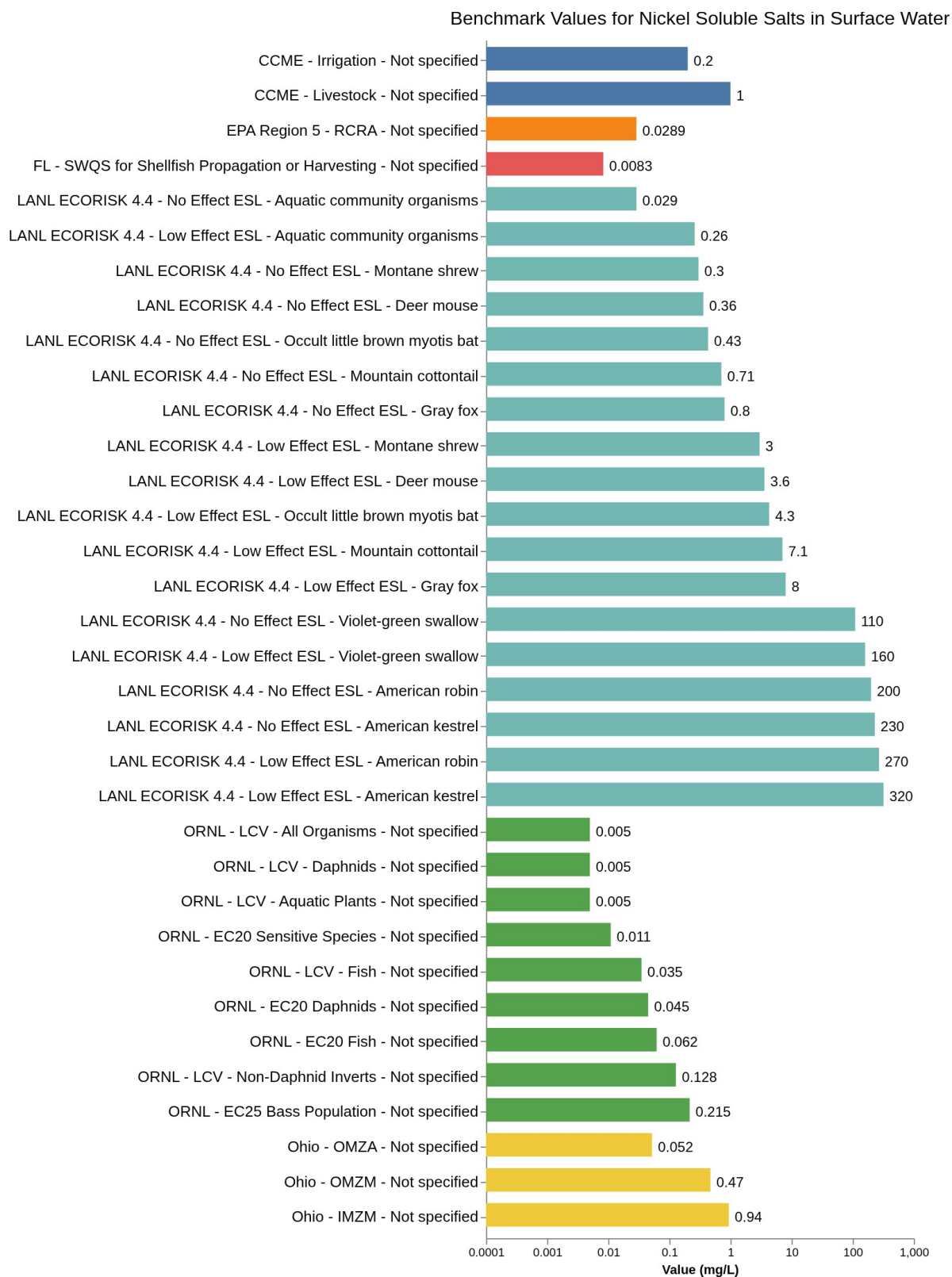


Table 389: Benchmark Values for Nitrate (measured as nitrogen) in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
14797-55-8	British Columbia	STA	Not specified	100	146
14797-55-8	British Columbia	Livestock STA	Not specified	100	146

Benchmark Values for Nitrate (measured as nitrogen) in Surface Water

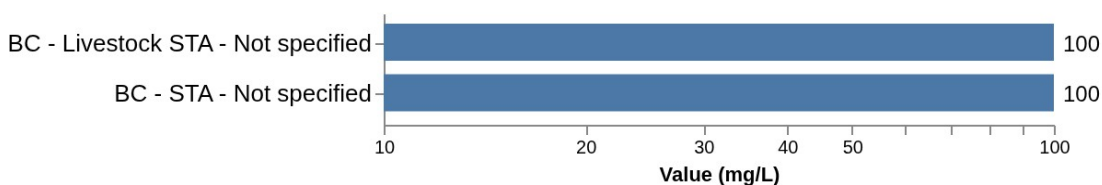


Table 390: Benchmark Values for Nitrite (measured as nitrogen) in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
14797-65-0	British Columbia	Livestock STA	Not specified	10
14797-65-0	British Columbia	STA	Not specified	10

Benchmark Values for Nitrite (measured as nitrogen) in Surface Water

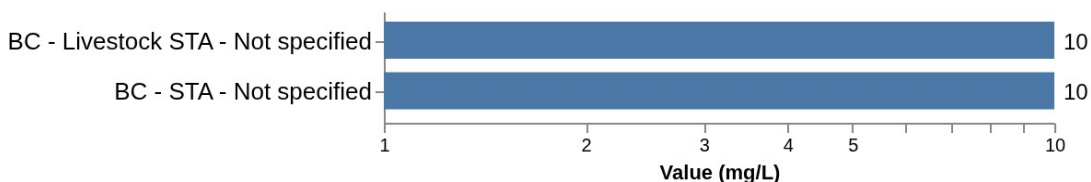


Table 391: Benchmark Values for Nitroaniline, 2- in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
88-74-4	Illinois	Chronic – General Use	Not specified	0.2	195
88-74-4	Illinois	Acute – General Use	Not specified	2.0	195

Benchmark Values for Nitroaniline, 2- in Surface Water

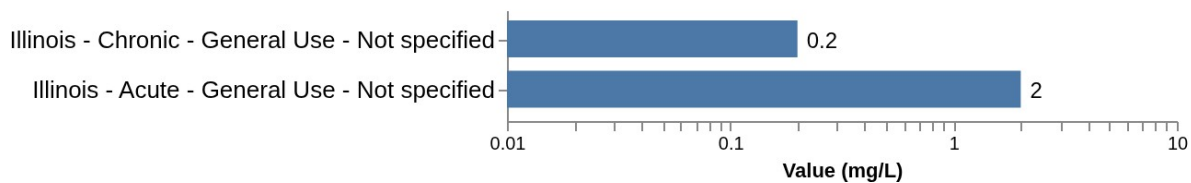


Table 392: Benchmark Values for Nitroaniline, 4- in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
100-01-6	Florida	Freshwater and Marine Water Contaminant Cleanup	Not specified	1.20	
100-01-6	Illinois	Chronic – General Use	Not specified	0.12	195
100-01-6	Illinois	Acute – General Use	Not specified	1.50	195

Benchmark Values for Nitroaniline, 4- in Surface Water

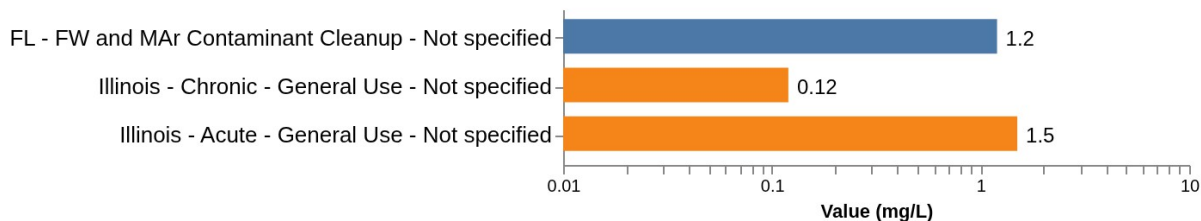


Table 393: Benchmark Values for Nitrobenzene in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
98-95-3	EPA Region 4	Freshwater and Saltwater Chronic Narcotic MOA	Not specified	5.084
98-95-3	EPA Region 4	Freshwater and Saltwater Acute, Narcotic MOA	Not specified	19.470
98-95-3	EPA Region 5	EPA RCRA Surface Water	Not specified	0.220
98-95-3	Florida	Freshwater and Marine Water Contaminant Cleanup	Not specified	0.090
98-95-3	Illinois	Chronic – General Use	Not specified	8.500
98-95-3	Illinois	Acute – General Use	Not specified	15.000
98-95-3	LANL ECORISK	Surface Water No Effect ESL	Aquatic community organisms	0.550
98-95-3	LANL ECORISK	Surface Water Low Effect ESL	Aquatic community organisms	2.200
98-95-3	LANL ECORISK	Surface Water No Effect ESL	Montane shrew	26.000
98-95-3	LANL ECORISK	Surface Water No Effect ESL	Deer mouse	31.000
98-95-3	LANL ECORISK	Surface Water No Effect ESL	Occult little brown myotis bat	37.000
98-95-3	LANL ECORISK	Surface Water No Effect ESL	Mountain cottontail	60.000
98-95-3	LANL ECORISK	Surface Water No Effect ESL	Gray fox	68.000
98-95-3	LANL ECORISK	Surface Water Low Effect ESL	Montane shrew	260.000
98-95-3	LANL ECORISK	Surface Water Low Effect ESL	Deer mouse	310.000
98-95-3	LANL ECORISK	Surface Water Low Effect ESL	Occult little brown myotis bat	370.000
98-95-3	LANL ECORISK	Surface Water Low Effect ESL	Mountain cottontail	600.000
98-95-3	LANL ECORISK	Surface Water Low Effect ESL	Gray fox	680.000

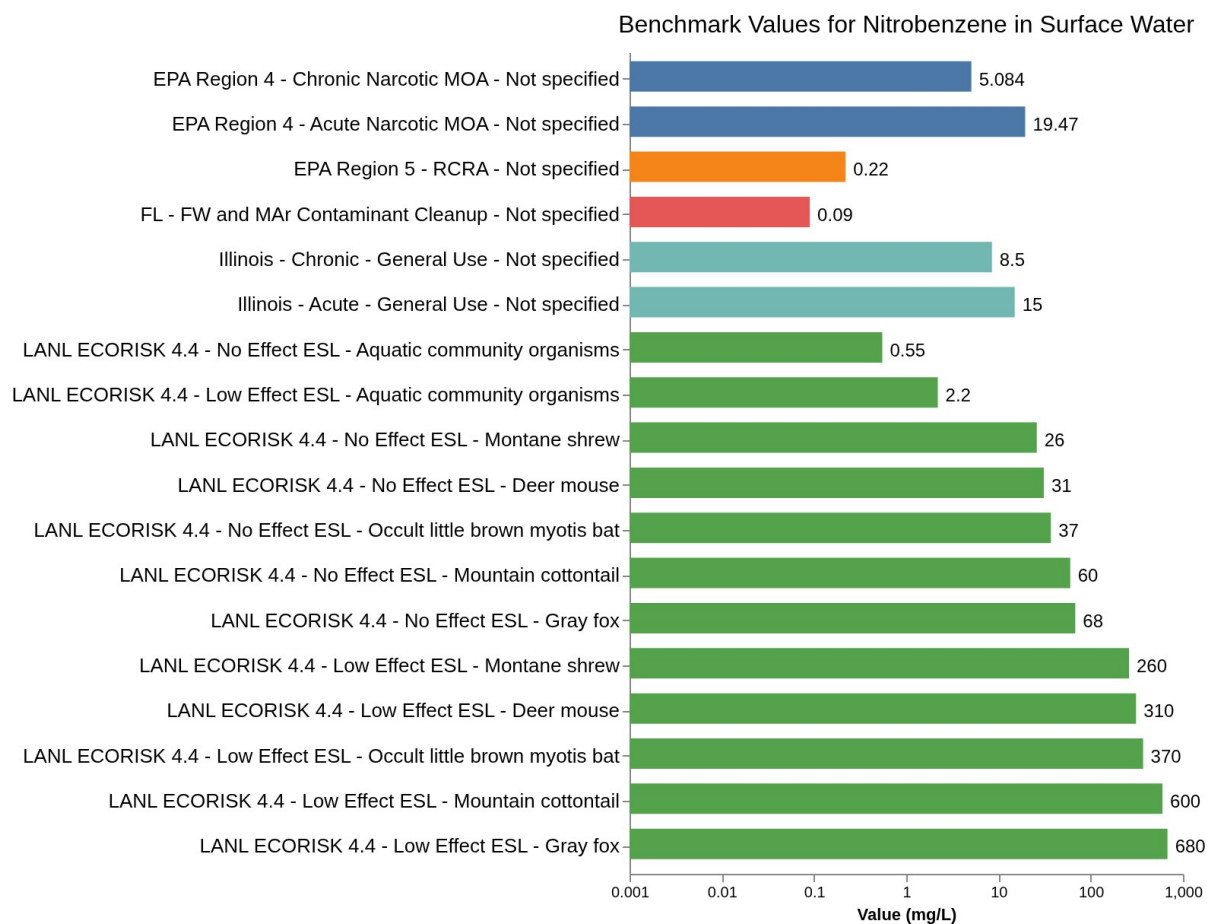


Table 394: Benchmark Values for Nitroglycerin in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
55-63-0	LANL ECORISK	Surface Water No Effect ESL	Montane shrew	430.0
55-63-0	LANL ECORISK	Surface Water No Effect ESL	Deer mouse	500.0
55-63-0	LANL ECORISK	Surface Water No Effect ESL	Occult little brown myotis bat	600.0
55-63-0	LANL ECORISK	Surface Water No Effect ESL	Mountain cottontail	990.0
55-63-0	LANL ECORISK	Surface Water No Effect ESL	Gray fox	1100.0
55-63-0	LANL ECORISK	Surface Water Low Effect ESL	Montane shrew	4500.0
55-63-0	LANL ECORISK	Surface Water Low Effect ESL	Deer mouse	5300.0
55-63-0	LANL ECORISK	Surface Water Low Effect ESL	Occult little brown myotis bat	6400.0
55-63-0	LANL ECORISK	Surface Water Low Effect ESL	Mountain cottontail	10000.0
55-63-0	LANL ECORISK	Surface Water Low Effect ESL	Gray fox	11000.0

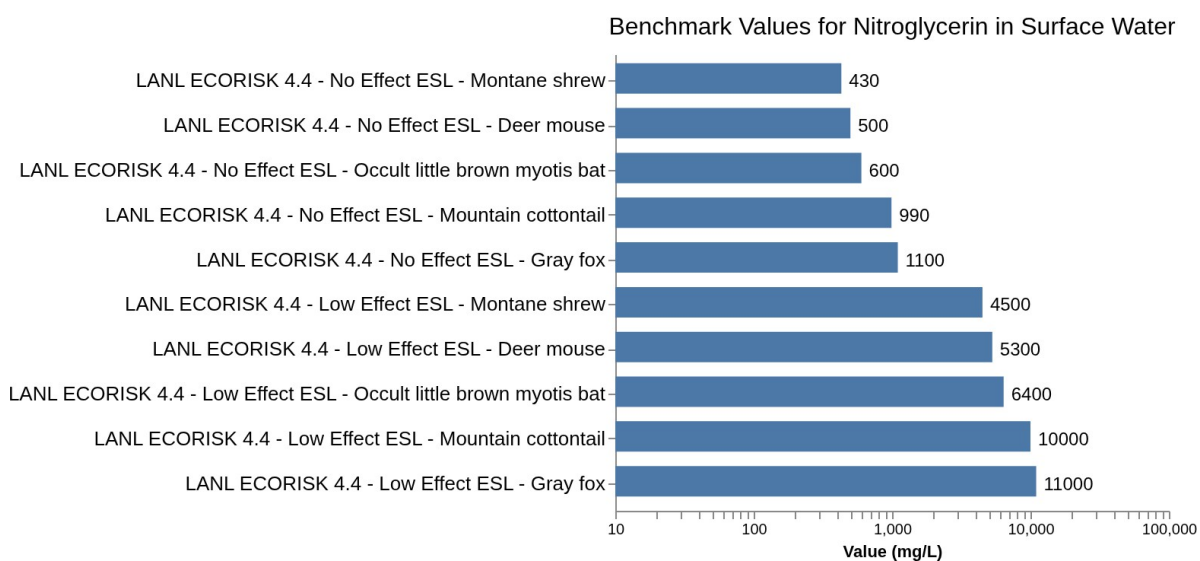


Table 395: Benchmark Values for Nitrophenol, 2- in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
88-75-5	Illinois	Chronic – General Use	Not specified	0.54
88-75-5	Illinois	Acute – General Use	Not specified	6.70

Benchmark Values for Nitrophenol, 2- in Surface Water

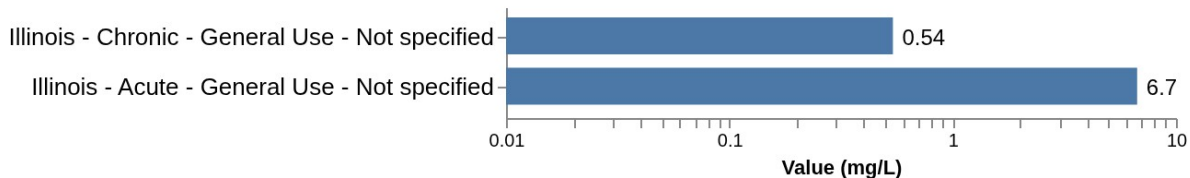


Table 396: Benchmark Values for Nitrophenol, 4- in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
100-02-7	EPA Region 5	EPA RCRA Surface Water	Not specified	0.060	
100-02-7	Florida	Freshwater and Marine Water Contaminant Cleanup	Not specified	0.055	
100-02-7	Illinois	Chronic – General Use	Not specified	1.900	
100-02-7	Illinois	Acute – General Use	Not specified	3.200	
100-02-7	ORNL	EC25 Bass Population	Not specified	0.060	
100-02-7	ORNL	Tier II Secondary Chronic Value	Not specified	0.300	
100-02-7	ORNL	EC20 Fish	Not specified	0.464	29
100-02-7	ORNL	SW Lowest Chronic Value – Fish	Not specified	0.481	24
100-02-7	ORNL	SW Lowest Chronic Value – All Organisms	Not specified	0.481	24
100-02-7	ORNL	Tier II Secondary Acute Value	Not specified	1.200	
100-02-7	ORNL	SW Lowest Chronic Value – Aquatic Plants	Not specified	4.190	
100-02-7	ORNL	EC20 Daphnids	Not specified	5.000	
100-02-7	ORNL	SW Lowest Chronic Value – Daphnids	Not specified	7.100	

Benchmark Values for Nitrophenol, 4- in Surface Water

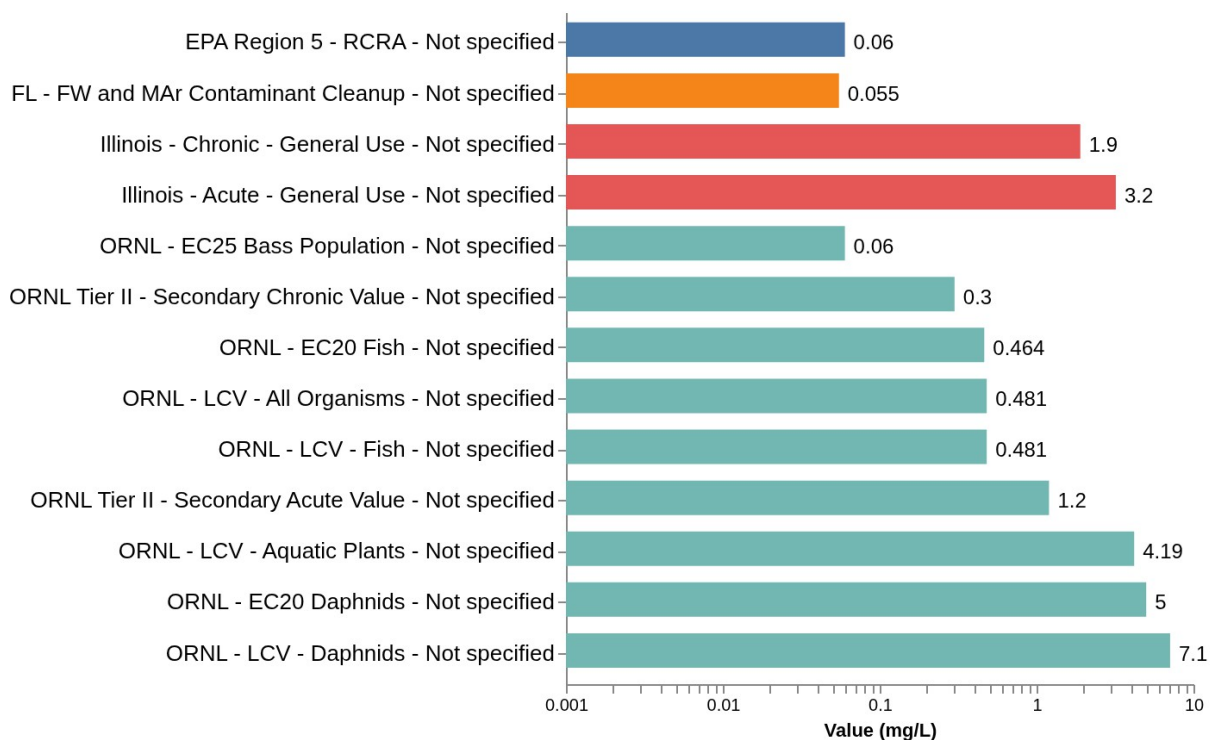


Table 397: Benchmark Values for Nitrosodiethylamine, N- in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
55-18-5	EPA Region 5	EPA RCRA Surface Water	Not specified	0.768

Benchmark Values for Nitrosodiethylamine, N- in Surface Water

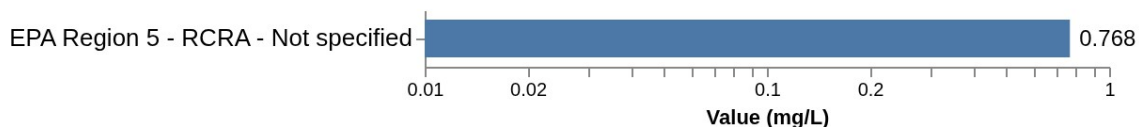


Table 398: Benchmark Values for Nitrosodiphenylamine, N- in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
86-30-6	EPA Region 4	Freshwater and Saltwater Chronic Narcotic MOA	Not specified	0.084	
86-30-6	EPA Region 4	Freshwater and Saltwater Acute, Narcotic MOA	Not specified	0.283	
86-30-6	ORNL	EC25 Bass Population	Not specified	0.040	
86-30-6	ORNL	Tier II Secondary Chronic Value	Not specified	0.210	
86-30-6	ORNL	SW Lowest Chronic Value – All Organisms	Not specified	0.332	24
86-30-6	ORNL	SW Lowest Chronic Value – Fish	Not specified	0.332	24
86-30-6	ORNL	EC20 Fish	Not specified	0.339	29
86-30-6	ORNL	SW Lowest Chronic Value – Daphnids	Not specified	1.040	24
86-30-6	ORNL	Tier II Secondary Acute Value	Not specified	3.800	

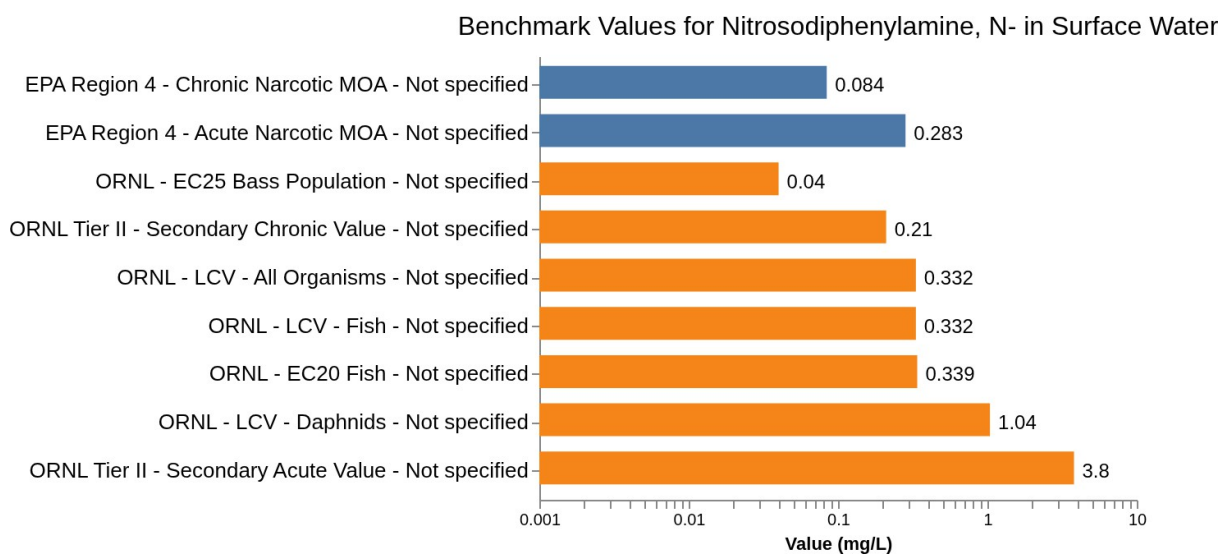


Table 399: Benchmark Values for Nitrotoluene, m- in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
99-08-1	EPA Region 4	Freshwater and Saltwater Chronic Narcotic MOA	Not specified	1.733
99-08-1	EPA Region 4	Freshwater and Saltwater Acute, Narcotic MOA	Not specified	6.631
99-08-1	Florida	Freshwater and Marine Water Contaminant Cleanup	Not specified	0.380
99-08-1	LANL ECORISK	Surface Water No Effect ESL	Montane shrew	47.000
99-08-1	LANL ECORISK	Surface Water No Effect ESL	Deer mouse	56.000
99-08-1	LANL ECORISK	Surface Water No Effect ESL	Occult little brown myotis bat	67.000
99-08-1	LANL ECORISK	Surface Water No Effect ESL	Mountain cottontail	110.000
99-08-1	LANL ECORISK	Surface Water No Effect ESL	Gray fox	120.000
99-08-1	LANL ECORISK	Surface Water Low Effect ESL	Montane shrew	470.000
99-08-1	LANL ECORISK	Surface Water Low Effect ESL	Deer mouse	560.000
99-08-1	LANL ECORISK	Surface Water Low Effect ESL	Occult little brown myotis bat	670.000
99-08-1	LANL ECORISK	Surface Water Low Effect ESL	Mountain cottontail	1100.000
99-08-1	LANL ECORISK	Surface Water Low Effect ESL	Gray fox	1200.000

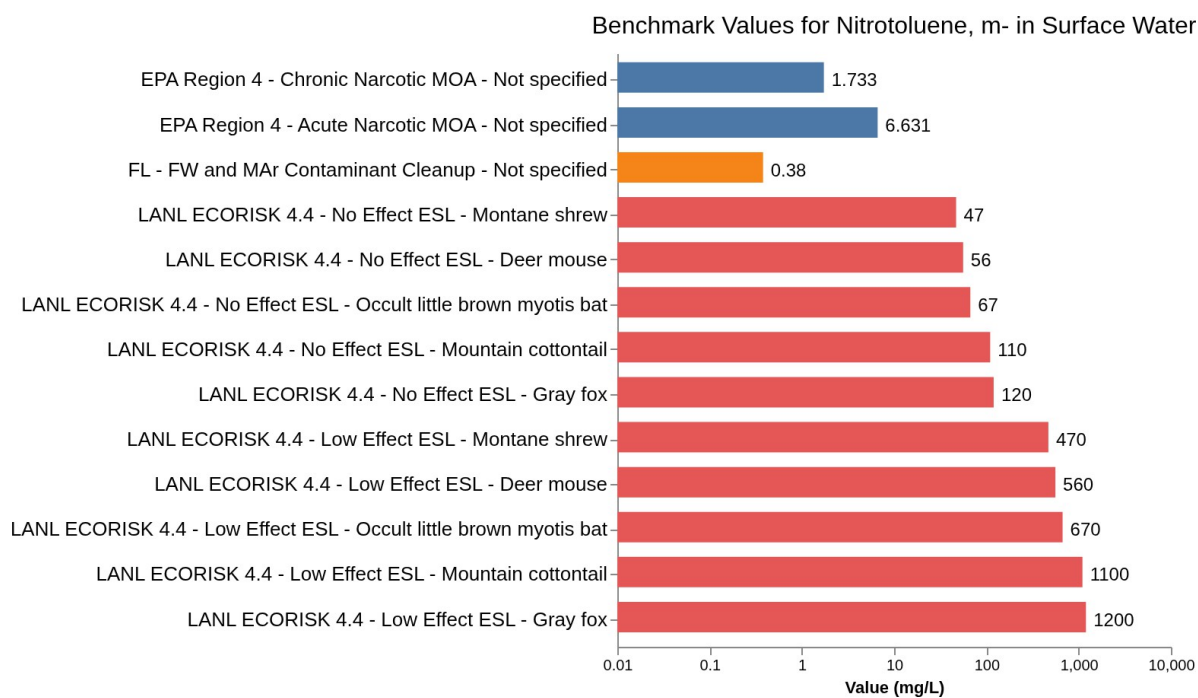


Table 400: Benchmark Values for Nitrotoluene, o- in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
88-72-2	EPA Region 4	Freshwater and Saltwater Chronic Narcotic MOA	Not specified	1.733
88-72-2	EPA Region 4	Freshwater and Saltwater Acute, Narcotic MOA	Not specified	6.631
88-72-2	Florida	Freshwater and Marine Water Contaminant Cleanup	Not specified	0.550
88-72-2	Illinois	Chronic – General Use	Not specified	0.062
88-72-2	Illinois	Acute – General Use	Not specified	0.770
88-72-2	LANL ECORISK	Surface Water No Effect ESL	Montane shrew	39.000
88-72-2	LANL ECORISK	Surface Water No Effect ESL	Deer mouse	46.000
88-72-2	LANL ECORISK	Surface Water No Effect ESL	Occult little brown myotis bat	56.000
88-72-2	LANL ECORISK	Surface Water No Effect ESL	Mountain cottontail	91.000
88-72-2	LANL ECORISK	Surface Water No Effect ESL	Gray fox	100.000
88-72-2	LANL ECORISK	Surface Water Low Effect ESL	Montane shrew	390.000
88-72-2	LANL ECORISK	Surface Water Low Effect ESL	Deer mouse	460.000
88-72-2	LANL ECORISK	Surface Water Low Effect ESL	Occult little brown myotis bat	560.000
88-72-2	LANL ECORISK	Surface Water Low Effect ESL	Mountain cottontail	910.000
88-72-2	LANL ECORISK	Surface Water Low Effect ESL	Gray fox	1000.000

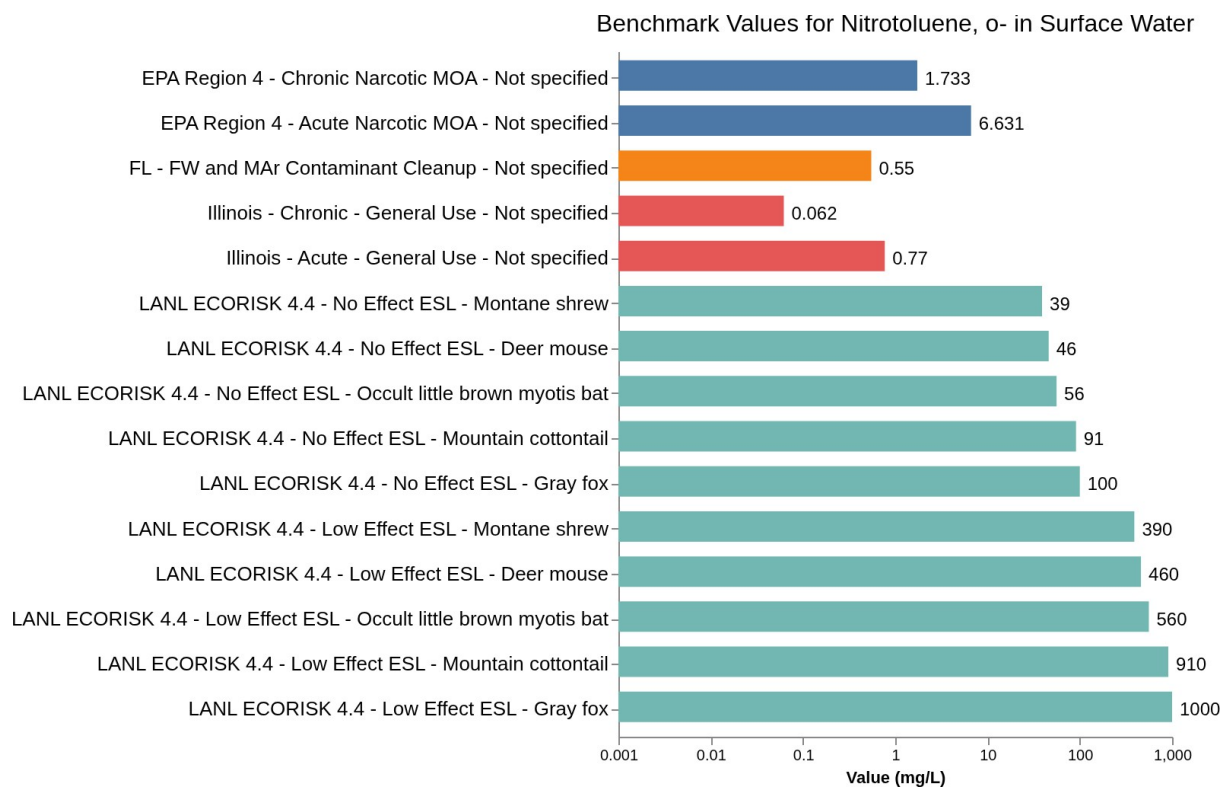


Table 401: Benchmark Values for Nitrotoluene, p- in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
99-99-0	EPA Region 4	Freshwater and Saltwater Chronic Narcotic MOA	Not specified	1.733
99-99-0	EPA Region 4	Freshwater and Saltwater Acute, Narcotic MOA	Not specified	6.631
99-99-0	Florida	Freshwater and Marine Water Contaminant Cleanup	Not specified	0.550
99-99-0	LANL ECORISK	Surface Water No Effect ESL	Montane shrew	87.000
99-99-0	LANL ECORISK	Surface Water No Effect ESL	Deer mouse	100.000
99-99-0	LANL ECORISK	Surface Water No Effect ESL	Occult little brown myotis bat	120.000
99-99-0	LANL ECORISK	Surface Water No Effect ESL	Mountain cottontail	200.000
99-99-0	LANL ECORISK	Surface Water No Effect ESL	Gray fox	220.000
99-99-0	LANL ECORISK	Surface Water Low Effect ESL	Montane shrew	870.000
99-99-0	LANL ECORISK	Surface Water Low Effect ESL	Deer mouse	1000.000
99-99-0	LANL ECORISK	Surface Water Low Effect ESL	Occult little brown myotis bat	1200.000
99-99-0	LANL ECORISK	Surface Water Low Effect ESL	Mountain cottontail	2000.000
99-99-0	LANL ECORISK	Surface Water Low Effect ESL	Gray fox	2200.000

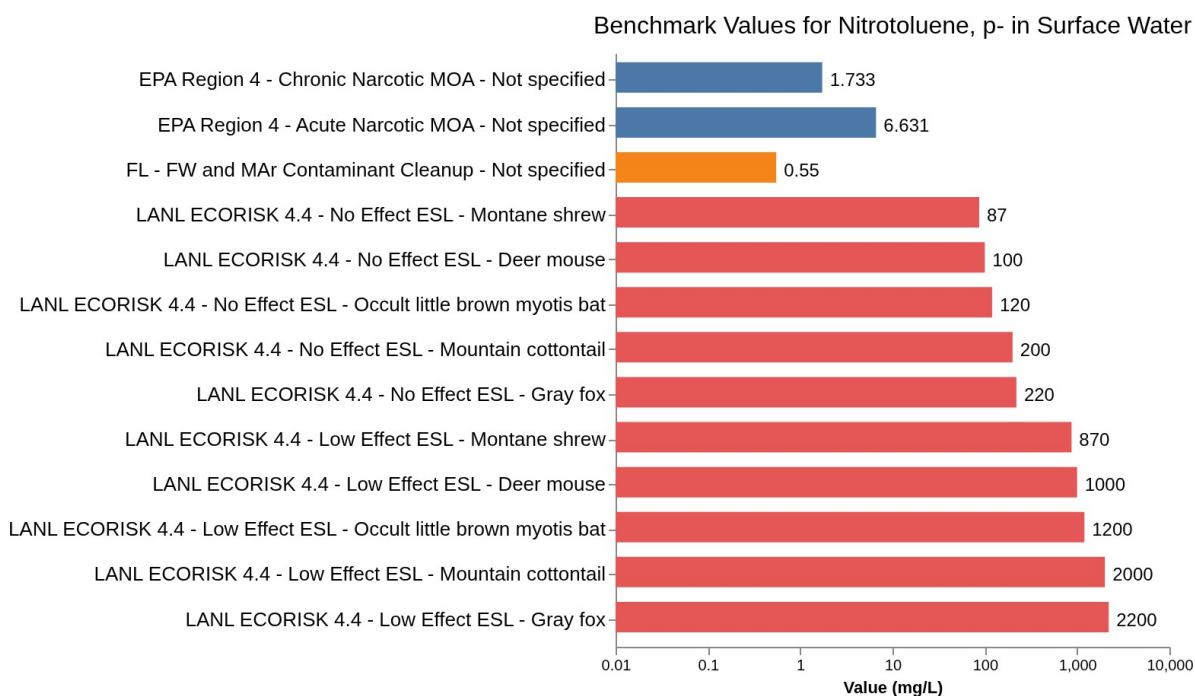


Table 402: Benchmark Values for Nonylphenol (branched) in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
84852-15-3	EPA Region 4	Freshwater and Saltwater Chronic Narcotic MOA	Not specified	0.0011
84852-15-3	EPA Region 4	Freshwater and Saltwater Acute, Narcotic MOA	Not specified	0.0040

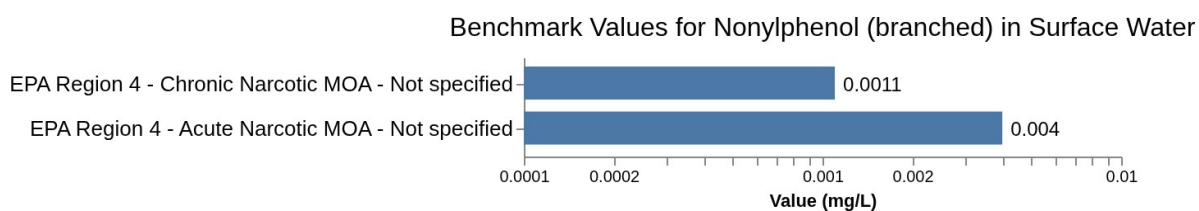


Table 403: Benchmark Values for Nonylphenol in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
25154-52-3	Florida	SWQS for Shellfish Propagation or Harvesting	Not specified	0.0017	
25154-52-3	Illinois	Chronic – General Use	Not specified	0.0005	195, 197
25154-52-3	Illinois	Acute – General Use	Not specified	0.0050	195, 197

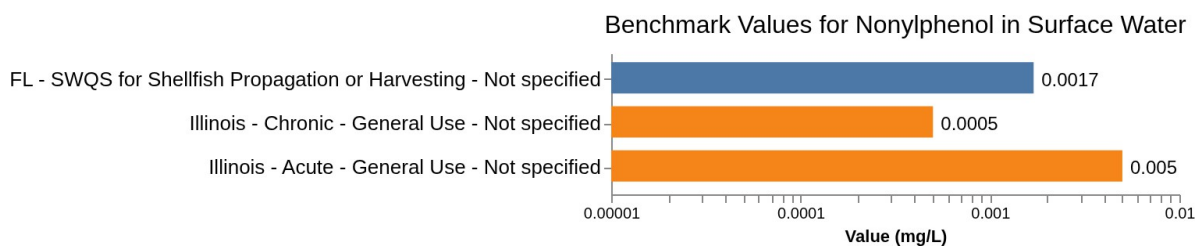


Table 404: Benchmark Values for Octahydro–1,3,5,7–tetranitro–1,3,5,7–tetrazocine (HMX) in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
2691–41–0	Florida	Freshwater and Marine Water Contaminant Cleanup	Not specified	1.30
2691–41–0	Illinois	Chronic – General Use	Not specified	0.26
2691–41–0	Illinois	Acute – General Use	Not specified	3.20
2691–41–0	LANL ECORISK	Surface Water No Effect ESL	Montane shrew	330.00
2691–41–0	LANL ECORISK	Surface Water No Effect ESL	Deer mouse	390.00
2691–41–0	LANL ECORISK	Surface Water No Effect ESL	Occult little brown myotis bat	470.00
2691–41–0	LANL ECORISK	Surface Water No Effect ESL	Mountain cottontail	770.00
2691–41–0	LANL ECORISK	Surface Water No Effect ESL	Gray fox	870.00
2691–41–0	LANL ECORISK	Surface Water Low Effect ESL	Montane shrew	890.00
2691–41–0	LANL ECORISK	Surface Water Low Effect ESL	Deer mouse	1000.00
2691–41–0	LANL ECORISK	Surface Water Low Effect ESL	Occult little brown myotis bat	1200.00
2691–41–0	LANL ECORISK	Surface Water Low Effect ESL	Mountain cottontail	2000.00
2691–41–0	LANL ECORISK	Surface Water Low Effect ESL	Gray fox	2300.00

Benchmark Values for Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine (HMX) in Surface Water

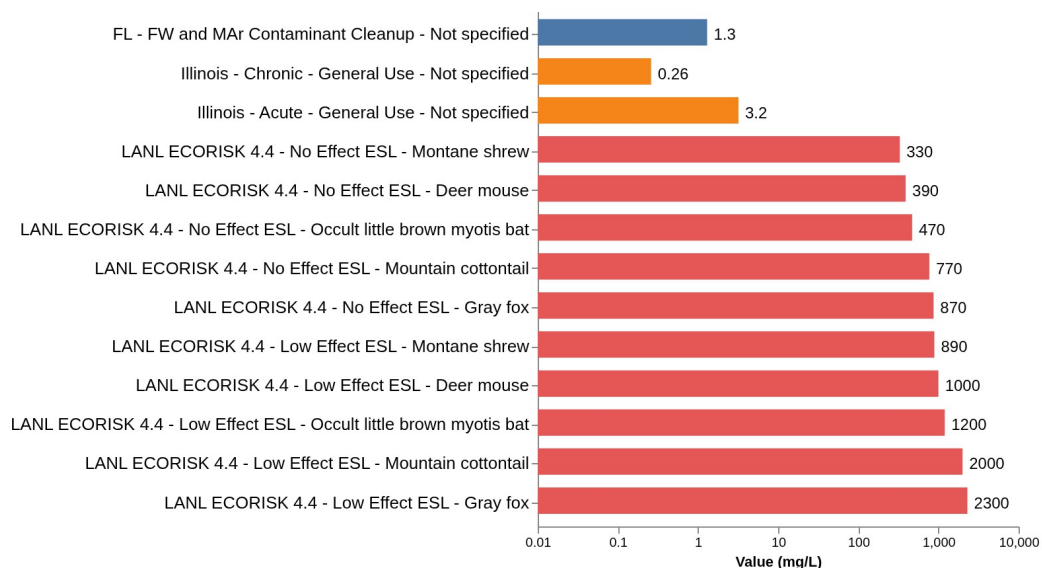


Table 405: Benchmark Values for Octanone, 2- in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
111-13-7	EPA Region 4	Freshwater and Saltwater Chronic Narcotic MOA	Not specified	2.8070
111-13-7	EPA Region 4	Freshwater and Saltwater Acute, Narcotic MOA	Not specified	10.7400
111-13-7	ORNL	Tier II Secondary Chronic Value	Not specified	0.0083
111-13-7	ORNL	Tier II Secondary Acute Value	Not specified	0.1500

Benchmark Values for Octanone, 2- in Surface Water

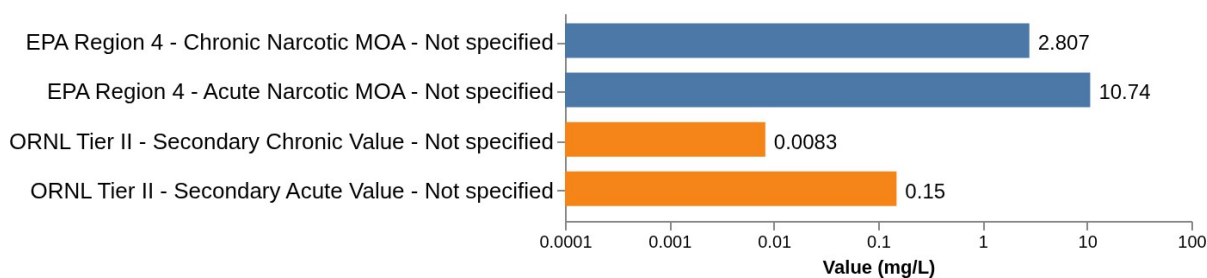


Table 406: Benchmark Values for Octanone, 3- in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
106-68-3	ORNL	EC20 Fish	Not specified	3.57	29

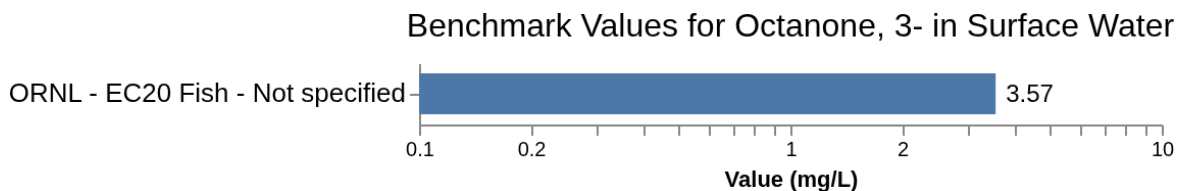


Table 407: Benchmark Values for Octyl Phthalate, di-N- in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
117-84-0	EPA Region 5	EPA RCRA Surface Water	Not specified	0.030	
117-84-0	LANL ECORISK	Surface Water No Effect ESL	Aquatic community organisms	0.003	
117-84-0	LANL ECORISK	Surface Water Low Effect ESL	Aquatic community organisms	0.030	
117-84-0	LANL ECORISK	Surface Water No Effect ESL	Montane shrew	290.000	
117-84-0	LANL ECORISK	Surface Water No Effect ESL	Deer mouse	340.000	
117-84-0	LANL ECORISK	Surface Water No Effect ESL	Occult little brown myotis bat	400.000	
117-84-0	LANL ECORISK	Surface Water No Effect ESL	Mountain cottontail	670.000	
117-84-0	LANL ECORISK	Surface Water No Effect ESL	Gray fox	750.000	
117-84-0	LANL ECORISK	Surface Water Low Effect ESL	Montane shrew	2900.000	
117-84-0	LANL ECORISK	Surface Water Low Effect ESL	Deer mouse	3400.000	
117-84-0	LANL ECORISK	Surface Water Low Effect ESL	Occult little brown myotis bat	4000.000	
117-84-0	LANL ECORISK	Surface Water Low Effect ESL	Mountain cottontail	6700.000	
117-84-0	LANL ECORISK	Surface Water Low Effect ESL	Gray fox	7500.000	
117-84-0	ORNL	EC20 Fish	Not specified	0.100	23
117-84-0	ORNL	EC20 Daphnids	Not specified	0.310	
117-84-0	ORNL	SW Lowest Chronic Value – Daphnids	Not specified	0.708	
117-84-0	ORNL	SW Lowest Chronic Value – All Organisms	Not specified	0.708	
117-84-0	ORNL	EC25 Bass Population	Not specified	2.000	
117-84-0	ORNL	SW Lowest Chronic Value – Fish	Not specified	3.820	

Benchmark Values for Octyl Phthalate, di-N- in Surface Water

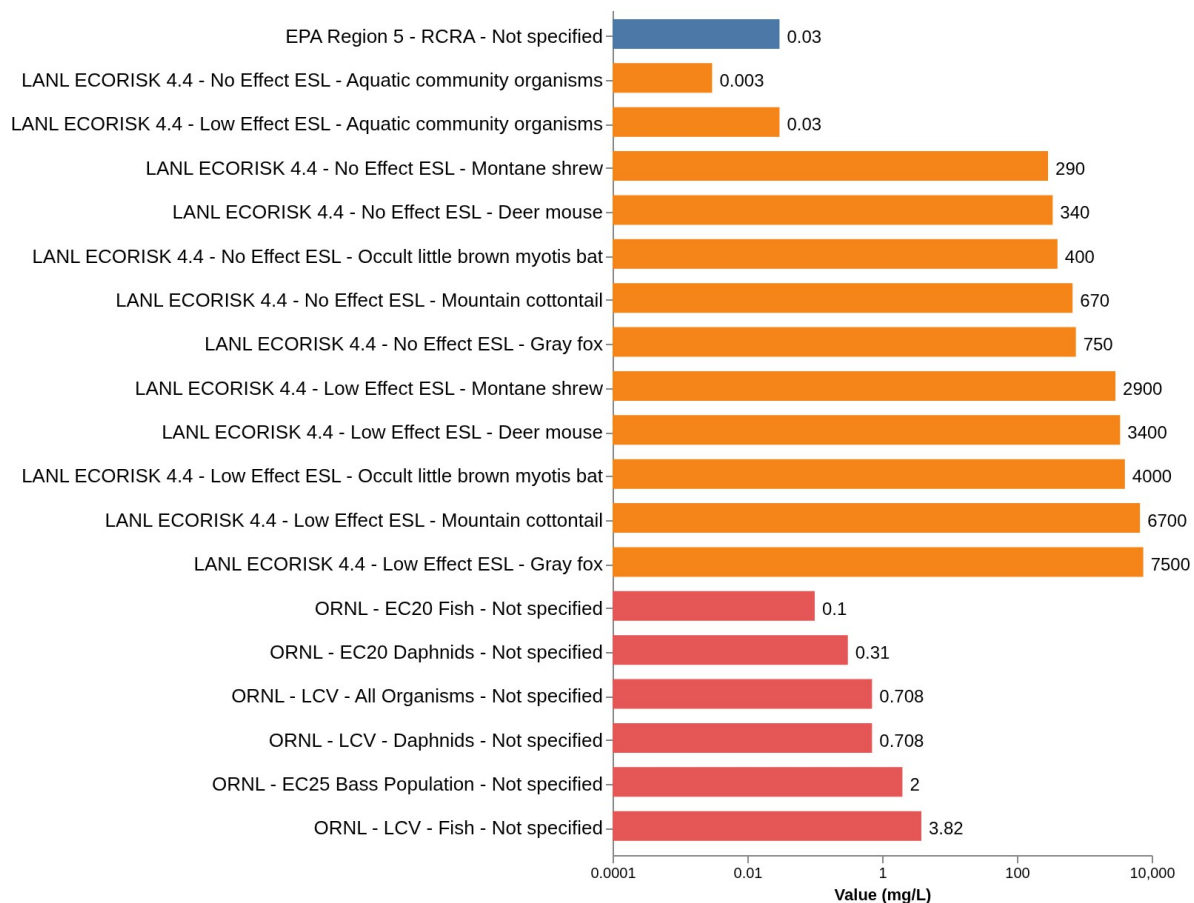


Table 408: Benchmark Values for Oxadiazon in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
19666-30-9	Florida	Freshwater and Marine Water Contaminant Cleanup	Not specified	0.044

Benchmark Values for Oxadiazon in Surface Water

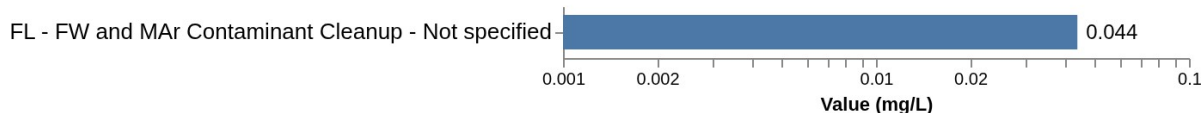


Table 409: Benchmark Values for Oxamyl in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
23135-22-0	Florida	Freshwater and Marine Water Contaminant Cleanup	Not specified	0.0085

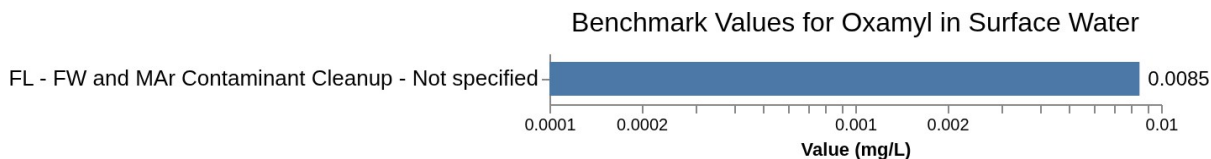


Table 410: Benchmark Values for Paraquat Dichloride in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
1910-42-5	Florida	Freshwater and Marine Water Contaminant Cleanup	Not specified	0.047

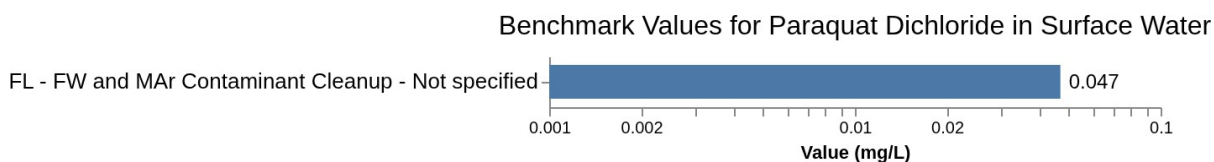


Table 411: Benchmark Values for Parathion in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
56-38-2	EPA Region 5	EPA RCRA Surface Water	Not specified	0.000013	
56-38-2	Florida	SWQS for Shellfish Propagation or Harvesting	Not specified	0.000040	
56-38-2	Illinois	Chronic – General Use	Not specified	0.000013	196
56-38-2	Illinois	Acute – General Use	Not specified	0.000065	196
56-38-2	Ohio	OMZA	Not specified	0.000013	192
56-38-2	Ohio	OMZM	Not specified	0.000065	192
56-38-2	Ohio	IMZM	Not specified	0.013000	192

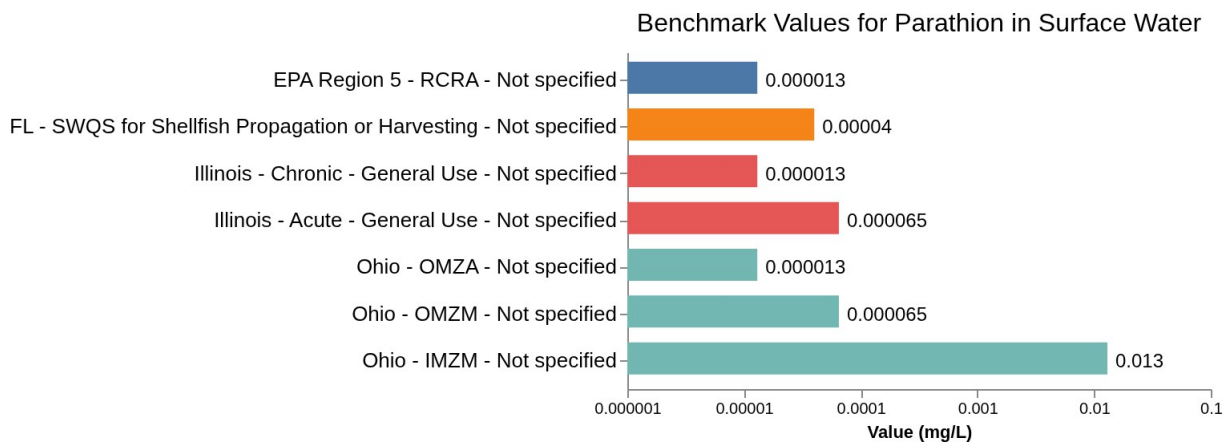


Table 412: Benchmark Values for Pebulate in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
1114-71-2	Florida	Freshwater and Marine Water Contaminant Cleanup	Not specified	0.31

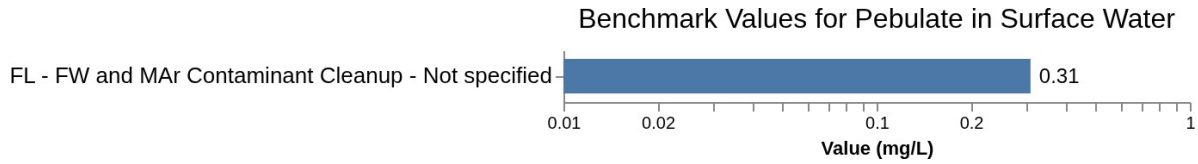


Table 413: Benchmark Values for PeCDD, 2,3,7,8- in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
36088-22-9	EPA Region 5	EPA RCRA Surface Water	Not specified	2.780000e-10

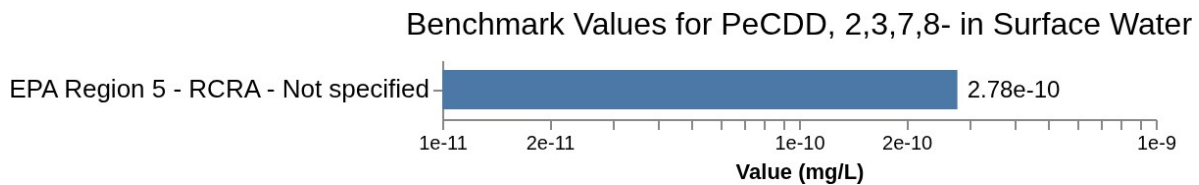


Table 414: Benchmark Values for Pendimethalin in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
40487-42-1	Florida	Freshwater and Marine Water Contaminant Cleanup	Not specified	0.01	
40487-42-1	Illinois	Chronic – General Use	Not specified	0.03	195
40487-42-1	Illinois	Acute – General Use	Not specified	0.35	195

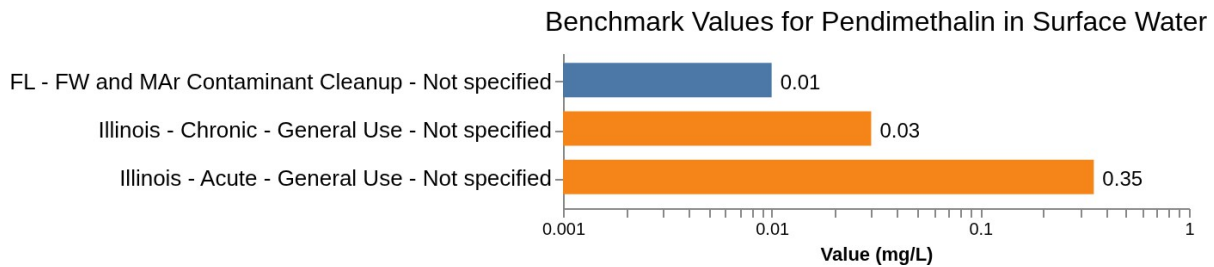


Table 415: Benchmark Values for Pentachlorobenzene in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
608-93-5	EPA Region 4	Freshwater and Saltwater Chronic Narcotic MOA	Aquatic only	0.001000	7
608-93-5	EPA Region 4	Freshwater and Saltwater Acute, Narcotic MOA	Aquatic only	0.011000	7
608-93-5	EPA Region 5	EPA RCRA Surface Water	Not specified	0.000019	
608-93-5	Illinois	Chronic – General Use	Not specified	0.002000	
608-93-5	Illinois	Acute – General Use	Not specified	0.025000	
608-93-5	ORNL	Tier II Secondary Chronic Value	Not specified	0.000470	
608-93-5	ORNL	Tier II Secondary Acute Value	Not specified	0.008400	

Benchmark Values for Pentachlorobenzene in Surface Water

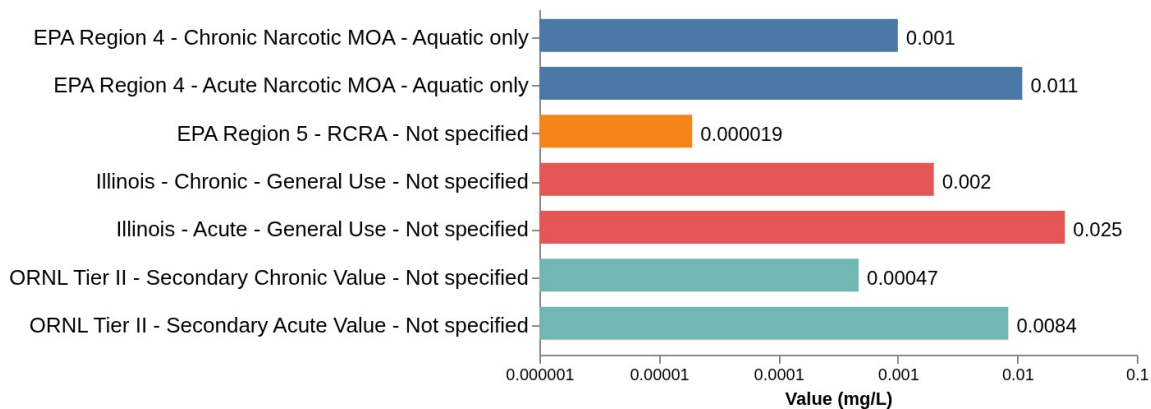


Table 416: Benchmark Values for Pentachloroethane in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
76-01-7	EPA Region 5	EPA RCRA Surface Water	Not specified	0.0564

Benchmark Values for Pentachloroethane in Surface Water

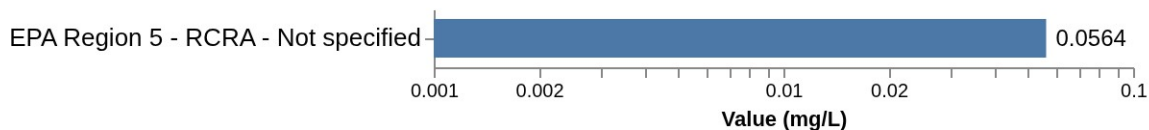


Table 417: Benchmark Values for Pentachloronitrobenzene in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
82-68-8	LANL ECORISK	Surface Water No Effect ESL	Aquatic community organisms	0.01
82-68-8	LANL ECORISK	Surface Water Low Effect ESL	Aquatic community organisms	0.10
82-68-8	LANL ECORISK	Surface Water No Effect ESL	Violet-green swallow	29.00
82-68-8	LANL ECORISK	Surface Water No Effect ESL	American robin	50.00
82-68-8	LANL ECORISK	Surface Water No Effect ESL	American kestrel	58.00
82-68-8	LANL ECORISK	Surface Water No Effect ESL	Montane shrew	290.00
82-68-8	LANL ECORISK	Surface Water Low Effect ESL	Violet-green swallow	290.00
82-68-8	LANL ECORISK	Surface Water No Effect ESL	Deer mouse	340.00
82-68-8	LANL ECORISK	Surface Water No Effect ESL	Occult little brown myotis bat	400.00
82-68-8	LANL ECORISK	Surface Water Low Effect ESL	American robin	500.00
82-68-8	LANL ECORISK	Surface Water Low Effect ESL	American kestrel	580.00
82-68-8	LANL ECORISK	Surface Water No Effect ESL	Mountain cottontail	670.00
82-68-8	LANL ECORISK	Surface Water No Effect ESL	Gray fox	750.00
82-68-8	LANL ECORISK	Surface Water Low Effect ESL	Montane shrew	2900.00
82-68-8	LANL ECORISK	Surface Water Low Effect ESL	Deer mouse	3400.00
82-68-8	LANL ECORISK	Surface Water Low Effect ESL	Occult little brown myotis bat	4000.00
82-68-8	LANL ECORISK	Surface Water Low Effect ESL	Mountain cottontail	6700.00
82-68-8	LANL ECORISK	Surface Water Low Effect ESL	Gray fox	7500.00

Benchmark Values for Pentachloronitrobenzene in Surface Water

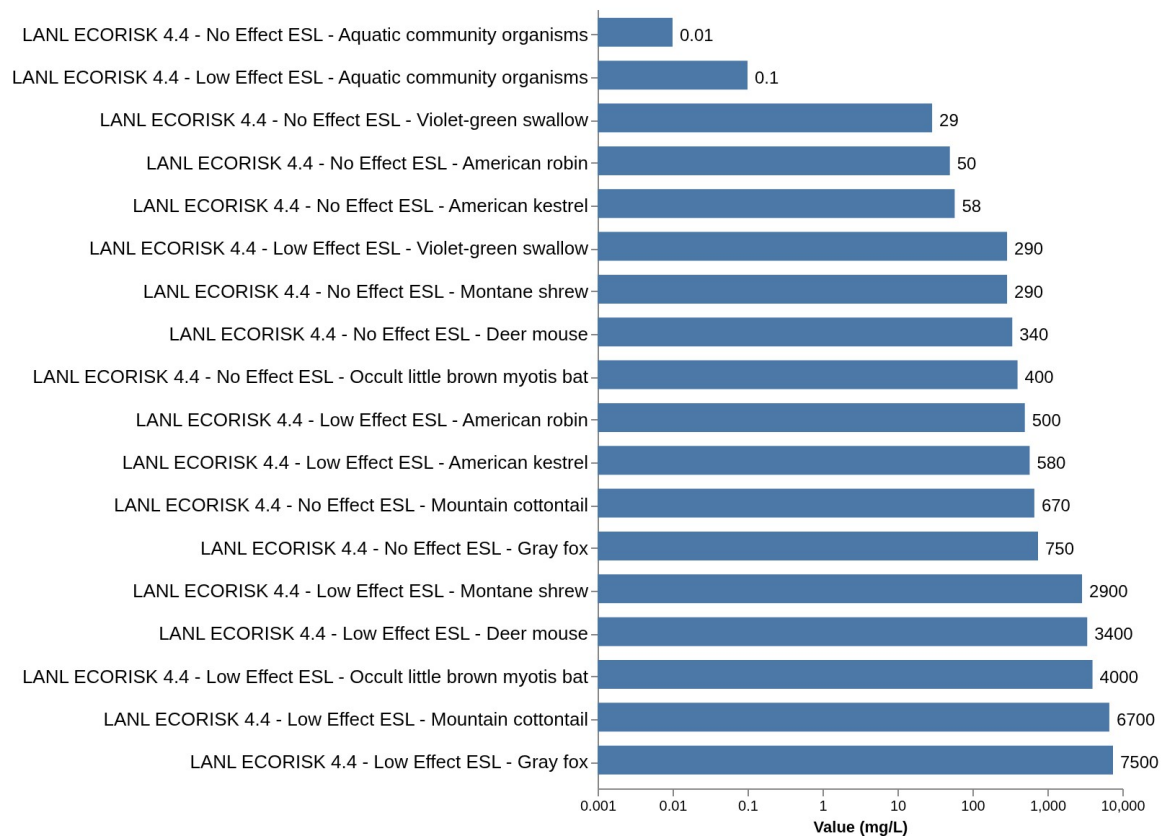


Table 418: Benchmark Values for Pentachlorophenol in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
87-86-5	EPA Region 5	EPA RCRA Surface Water	Not specified	0.0040	13
87-86-5	Florida	SWQS for Shellfish Propagation or Harvesting	Not specified	0.0079	
87-86-5	Illinois	Chronic – General Use	Not specified	0.0130	196, 198
87-86-5	Illinois	Acute – General Use	Not specified	0.0200	196, 198
87-86-5	LANL ECORISK	Surface Water No Effect ESL	Aquatic community organisms	0.0150	
87-86-5	LANL ECORISK	Surface Water Low Effect ESL	Aquatic community organisms	0.0190	
87-86-5	LANL ECORISK	Surface Water No Effect ESL	Montane shrew	1.0000	
87-86-5	LANL ECORISK	Surface Water No Effect ESL	Deer mouse	1.2000	
87-86-5	LANL ECORISK	Surface Water No Effect ESL	Occult little brown myotis bat	1.5000	
87-86-5	LANL ECORISK	Surface Water No Effect ESL	Mountain cottontail	2.4000	
87-86-5	LANL ECORISK	Surface Water No Effect ESL	Gray fox	2.7000	
87-86-5	LANL ECORISK	Surface Water Low Effect ESL	Montane shrew	10.0000	
87-86-5	LANL ECORISK	Surface Water Low Effect ESL	Deer mouse	12.0000	
87-86-5	LANL ECORISK	Surface Water No Effect ESL	Violet-green swallow	13.0000	
87-86-5	LANL ECORISK	Surface Water Low Effect ESL	Occult little brown myotis bat	15.0000	
87-86-5	LANL ECORISK	Surface Water No Effect ESL	American robin	23.0000	
87-86-5	LANL ECORISK	Surface Water Low Effect ESL	Mountain cottontail	24.0000	
87-86-5	LANL ECORISK	Surface Water Low Effect ESL	Gray fox	27.0000	
87-86-5	LANL ECORISK	Surface Water No Effect ESL	American kestrel	27.0000	
87-86-5	LANL ECORISK	Surface Water Low Effect ESL	Violet-green swallow	130.0000	
87-86-5	LANL ECORISK	Surface Water Low Effect ESL	American robin	230.0000	
87-86-5	LANL ECORISK	Surface Water Low Effect ESL	American kestrel	270.0000	
87-86-5	Ohio	OMZA	Not specified	0.0110	177

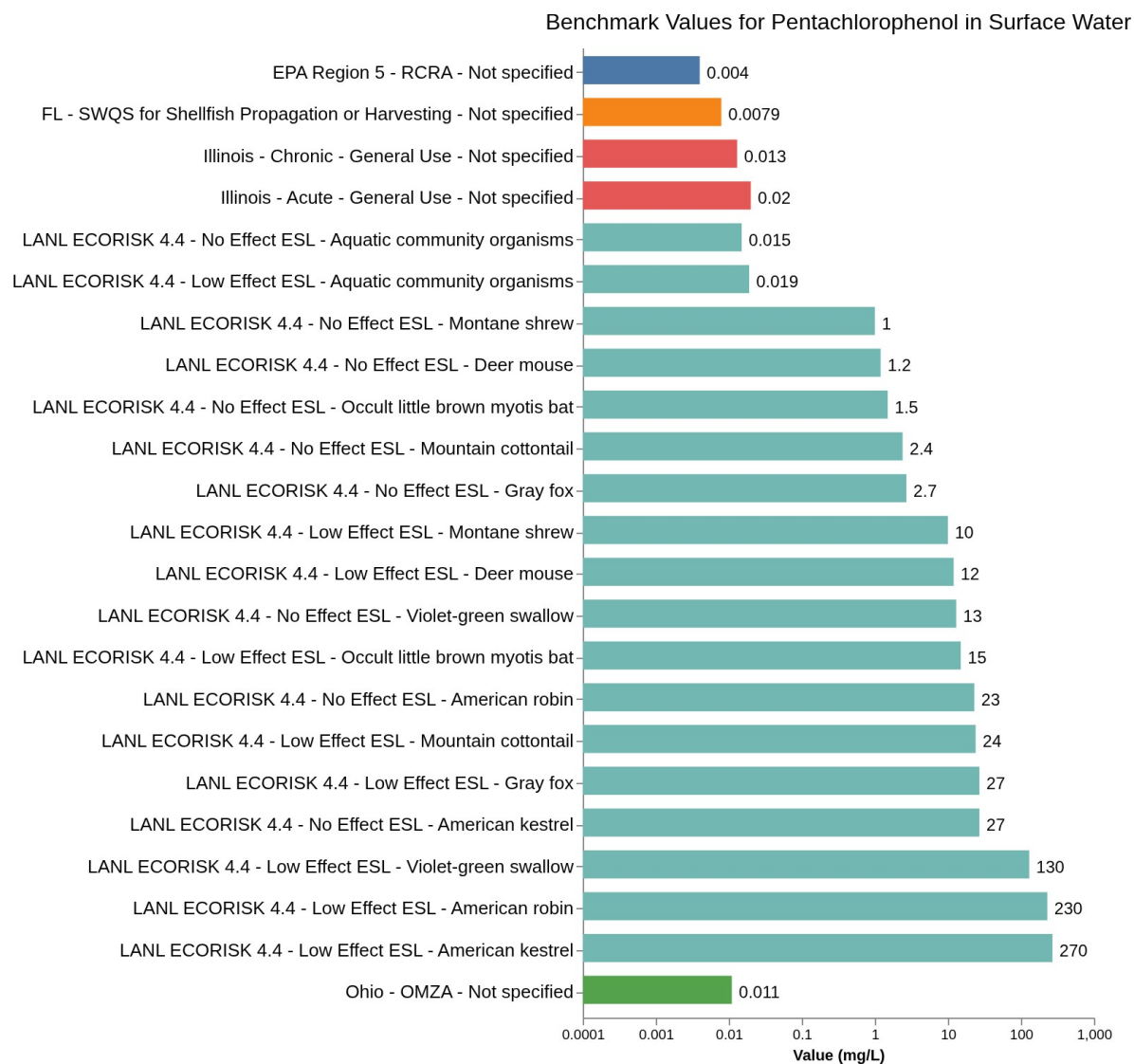


Table 419: Benchmark Values for Pentaerythritol tetranitrate (PETN) in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
78-11-5	LANL ECORISK	Surface Water No Effect ESL	Montane shrew	310.0
78-11-5	LANL ECORISK	Surface Water No Effect ESL	Deer mouse	360.0
78-11-5	LANL ECORISK	Surface Water No Effect ESL	Occult little brown myotis bat	440.0
78-11-5	LANL ECORISK	Surface Water No Effect ESL	Mountain cottontail	720.0
78-11-5	LANL ECORISK	Surface Water No Effect ESL	Gray fox	810.0
78-11-5	LANL ECORISK	Surface Water Low Effect ESL	Montane shrew	3100.0
78-11-5	LANL ECORISK	Surface Water Low Effect ESL	Deer mouse	3600.0
78-11-5	LANL ECORISK	Surface Water Low Effect ESL	Occult little brown myotis bat	4400.0
78-11-5	LANL ECORISK	Surface Water Low Effect ESL	Mountain cottontail	7200.0
78-11-5	LANL ECORISK	Surface Water Low Effect ESL	Gray fox	8100.0

Benchmark Values for Pentaerythritol tetranitrate (PETN) in Surface Water

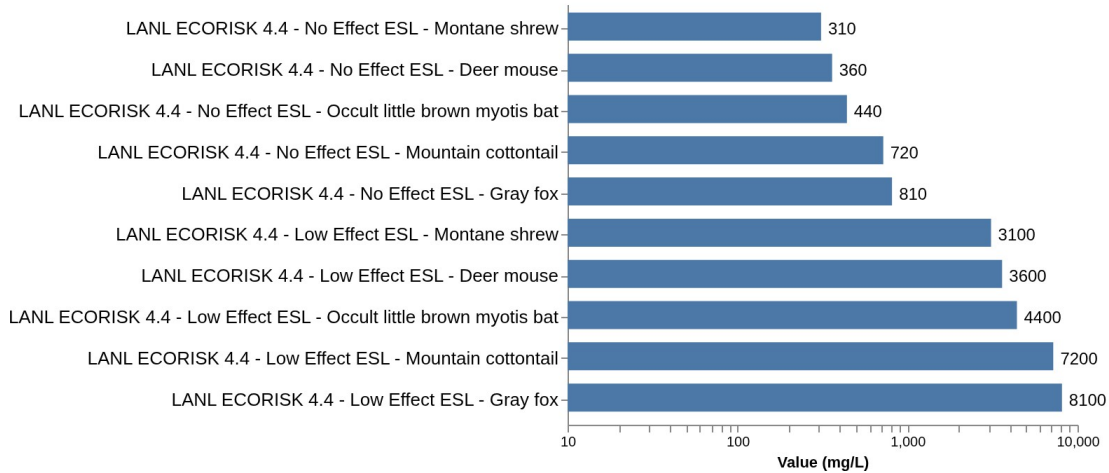


Table 420: Benchmark Values for Pentane, n- in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
109-66-0	Illinois	Chronic – General Use	Not specified	0.011	195
109-66-0	Illinois	Acute – General Use	Not specified	0.130	195

Benchmark Values for Pentane, n- in Surface Water

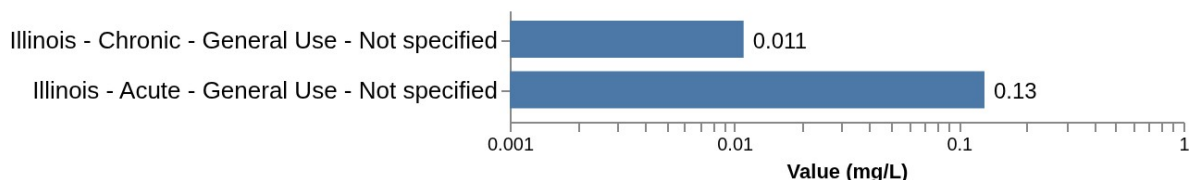


Table 421: Benchmark Values for Pentyl Alcohol, N- in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
71-41-0	EPA Region 4	Freshwater and Saltwater Chronic Narcotic MOA	Not specified	12.637	
71-41-0	EPA Region 4	Freshwater and Saltwater Acute, Narcotic MOA	Not specified	44.404	
71-41-0	ORNL	Tier II Secondary Chronic Value	Not specified	0.110	
71-41-0	ORNL	Tier II Secondary Acute Value	Not specified	2.000	
71-41-0	ORNL	EC25 Bass Population	Not specified	3.550	
71-41-0	ORNL	EC20 Fish	Not specified	15.200	29
71-41-0	ORNL	SW Lowest Chronic Value – All Organisms	Not specified	30.493	24
71-41-0	ORNL	SW Lowest Chronic Value – Fish	Not specified	30.500	24

Benchmark Values for Pentyl Alcohol, N- in Surface Water

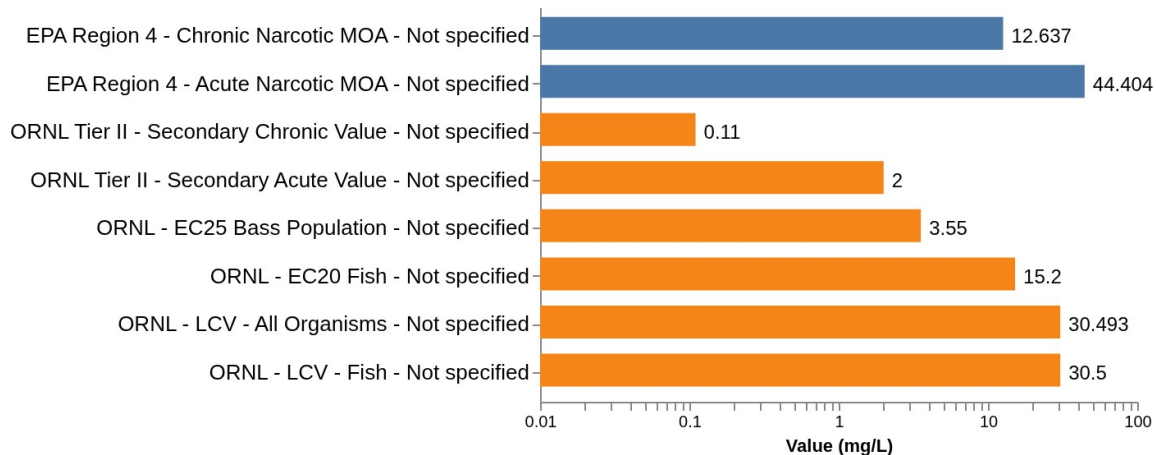


Table 422: Benchmark Values for Peracetic acid in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
79-21-0	Illinois	Acute – General Use	Not specified	0.16	
79-21-0	Illinois	Chronic – General Use	Not specified	0.34	

Benchmark Values for Peracetic acid in Surface Water

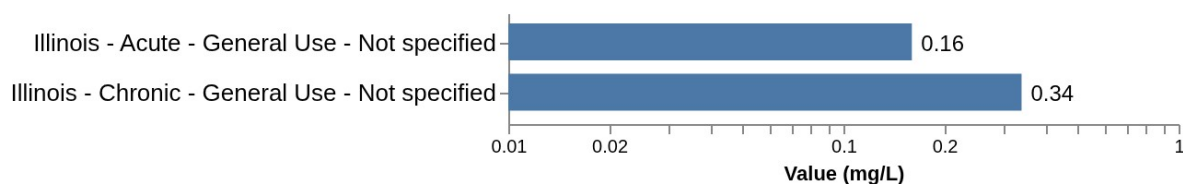


Table 423: Benchmark Values for Perchlorate and Perchlorate Salts in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
14797-73-0	LANL ECORISK	Surface Water No Effect ESL	Montane shrew	35.0
14797-73-0	LANL ECORISK	Surface Water No Effect ESL	Deer mouse	41.0
14797-73-0	LANL ECORISK	Surface Water No Effect ESL	Occult little brown myotis bat	49.0
14797-73-0	LANL ECORISK	Surface Water No Effect ESL	Mountain cottontail	80.0
14797-73-0	LANL ECORISK	Surface Water No Effect ESL	Gray fox	91.0
14797-73-0	LANL ECORISK	Surface Water Low Effect ESL	Montane shrew	120.0
14797-73-0	LANL ECORISK	Surface Water Low Effect ESL	Deer mouse	140.0
14797-73-0	LANL ECORISK	Surface Water Low Effect ESL	Occult little brown myotis bat	170.0
14797-73-0	LANL ECORISK	Surface Water Low Effect ESL	Mountain cottontail	290.0
14797-73-0	LANL ECORISK	Surface Water Low Effect ESL	Gray fox	330.0
14797-73-0	LANL ECORISK	Surface Water No Effect ESL	Violet-green swallow	1000.0
14797-73-0	LANL ECORISK	Surface Water No Effect ESL	American robin	1800.0
14797-73-0	LANL ECORISK	Surface Water No Effect ESL	American kestrel	2100.0
14797-73-0	LANL ECORISK	Surface Water Low Effect ESL	Violet-green swallow	10000.0
14797-73-0	LANL ECORISK	Surface Water Low Effect ESL	American robin	18000.0
14797-73-0	LANL ECORISK	Surface Water Low Effect ESL	American kestrel	21000.0

Benchmark Values for Perchlorate and Perchlorate Salts in Surface Water

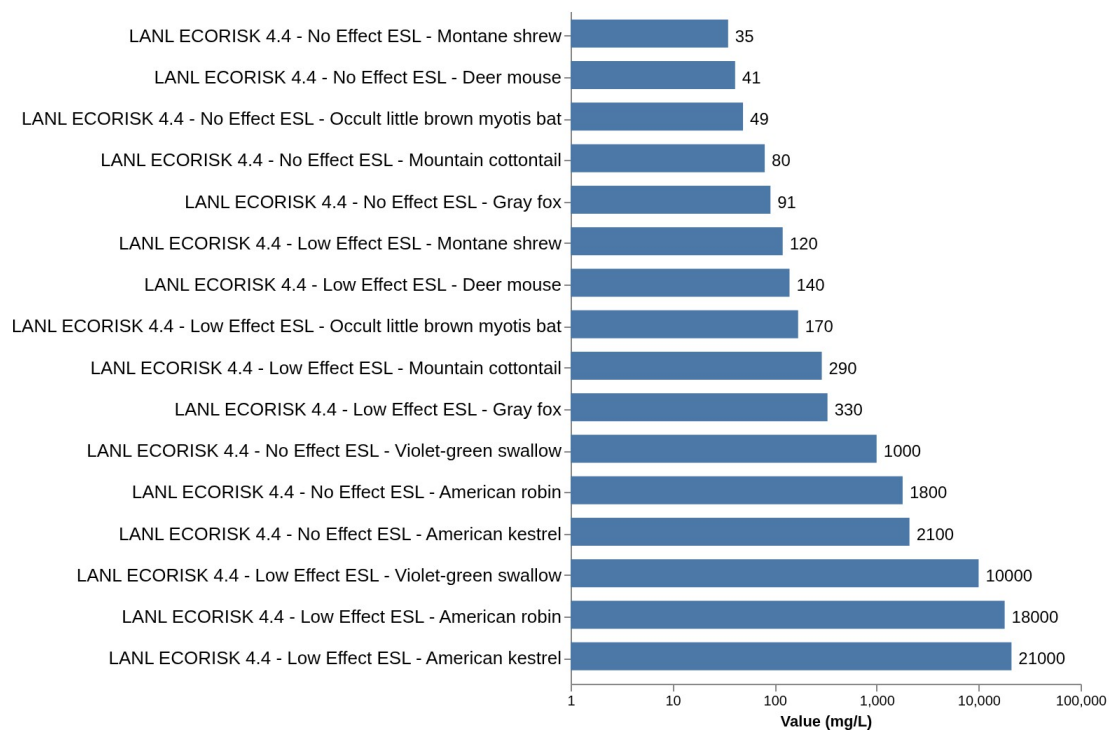


Table 424: Benchmark Values for Permethrin in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
52645-53-1	Florida	Freshwater and Marine Water Contaminant Cleanup	Not specified	0.000001
52645-53-1	Illinois	Chronic – General Use	Not specified	0.000024
52645-53-1	Illinois	Acute – General Use	Not specified	0.000150

Benchmark Values for Permethrin in Surface Water

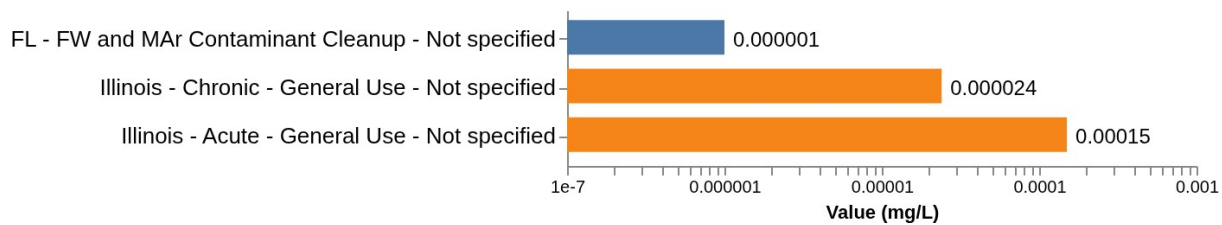


Table 425: Benchmark Values for Perylene in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
198-55-0	EPA ESBs	Final Chronic Value	Not specified	0.000901
198-55-0	EPA Region 4	Freshwater and Saltwater Chronic for PAHs	Not specified	0.000900
198-55-0	EPA Region 4	Freshwater and Saltwater Acute for PAHs	Not specified	0.001900

Benchmark Values for Perylene in Surface Water

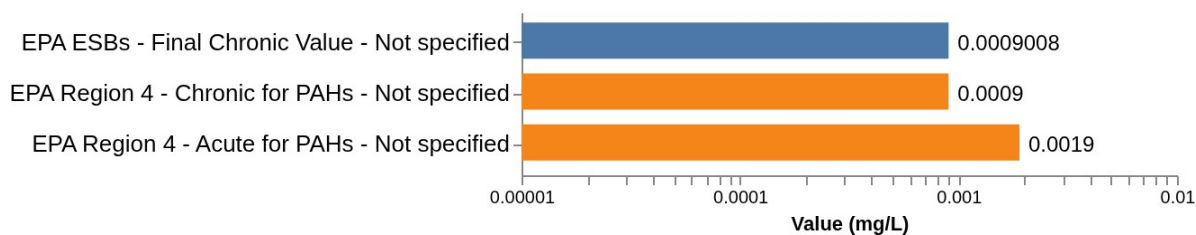


Table 426: Benchmark Values for Phenanthrene in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
85-01-8	EPA ESBs	Final Chronic Value	Not specified	0.01913	
85-01-8	EPA Region 4	Freshwater and Saltwater Chronic for PAHs	Not specified	0.01900	7
85-01-8	EPA Region 4	Freshwater and Saltwater Acute for PAHs	Not specified	0.04000	7
85-01-8	EPA Region 5	EPA RCRA Surface Water	Not specified	0.00360	
85-01-8	Illinois	Chronic – General Use	Not specified	0.00370	
85-01-8	Illinois	Acute – General Use	Not specified	0.04600	
85-01-8	LANL ECORISK	Surface Water No Effect ESL	Aquatic community organisms	0.00630	
85-01-8	LANL ECORISK	Surface Water Low Effect ESL	Aquatic community organisms	0.03000	
85-01-8	LANL ECORISK	Surface Water No Effect ESL	Montane shrew	23.00000	
85-01-8	LANL ECORISK	Surface Water No Effect ESL	Deer mouse	27.00000	
85-01-8	LANL ECORISK	Surface Water No Effect ESL	Occult little brown myotis bat	32.00000	
85-01-8	LANL ECORISK	Surface Water No Effect ESL	Mountain cottontail	52.00000	
85-01-8	LANL ECORISK	Surface Water No Effect ESL	Gray fox	59.00000	
85-01-8	LANL ECORISK	Surface Water Low Effect ESL	Montane shrew	230.00000	
85-01-8	LANL ECORISK	Surface Water Low Effect ESL	Deer mouse	270.00000	
85-01-8	LANL ECORISK	Surface Water Low Effect ESL	Occult little brown myotis bat	320.00000	
85-01-8	LANL ECORISK	Surface Water Low Effect ESL	Mountain cottontail	520.00000	
85-01-8	LANL ECORISK	Surface Water Low Effect ESL	Gray fox	590.00000	
85-01-8	ORNL	EC20 Daphnids	Not specified	0.11000	
85-01-8	ORNL	SW Lowest Chronic Value – Daphnids	Not specified	0.20000	
85-01-8	ORNL	SW Lowest Chronic Value – All Organisms	Not specified	0.20000	

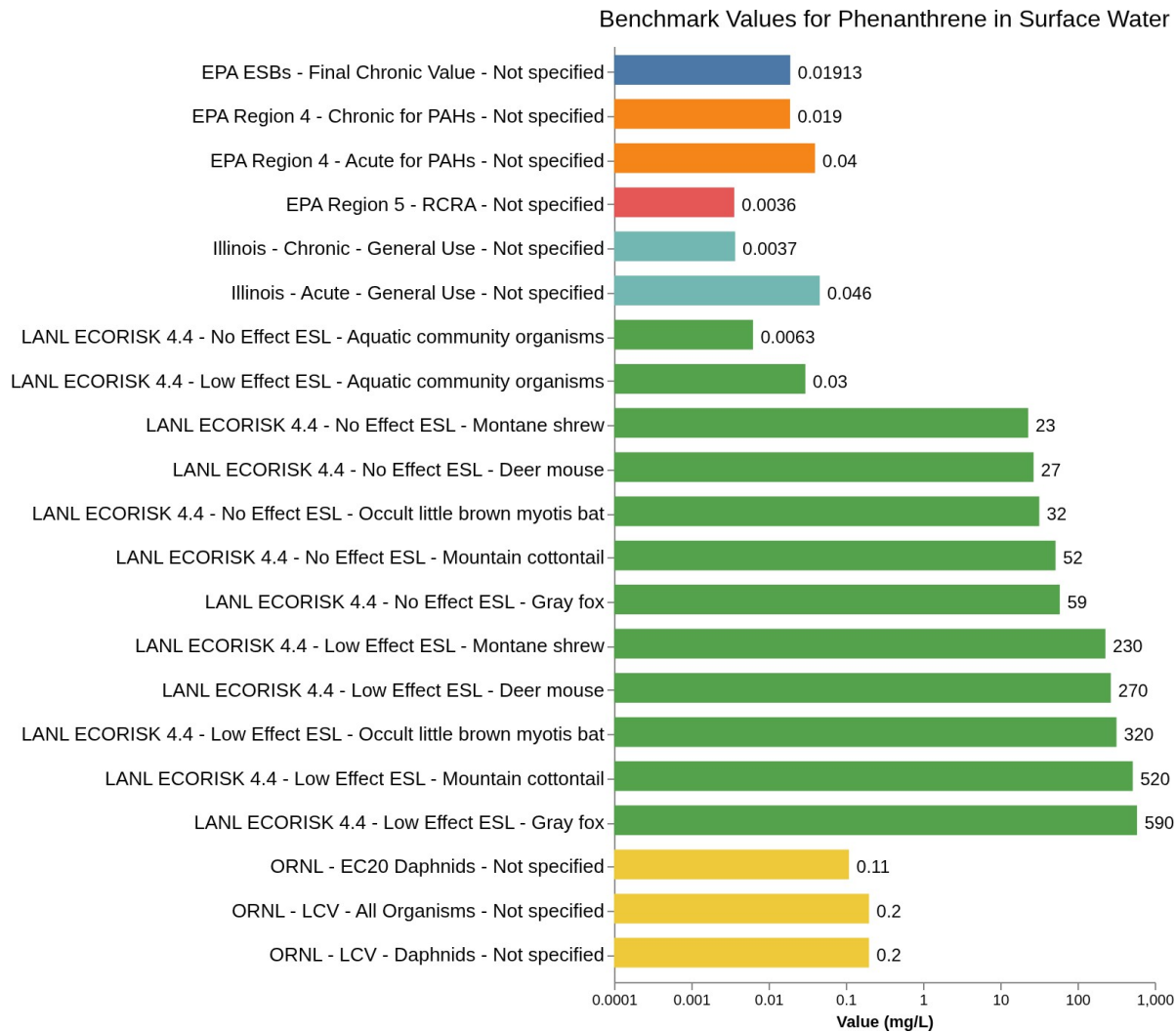


Table 427: Benchmark Values for Phenanthrene/anthracenes, C1– in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
000000–13–1	EPA ESBs	Final Chronic Value	Not specified	0.007436
000000–13–1	EPA Region 4	Freshwater and Saltwater Chronic for PAHs	Not specified	0.007400
000000–13–1	EPA Region 4	Freshwater and Saltwater Acute for PAHs	Not specified	0.016000

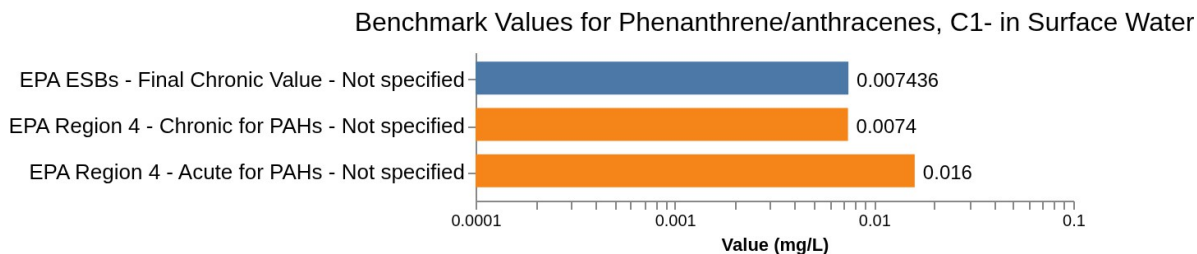


Table 428: Benchmark Values for Phenanthrene/anthracenes, C2- in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
000000-13-2	EPA ESBs	Final Chronic Value	Not specified	0.003199
000000-13-2	EPA Region 4	Freshwater and Saltwater Chronic for PAHs	Not specified	0.003200
000000-13-2	EPA Region 4	Freshwater and Saltwater Acute for PAHs	Not specified	0.006700

Benchmark Values for Phenanthrene/anthracenes, C2- in Surface Water

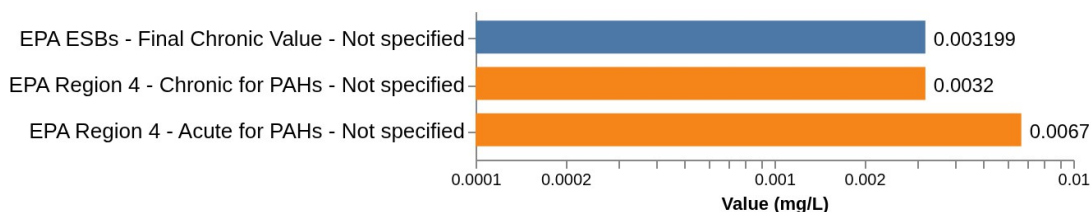


Table 429: Benchmark Values for Phenanthrene/anthracenes, C3- in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
000000-13-3	EPA ESBs	Final Chronic Value	Not specified	0.001256
000000-13-3	EPA Region 4	Freshwater and Saltwater Chronic for PAHs	Not specified	0.001300
000000-13-3	EPA Region 4	Freshwater and Saltwater Acute for PAHs	Not specified	0.002600

Benchmark Values for Phenanthrene/anthracenes, C3- in Surface Water

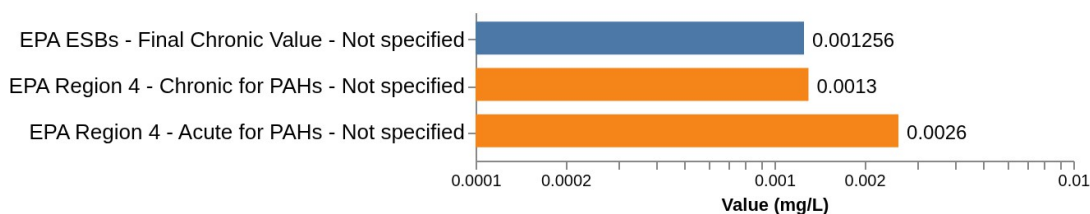
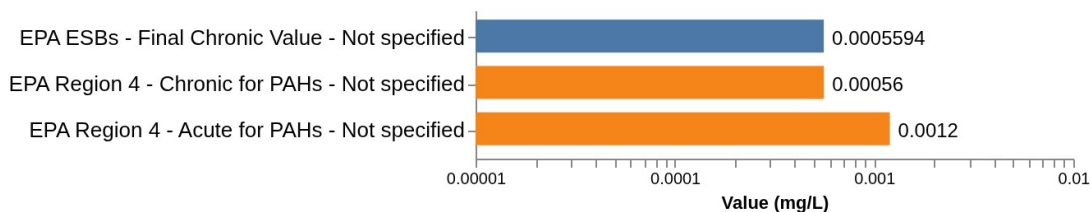
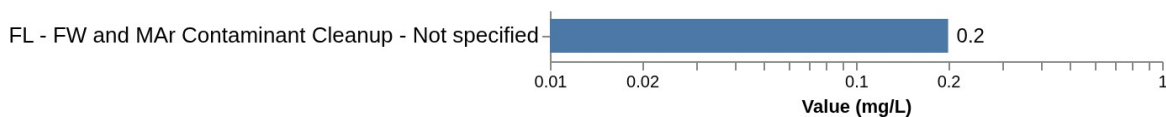


Table 430: Benchmark Values for Phenanthrene/anthracenes, C4- in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
000000-13-4	EPA ESBs	Final Chronic Value	Not specified	0.000559
000000-13-4	EPA Region 4	Freshwater and Saltwater Chronic for PAHs	Not specified	0.000560
000000-13-4	EPA Region 4	Freshwater and Saltwater Acute for PAHs	Not specified	0.001200

Benchmark Values for Phenanthrene/anthracenes, C4- in Surface Water**Table 431: Benchmark Values for Phenmedipham in Surface Water**

CAS	Source	Benchmark	Organism	Value (mg/L)
13684-63-4	Florida	Freshwater and Marine Water Contaminant Cleanup	Not specified	0.2

Benchmark Values for Phenmedipham in Surface Water**Table 432: Benchmark Values for Phenol, 2-(1-methylethoxy)-, methylcarbamate in Surface Water**

CAS	Source	Benchmark	Organism	Value (mg/L)
114-26-1	Florida	Freshwater and Marine Water Contaminant Cleanup	Not specified	0.0004

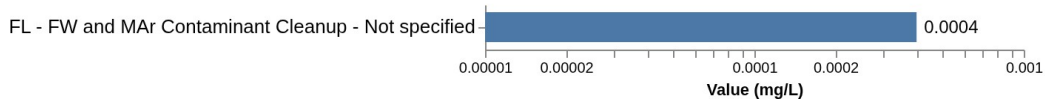
Benchmark Values for Phenol, 2-(1-methylethoxy)-, methylcarbamate in Surface Water

Table 433: Benchmark Values for Phenol in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
108-95-2	EPA Region 5	EPA RCRA Surface Water	Not specified	0.1800	
108-95-2	Florida	Freshwater and Marine Water Contaminant Cleanup	Not specified	0.0065	
108-95-2	Florida	SWQS for Shellfish Propagation or Harvesting	Not specified	0.3000	
108-95-2	LANL ECORISK	Surface Water No Effect ESL	Aquatic community organisms	0.3200	
108-95-2	LANL ECORISK	Surface Water Low Effect ESL	Aquatic community organisms	3.2000	
108-95-2	LANL ECORISK	Surface Water No Effect ESL	Montane shrew	260.0000	
108-95-2	LANL ECORISK	Surface Water No Effect ESL	Deer mouse	310.0000	
108-95-2	LANL ECORISK	Surface Water No Effect ESL	Occult little brown myotis bat	370.0000	
108-95-2	LANL ECORISK	Surface Water No Effect ESL	Mountain cottontail	610.0000	
108-95-2	LANL ECORISK	Surface Water No Effect ESL	Gray fox	690.0000	
108-95-2	LANL ECORISK	Surface Water Low Effect ESL	Montane shrew	2600.0000	
108-95-2	LANL ECORISK	Surface Water Low Effect ESL	Deer mouse	3100.0000	
108-95-2	LANL ECORISK	Surface Water Low Effect ESL	Occult little brown myotis bat	3700.0000	
108-95-2	LANL ECORISK	Surface Water Low Effect ESL	Mountain cottontail	6100.0000	
108-95-2	LANL ECORISK	Surface Water Low Effect ESL	Gray fox	6900.0000	
108-95-2	ORNL	SW Lowest Chronic Value – All Organisms	Not specified	0.2000	23
108-95-2	ORNL	SW Lowest Chronic Value – Fish	Not specified	0.2000	23
108-95-2	ORNL	EC20 Fish	Not specified	0.2300	23
108-95-2	ORNL	SW Lowest Chronic Value – Daphnids	Not specified	2.0100	24
108-95-2	ORNL	EC25 Bass Population	Not specified	4.4700	
108-95-2	ORNL	SW Lowest Chronic Value – Aquatic Plants	Not specified	20.0000	

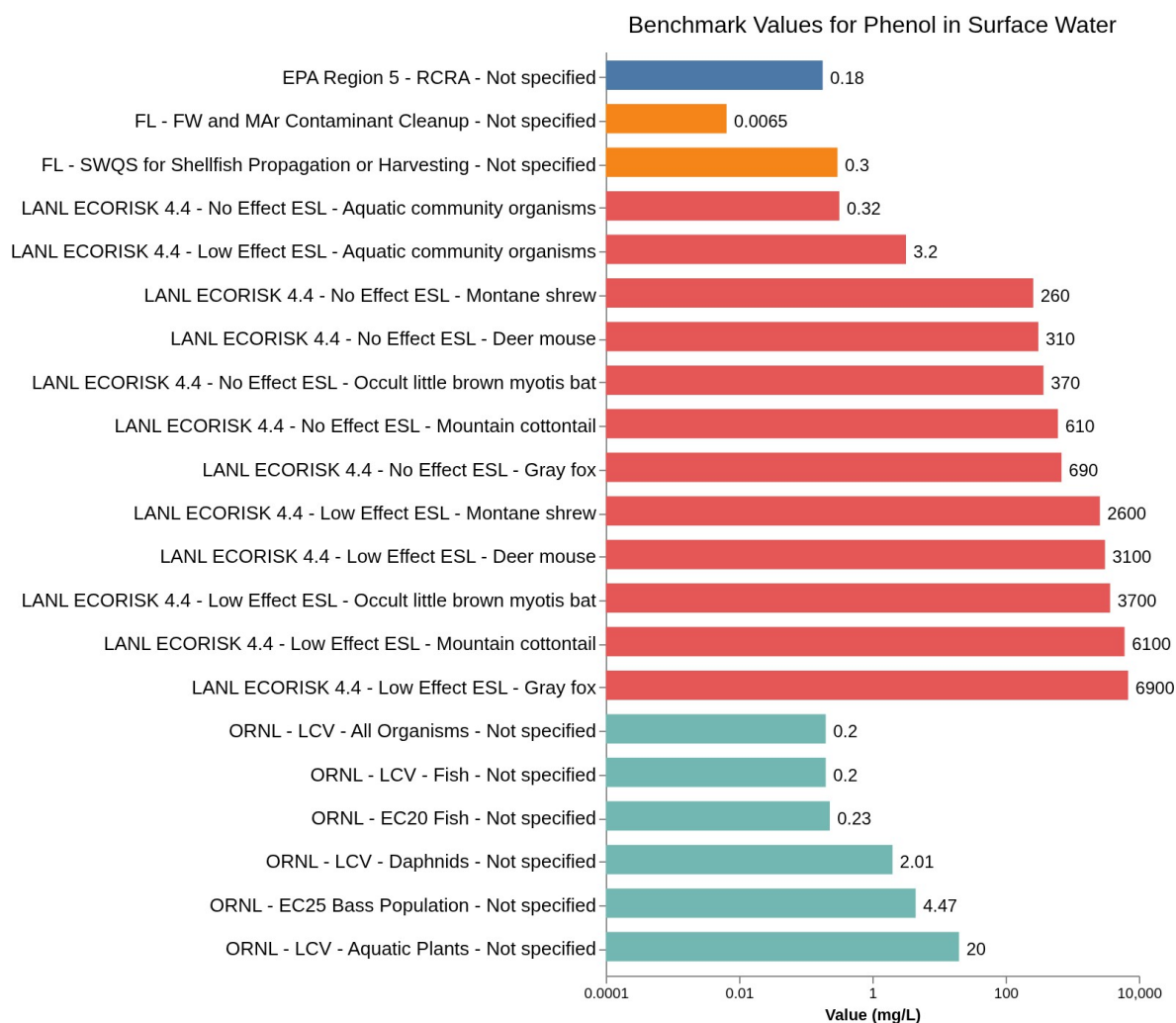


Table 434: Benchmark Values for Phenols (total) in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
000000-17-5	Canada	Water Livestock	Not specified	0.002

Benchmark Values for Phenols (total) in Surface Water

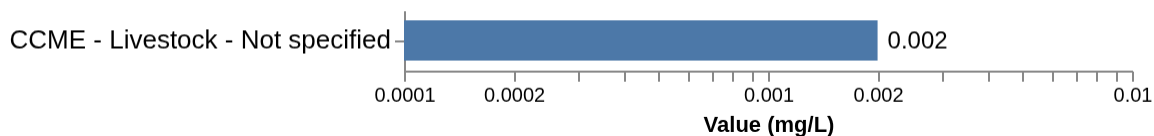


Table 435: Benchmark Values for Phenoxy herbicides in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
000000-16-8	Canada	Water Livestock	Not specified	0.1

Benchmark Values for Phenoxy herbicides in Surface Water

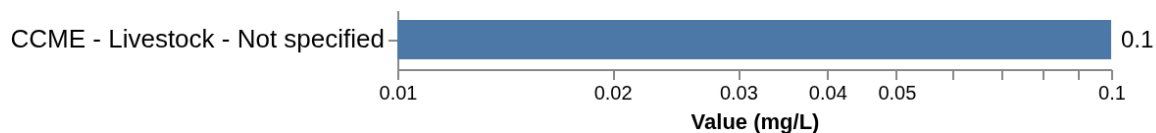


Table 436: Benchmark Values for Phenyl phenol, p- in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
92-69-3	Illinois	Chronic – General Use	Not specified	0.019
92-69-3	Illinois	Acute – General Use	Not specified	0.230

Benchmark Values for Phenyl phenol, p- in Surface Water

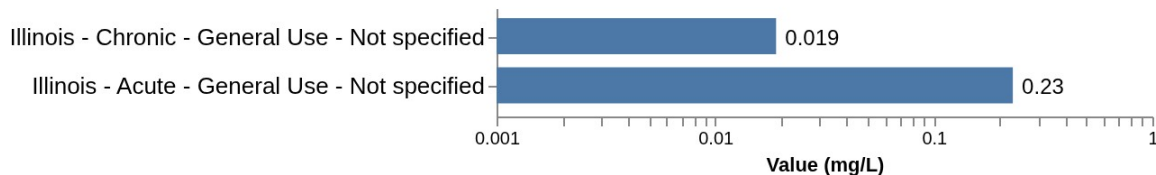


Table 437: Benchmark Values for Phenyl-3-pyrazolidinone, 1- in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
92-43-3	Illinois	Chronic – General Use	Not specified	0.025	195
92-43-3	Illinois	Acute – General Use	Not specified	0.320	195

Benchmark Values for Phenyl-3-pyrazolidinone, 1- in Surface Water

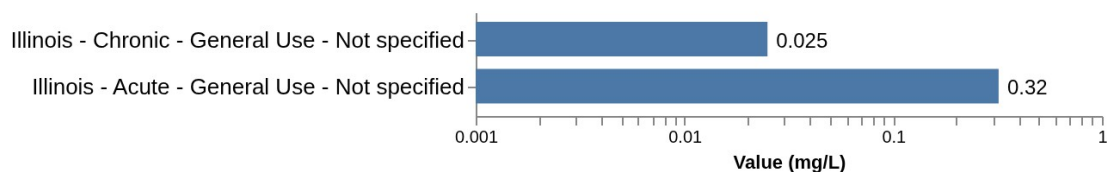


Table 438: Benchmark Values for Phenylphenol, 2- in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
90-43-7	Florida	Freshwater and Marine Water Contaminant Cleanup	Not specified	0.036
90-43-7	Illinois	Chronic – General Use	Not specified	0.019
90-43-7	Illinois	Acute – General Use	Not specified	0.230

Benchmark Values for Phenylphenol, 2- in Surface Water

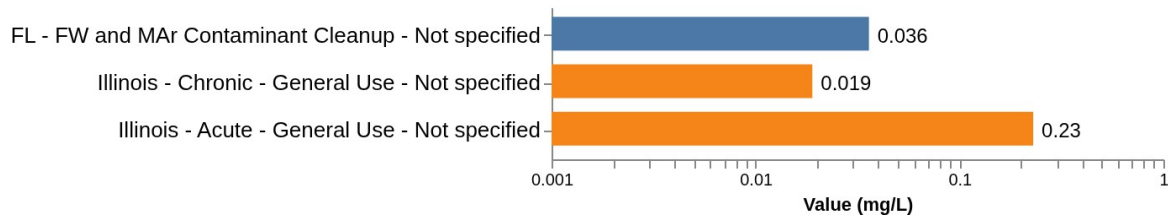


Table 439: Benchmark Values for Phorate in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
298-02-2	EPA Region 5	EPA RCRA Surface Water	Not specified	0.003620
298-02-2	Florida	Freshwater and Marine Water Contaminant Cleanup	Not specified	0.000005

Benchmark Values for Phorate in Surface Water

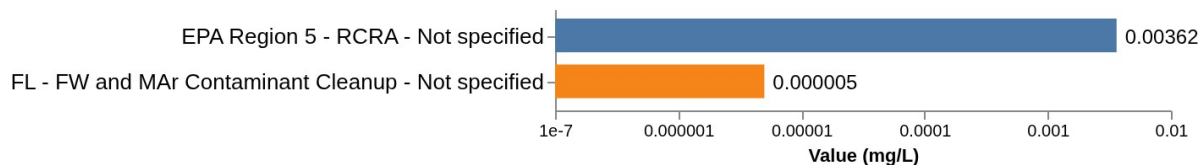


Table 440: Benchmark Values for Phosmet in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
732-11-6	Florida	Freshwater and Marine Water Contaminant Cleanup	Not specified	0.0001

Benchmark Values for Phosmet in Surface Water

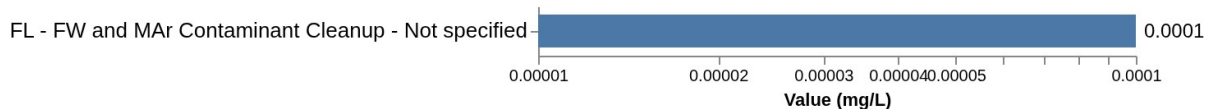


Table 441: Benchmark Values for Phosphorus (total) in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
000000-06-3	Florida	SWQS for Shellfish Propagation or Harvesting	Not specified	0.0001

Benchmark Values for Phosphorus (total) in Surface Water

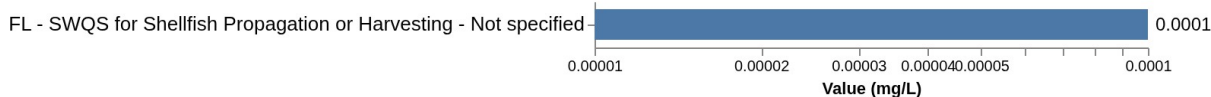


Table 442: Benchmark Values for Picloram in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
1918-02-1	Florida	Freshwater and Marine Water Contaminant Cleanup	Not specified	0.07

Benchmark Values for Picloram in Surface Water

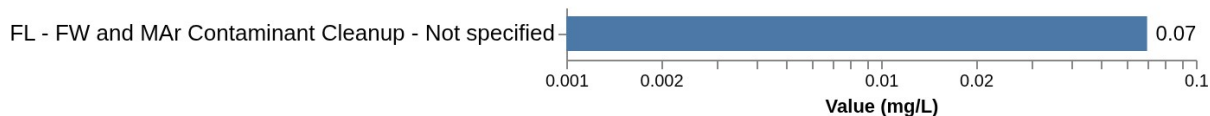


Table 443: Benchmark Values for Picramic Acid (2-Amino-4,6-dinitrophenol) in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
96-91-3	Illinois	Chronic – General Use	Not specified	0.4	195
96-91-3	Illinois	Acute – General Use	Not specified	4.6	195

Benchmark Values for Picramic Acid (2-Amino-4,6-dinitrophenol) in Surface Water

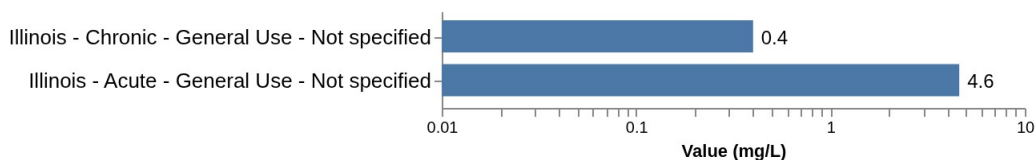


Table 444: Benchmark Values for Picric Acid (2,4,6-Trinitrophenol) in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
88-89-1	Illinois	Chronic – General Use	Not specified	0.7
88-89-1	Illinois	Acute – General Use	Not specified	8.8

Benchmark Values for Picric Acid (2,4,6-Trinitrophenol) in Surface Water

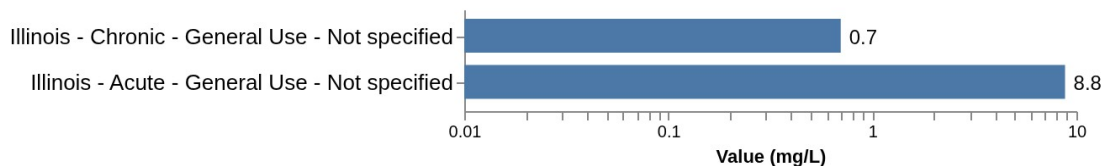


Table 445: Benchmark Values for Piperazine, 1-(2-aminoethyl) in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
140-31-8	Illinois	Chronic – General Use	Not specified	18.0	195
140-31-8	Illinois	Acute – General Use	Not specified	220.0	195

Benchmark Values for Piperazine, 1-(2-aminoethyl) in Surface Water

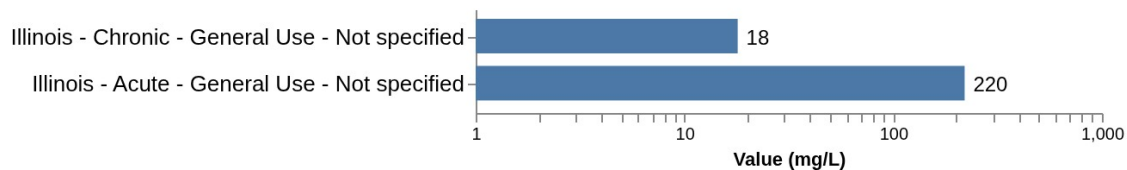


Table 446: Benchmark Values for Polychlorinated Biphenyls (high risk) in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
1336-36-3	EPA Region 5	EPA RCRA Surface Water	Not specified	1.200000e-07	
1336-36-3	ORNL	SW Lowest Chronic Value – All Organisms	Not specified	1.000000e-04	
1336-36-3	ORNL	Tier II Secondary Chronic Value	Not specified	1.400000e-04	27
1336-36-3	ORNL	SW Lowest Chronic Value – Aquatic Plants	Not specified	1.440000e-04	
1336-36-3	ORNL	SW Lowest Chronic Value – Fish	Not specified	2.000000e-04	
1336-36-3	ORNL	EC20 Fish	Not specified	4.000000e-04	
1336-36-3	ORNL	EC25 Bass Population	Not specified	6.300000e-04	
1336-36-3	ORNL	SW Lowest Chronic Value – Non-Daphnid Inverts	Not specified	8.000000e-04	
1336-36-3	ORNL	EC20 Daphnids	Not specified	1.200000e-03	31
1336-36-3	ORNL	SW Lowest Chronic Value – Daphnids	Not specified	2.100000e-03	

Benchmark Values for Polychlorinated Biphenyls (high risk) in Surface Water

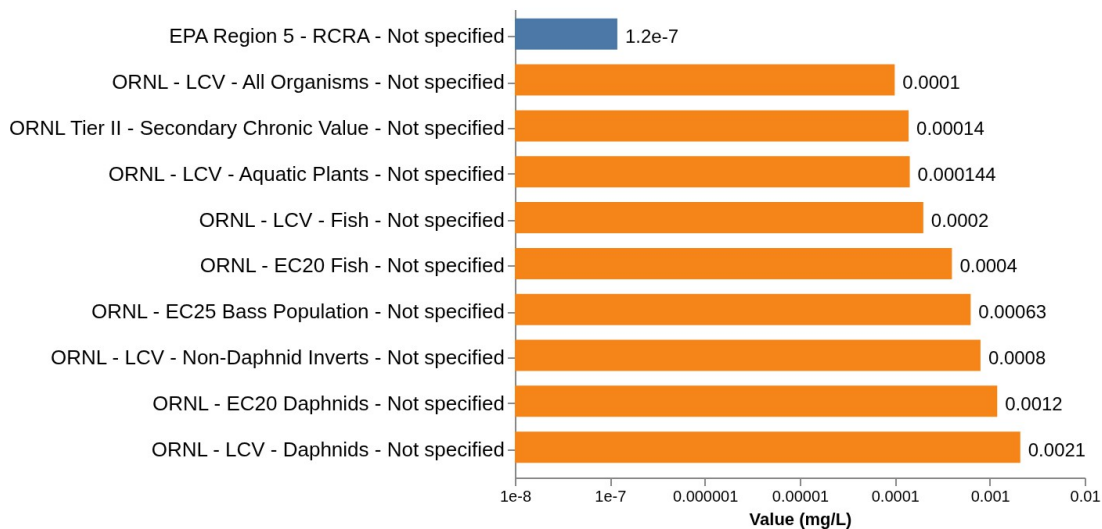


Table 447: Benchmark Values for Polychlorinated Biphenyls (PCBs) in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
000000-17-0	British Columbia	Irrigation STA	Not specified	5.000000e-04	
000000-17-0	Florida	SWQS for Shellfish Propagation or Harvesting	Not specified	4.500000e-08	
000000-17-0	Ohio	OMZA Lake Erie Drainage Basin	Not specified	1.200000e-07	192
000000-17-0	Ohio	OMZA Ohio River Drainage Basin	Not specified	1.000000e-06	180, 192

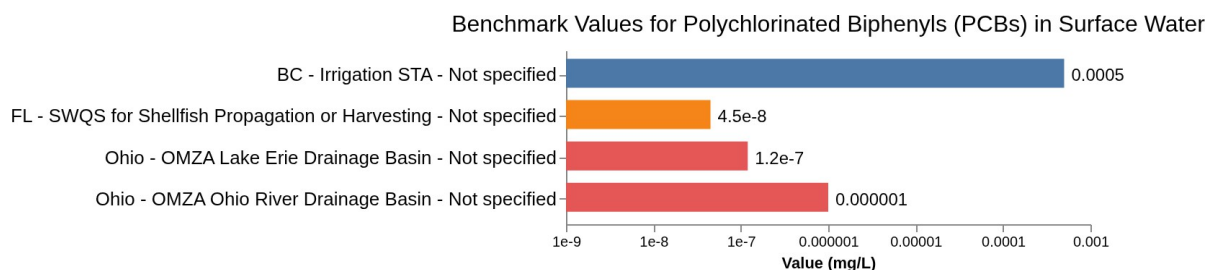


Table 448: Benchmark Values for Polycyclic aromatic hydrocarbons (PAH), Total in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
000000-04-1	Florida	SWQS for Shellfish Propagation or Harvesting	Not specified	0.000031

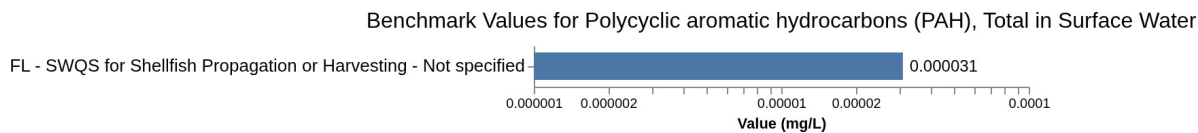


Table 449: Benchmark Values for Potassium Cyanide in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
151-50-8	Florida	Freshwater and Marine Water Contaminant Cleanup	Not specified	0.0055

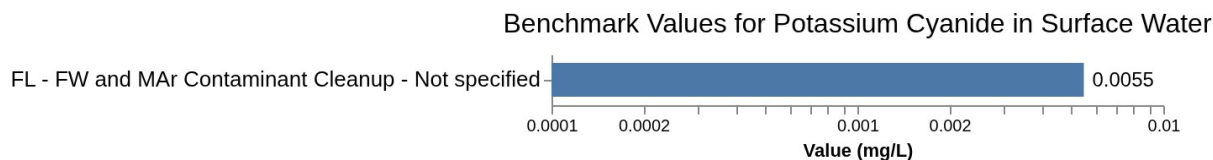


Table 450: Benchmark Values for Potassium in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
7440-09-7	ORNL	SW Lowest Chronic Value – All Organisms	Not specified	53.0
7440-09-7	ORNL	SW Lowest Chronic Value – Daphnids	Not specified	53.0

Benchmark Values for Potassium in Surface Water

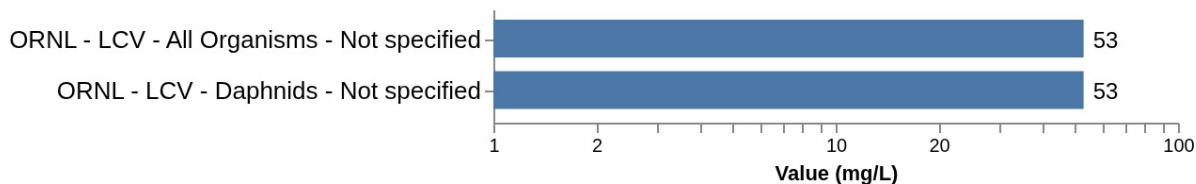


Table 451: Benchmark Values for Prometon in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
1610-18-0	Florida	Freshwater and Marine Water Contaminant Cleanup	Not specified	0.6

Benchmark Values for Prometon in Surface Water

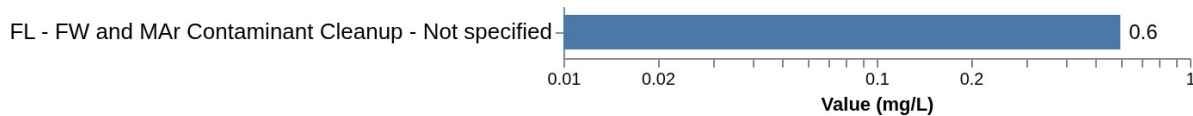


Table 452: Benchmark Values for Prometryn in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
7287-19-6	Florida	Freshwater and Marine Water Contaminant Cleanup	Not specified	0.021

Benchmark Values for Prometryn in Surface Water

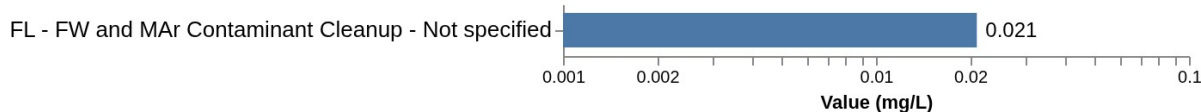
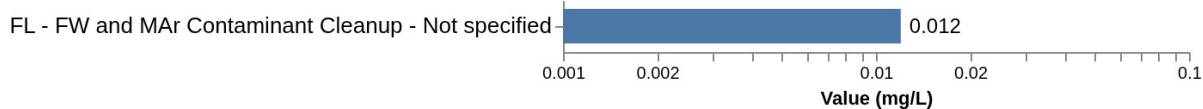
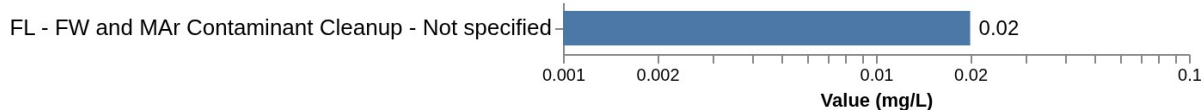


Table 453: Benchmark Values for Propachlor in Surface Water

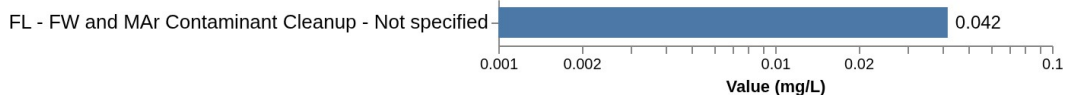
CAS	Source	Benchmark	Organism	Value (mg/L)
1918-16-7	Florida	Freshwater and Marine Water Contaminant Cleanup	Not specified	0.012

Benchmark Values for Propachlor in Surface Water**Table 454: Benchmark Values for Propanil in Surface Water**

CAS	Source	Benchmark	Organism	Value (mg/L)
709-98-8	Florida	Freshwater and Marine Water Contaminant Cleanup	Not specified	0.02

Benchmark Values for Propanil in Surface Water**Table 455: Benchmark Values for Propanoic acid, 2-(2,4-dichlorophenoxy)- in Surface Water**

CAS	Source	Benchmark	Organism	Value (mg/L)
120-36-5	Florida	Freshwater and Marine Water Contaminant Cleanup	Not specified	0.042

Benchmark Values for Propanoic acid, 2-(2,4-dichlorophenoxy)- in Surface Water**Table 456: Benchmark Values for Propargite in Surface Water**

CAS	Source	Benchmark	Organism	Value (mg/L)
2312-35-8	Florida	Freshwater and Marine Water Contaminant Cleanup	Not specified	0.0016

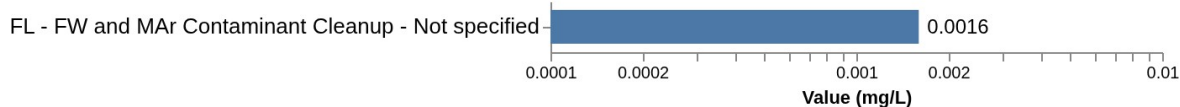
Benchmark Values for Propargite in Surface Water

Table 457: Benchmark Values for Propazine in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
139-40-2	Florida	Freshwater and Marine Water Contaminant Cleanup	Not specified	0.19

Benchmark Values for Propazine in Surface Water

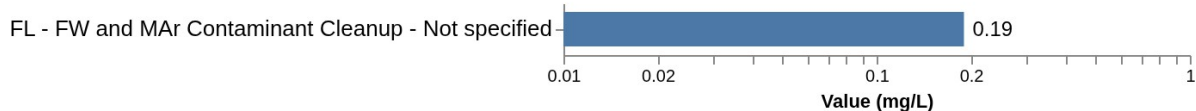


Table 458: Benchmark Values for Propham in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
122-42-9	Florida	Freshwater and Marine Water Contaminant Cleanup	Not specified	0.5

Benchmark Values for Propham in Surface Water

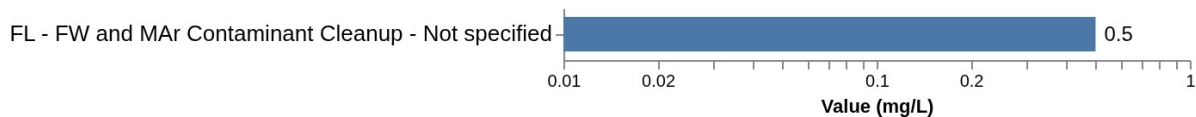


Table 459: Benchmark Values for Propiconazole in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
60207-90-1	Florida	Freshwater and Marine Water Contaminant Cleanup	Not specified	0.026

Benchmark Values for Propiconazole in Surface Water

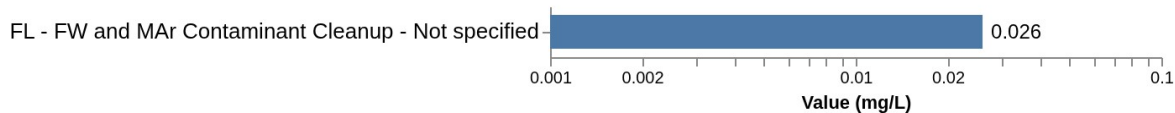


Table 460: Benchmark Values for Propyl benzene in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
103-65-1	Illinois	Chronic – General Use	Not specified	0.01	195
103-65-1	Illinois	Acute – General Use	Not specified	0.13	195

Benchmark Values for Propyl benzene in Surface Water

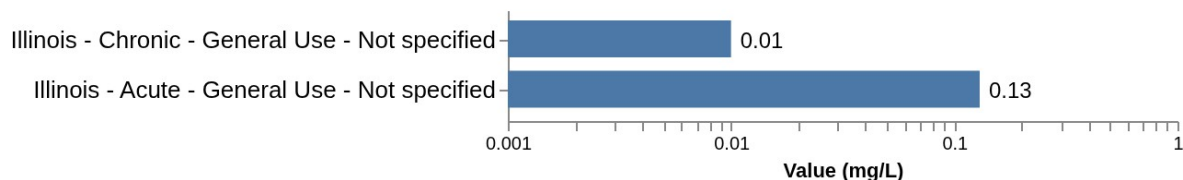


Table 461: Benchmark Values for Propylene Glycol in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
57-55-6	EPA Region 4	Freshwater and Saltwater Chronic Narcotic MOA	Not specified	329.329
57-55-6	EPA Region 4	Freshwater and Saltwater Acute, Narcotic MOA	Not specified	1114.122
57-55-6	Florida	Freshwater and Marine Water Contaminant Cleanup	Not specified	36.000
57-55-6	Illinois	Chronic – General Use	Not specified	5.700
57-55-6	Illinois	Acute – General Use	Not specified	71.000

Benchmark Values for Propylene Glycol in Surface Water

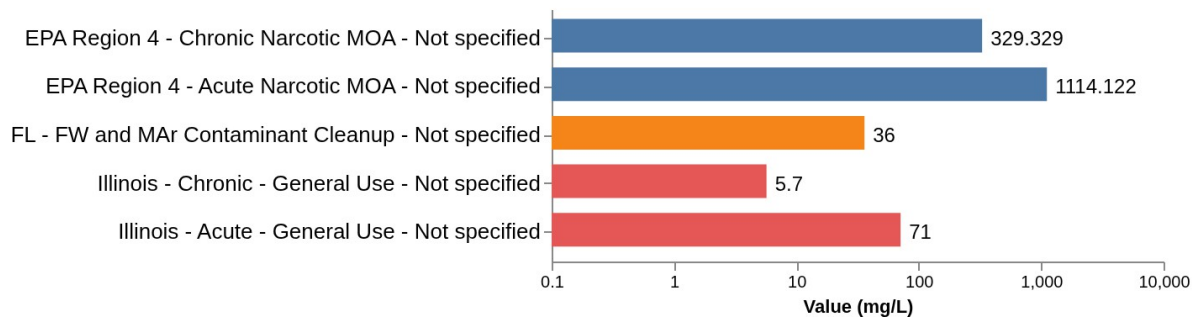


Table 462: Benchmark Values for Propylene in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
115-07-1	Illinois	Chronic – General Use	Not specified	0.4	195
115-07-1	Illinois	Acute – General Use	Not specified	4.0	195

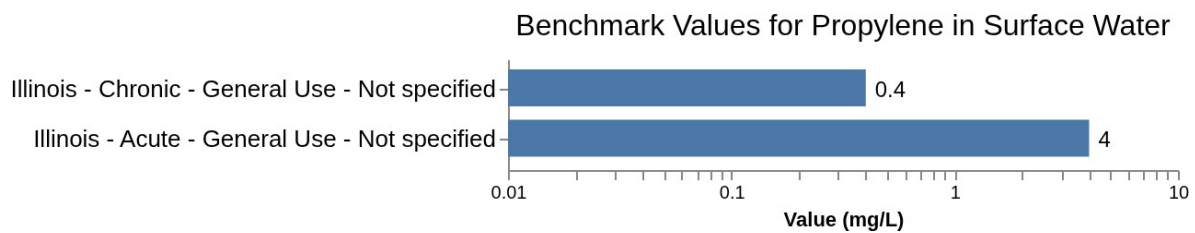


Table 463: Benchmark Values for Pyrene in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
129-00-0	EPA ESBs	Final Chronic Value	Not specified	0.010110
129-00-0	EPA Region 4	Freshwater and Saltwater Chronic for PAHs	Not specified	0.010000
129-00-0	EPA Region 4	Freshwater and Saltwater Acute for PAHs	Not specified	0.021000
129-00-0	EPA Region 5	EPA RCRA Surface Water	Not specified	0.000300
129-00-0	Florida	Freshwater and Marine Water Contaminant Cleanup	Not specified	0.000300
129-00-0	Florida	SWQS for Shellfish Propagation or Harvesting	Not specified	11.000000
129-00-0	LANL ECORISK	Surface Water No Effect ESL	Aquatic community organisms	0.000025
129-00-0	LANL ECORISK	Surface Water Low Effect ESL	Aquatic community organisms	0.000250
129-00-0	LANL ECORISK	Surface Water No Effect ESL	Montane shrew	33.000000
129-00-0	LANL ECORISK	Surface Water No Effect ESL	Deer mouse	39.000000
129-00-0	LANL ECORISK	Surface Water No Effect ESL	Occult little brown myotis bat	47.000000
129-00-0	LANL ECORISK	Surface Water No Effect ESL	Mountain cottontail	77.000000
129-00-0	LANL ECORISK	Surface Water No Effect ESL	Gray fox	87.000000
129-00-0	LANL ECORISK	Surface Water Low Effect ESL	Montane shrew	330.000000
129-00-0	LANL ECORISK	Surface Water Low Effect ESL	Deer mouse	390.000000
129-00-0	LANL ECORISK	Surface Water Low Effect ESL	Occult little brown myotis bat	470.000000
129-00-0	LANL ECORISK	Surface Water Low Effect ESL	Mountain cottontail	770.000000
129-00-0	LANL ECORISK	Surface Water Low Effect ESL	Gray fox	870.000000

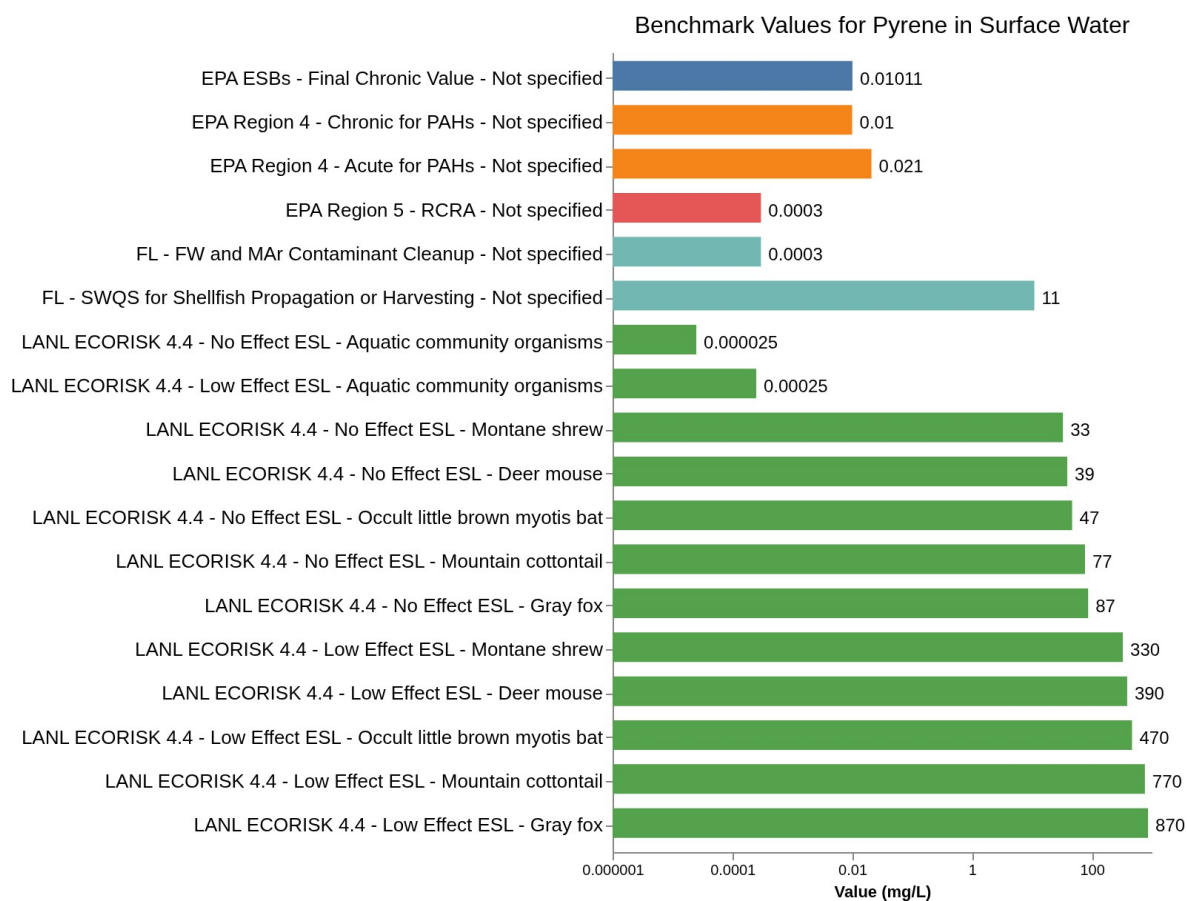


Table 464: Benchmark Values for Pyridine in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
110-86-1	EPA Region 5	EPA RCRA Surface Water	Not specified	2.38
110-86-1	Florida	Freshwater and Marine Water Contaminant Cleanup	Not specified	1.30

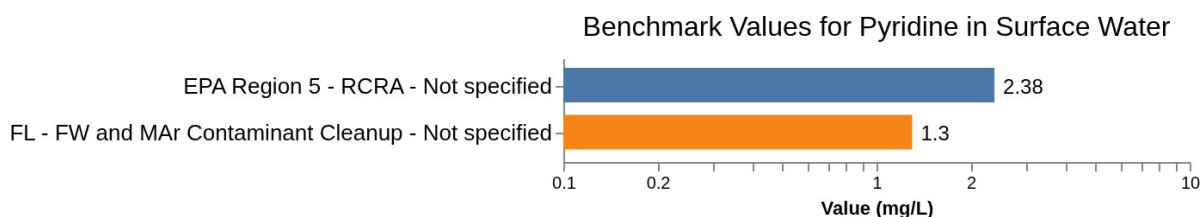


Table 465: Benchmark Values for Quinoline in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
91-22-5	EPA Region 4	Freshwater and Saltwater Chronic Narcotic MOA	Not specified	2.731
91-22-5	EPA Region 4	Freshwater and Saltwater Acute, Narcotic MOA	Not specified	5.682

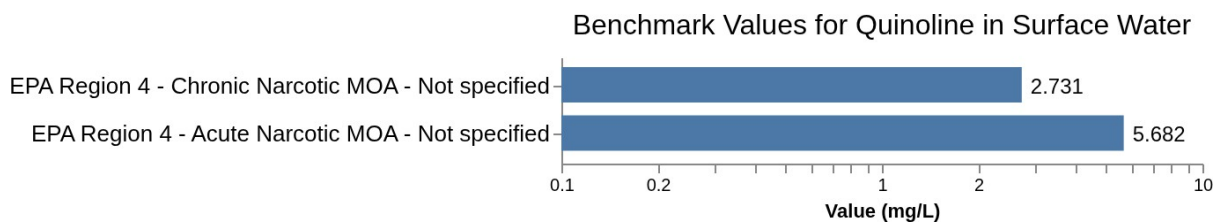


Table 466: Benchmark Values for Resmethrin in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
10453-86-8	Florida	Freshwater and Marine Water Contaminant Cleanup	Not specified	0.000003

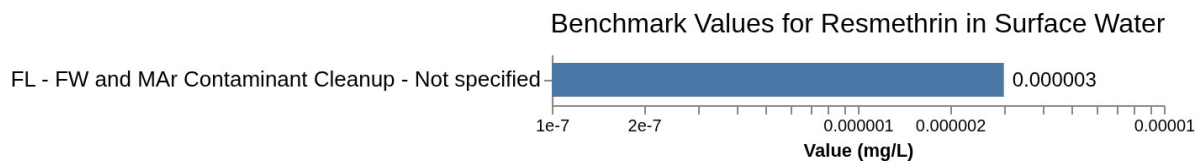


Table 467: Benchmark Values for Ronnel in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
299-84-3	Florida	Freshwater and Marine Water Contaminant Cleanup	Not specified	0.00006

Benchmark Values for Ronnel in Surface Water

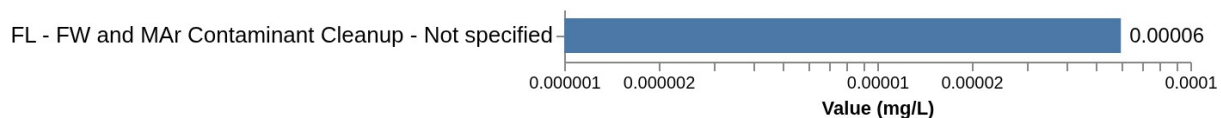


Table 468: Benchmark Values for Rotenone in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
83-79-4	Florida	Freshwater and Marine Water Contaminant Cleanup	Not specified	0.00010
83-79-4	Illinois	Chronic - General Use	Not specified	0.00032
83-79-4	Illinois	Acute - General Use	Not specified	0.00450

Benchmark Values for Rotenone in Surface Water

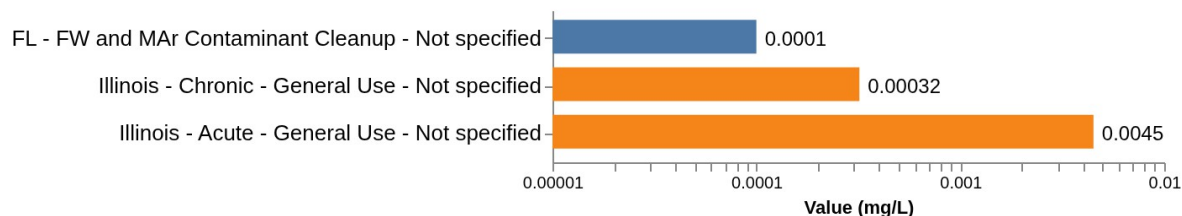


Table 469: Benchmark Values for Selenious Acid in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
7783-00-8	Florida	Freshwater and Marine Water Contaminant Cleanup	Not specified	0.04

Benchmark Values for Selenious Acid in Surface Water

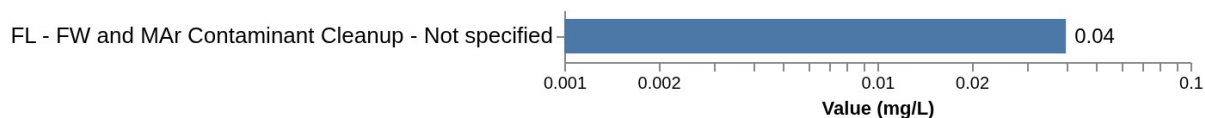


Table 470: Benchmark Values for Selenium in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
7782-49-2	British Columbia	Irrigation LTC	Not specified	0.01	50
7782-49-2	British Columbia	Livestock LTC	Not specified	0.03	
7782-49-2	Canada	Water Livestock	Not specified	0.05	
7782-49-2	Canada	Water Irrigation	Not specified		
7782-49-2	EPA Region 5	EPA RCRA Surface Water	Not specified	0.005	
7782-49-2	Florida	SWQS for Shellfish Propagation or Harvesting	Not specified	0.071	
7782-49-2	LANL ECORISK	Surface Water No Effect ESL	Aquatic community organisms	0.005	
7782-49-2	LANL ECORISK	Surface Water Low Effect ESL	Aquatic community organisms	0.02	
7782-49-2	LANL ECORISK	Surface Water No Effect ESL	Montane shrew	0.89	
7782-49-2	LANL ECORISK	Surface Water No Effect ESL	Deer mouse	1	
7782-49-2	LANL ECORISK	Surface Water No Effect ESL	Occult little brown myotis bat	1.2	
7782-49-2	LANL ECORISK	Surface Water Low Effect ESL	Montane shrew	1.4	
7782-49-2	LANL ECORISK	Surface Water Low Effect ESL	Deer mouse	1.7	
7782-49-2	LANL ECORISK	Surface Water No Effect ESL	Violet-green swallow	1.8	
7782-49-2	LANL ECORISK	Surface Water Low Effect ESL	Occult little brown myotis bat	2	
7782-49-2	LANL ECORISK	Surface Water No Effect ESL	Mountain cottontail	2	
7782-49-2	LANL ECORISK	Surface Water No Effect ESL	Gray fox	2.3	
7782-49-2	LANL ECORISK	Surface Water No Effect ESL	American robin	3.1	
7782-49-2	LANL ECORISK	Surface Water Low Effect ESL	Mountain cottontail	3.4	
7782-49-2	LANL ECORISK	Surface Water No Effect ESL	American kestrel	3.6	
7782-49-2	LANL ECORISK	Surface Water Low Effect ESL	Gray fox	3.8	
7782-49-2	LANL ECORISK	Surface Water Low Effect ESL	Violet-green swallow	6.1	
7782-49-2	LANL ECORISK	Surface Water Low Effect ESL	American robin	10	
7782-49-2	LANL ECORISK	Surface Water Low Effect ESL	American kestrel	12	
7782-49-2	ORNL	EC20 Sensitive Species	Not specified	0.0026	
7782-49-2	ORNL	EC20 Daphnids	Not specified	0.025	
7782-49-2	ORNL	EC20 Fish	Not specified	0.04	
7782-49-2	ORNL	SW Lowest Chronic Value – Fish	Not specified	0.0883	
7782-49-2	ORNL	SW Lowest Chronic Value – All Organisms	Not specified	0.08832	
7782-49-2	ORNL	SW Lowest Chronic Value – Daphnids	Not specified	0.0917	
7782-49-2	ORNL	SW Lowest Chronic Value – Aquatic Plants	Not specified	0.1	
7782-49-2	Ohio	OMZA	Not specified	0.0046	171, 190

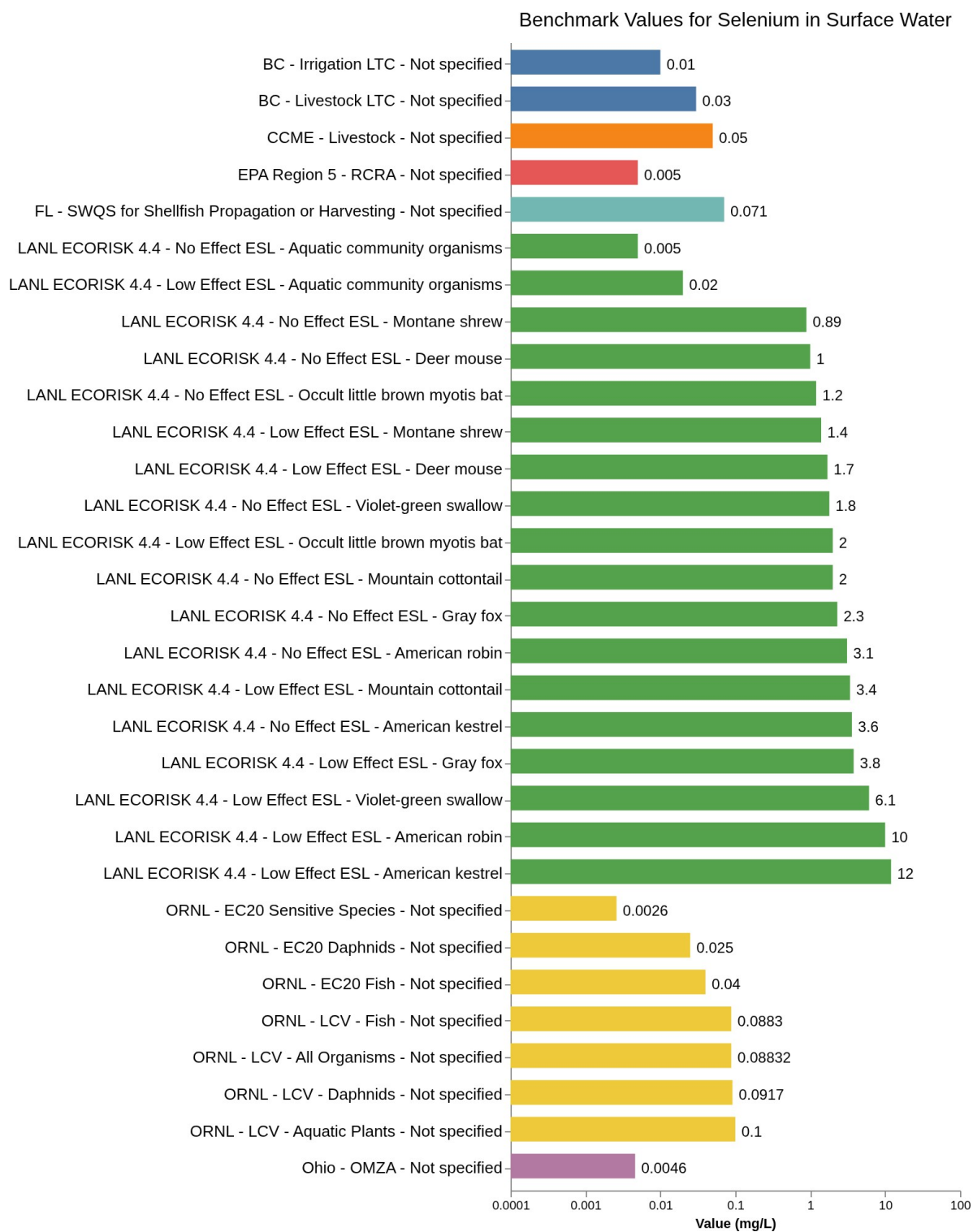


Table 471: Benchmark Values for Silver in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
7440-22-4	British Columbia	Estuarine LTC	Not specified	0.00150	
7440-22-4	British Columbia	Estuarine STA	Not specified	0.00300	
7440-22-4	EPA Region 5	EPA RCRA Surface Water	Not specified	0.00012	
7440-22-4	LANL ECORISK	Surface Water No Effect ESL	Aquatic community organisms	0.00010	
7440-22-4	LANL ECORISK	Surface Water Low Effect ESL	Aquatic community organisms	0.00100	
7440-22-4	LANL ECORISK	Surface Water No Effect ESL	Violet-green swallow	22.00000	
7440-22-4	LANL ECORISK	Surface Water No Effect ESL	American robin	38.00000	
7440-22-4	LANL ECORISK	Surface Water No Effect ESL	American kestrel	45.00000	
7440-22-4	LANL ECORISK	Surface Water No Effect ESL	Montane shrew	85.00000	
7440-22-4	LANL ECORISK	Surface Water No Effect ESL	Deer mouse	100.00000	
7440-22-4	LANL ECORISK	Surface Water No Effect ESL	Occult little brown myotis bat	110.00000	
7440-22-4	LANL ECORISK	Surface Water No Effect ESL	Mountain cottontail	190.00000	
7440-22-4	LANL ECORISK	Surface Water Low Effect ESL	Violet-green swallow	220.00000	
7440-22-4	LANL ECORISK	Surface Water No Effect ESL	Gray fox	220.00000	
7440-22-4	LANL ECORISK	Surface Water Low Effect ESL	American robin	380.00000	
7440-22-4	LANL ECORISK	Surface Water Low Effect ESL	American kestrel	450.00000	
7440-22-4	LANL ECORISK	Surface Water Low Effect ESL	Montane shrew	850.00000	
7440-22-4	LANL ECORISK	Surface Water Low Effect ESL	Deer mouse	1000.00000	
7440-22-4	LANL ECORISK	Surface Water Low Effect ESL	Occult little brown myotis bat	1100.00000	
7440-22-4	LANL ECORISK	Surface Water Low Effect ESL	Mountain cottontail	1900.00000	
7440-22-4	LANL ECORISK	Surface Water Low Effect ESL	Gray fox	2200.00000	
7440-22-4	ORNL	SW Lowest Chronic Value – All Organisms	Not specified	0.00012	
7440-22-4	ORNL	SW Lowest Chronic Value – Fish	Not specified	0.00012	
7440-22-4	ORNL	EC20 Sensitive Species	Not specified	0.00014	30
7440-22-4	ORNL	EC20 Fish	Not specified	0.00020	
7440-22-4	ORNL	EC25 Bass Population	Not specified	0.00032	
7440-22-4	ORNL	Tier II Secondary Chronic Value	Not specified	0.00036	
7440-22-4	ORNL	EC20 Daphnids	Not specified	0.00056	23
7440-22-4	ORNL	SW Lowest Chronic Value – Daphnids	Not specified	0.00260	
7440-22-4	ORNL	SW Lowest Chronic Value – Aquatic Plants	Not specified	0.03000	

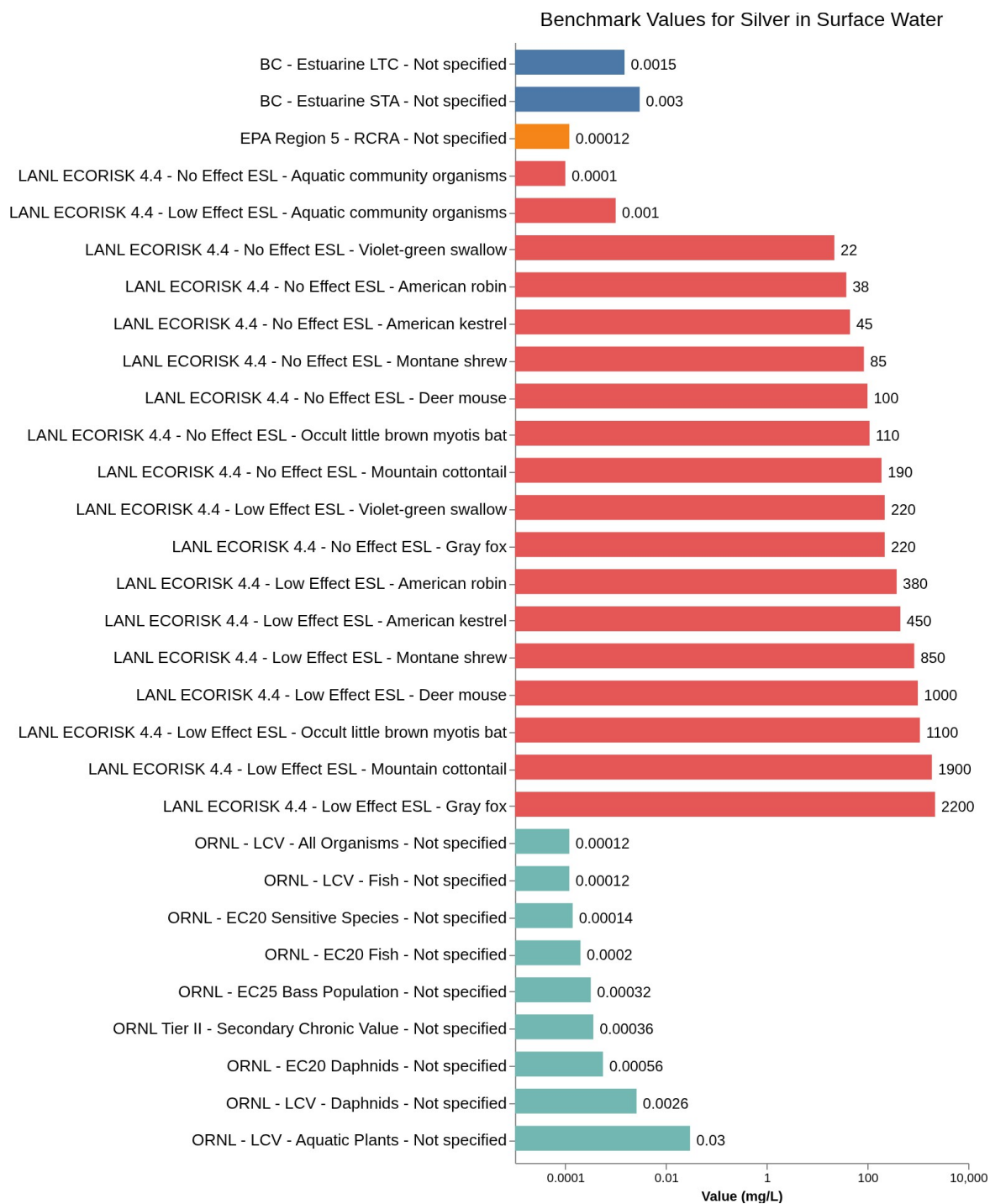


Table 472: Benchmark Values for Simazine in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
122-34-9	Canada	Water Irrigation	Not specified	0.0005
122-34-9	Canada	Water Livestock	Not specified	0.0100

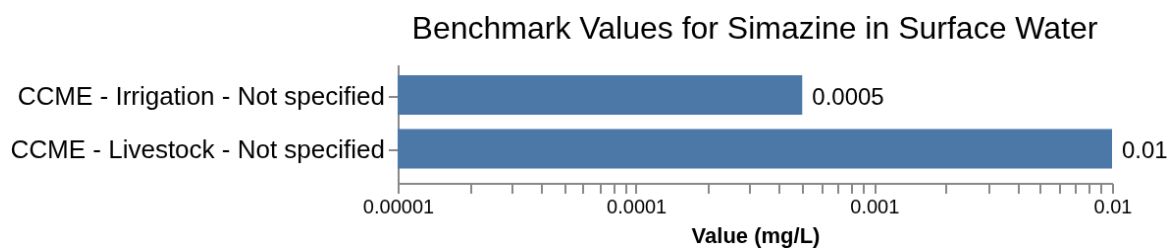


Table 473: Benchmark Values for Simazine in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
123-34-9	Illinois	Chronic – General Use	Not specified	0.05	195, 197
123-34-9	Illinois	Acute – General Use	Not specified	1.00	195, 197

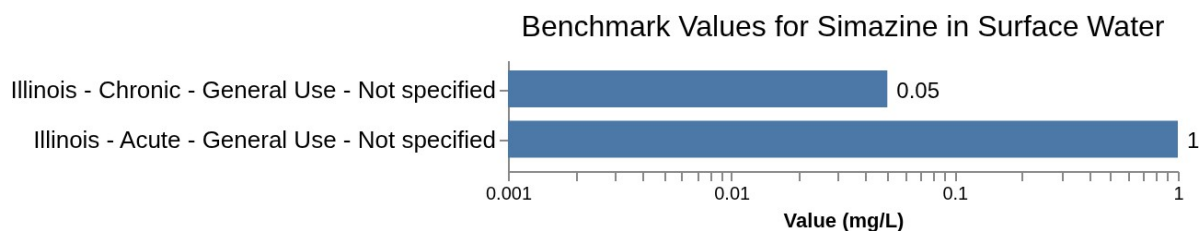


Table 474: Benchmark Values for Sodium Acifluorfen in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
62476-59-9	Florida	Freshwater and Marine Water Contaminant Cleanup	Not specified	0.19

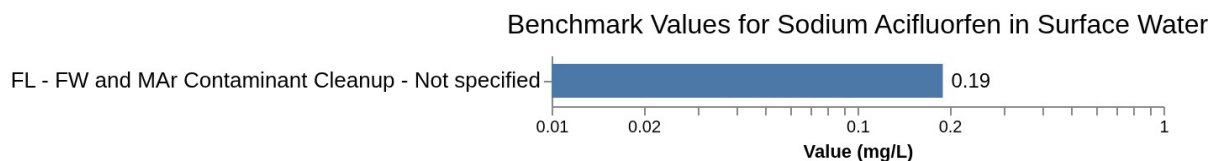


Table 475: Benchmark Values for Sodium Azide in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
26628-22-8	Illinois	Chronic – General Use	Not specified	0.0056	195
26628-22-8	Illinois	Acute – General Use	Not specified	0.0700	

Benchmark Values for Sodium Azide in Surface Water

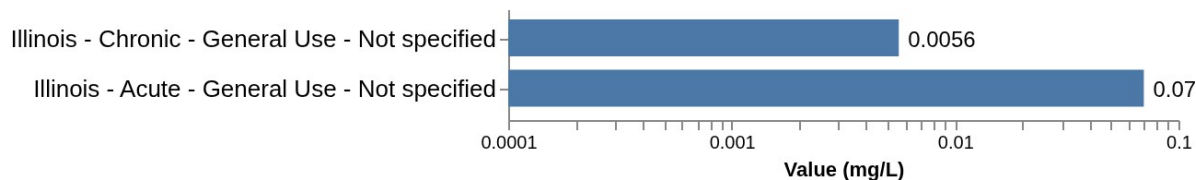


Table 476: Benchmark Values for Sodium Cyanide in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
143-33-9	Florida	Freshwater and Marine Water Contaminant Cleanup	Not specified	0.0038

Benchmark Values for Sodium Cyanide in Surface Water

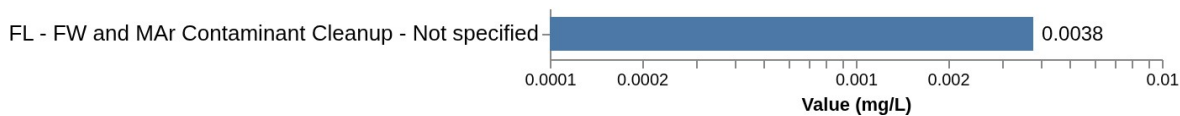


Table 477: Benchmark Values for Sodium molybdate in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
7631-95-0	Illinois	Chronic – General Use	Not specified	0.52	195
7631-95-0	Illinois	Acute – General Use	Not specified	6.60	195

Benchmark Values for Sodium molybdate in Surface Water

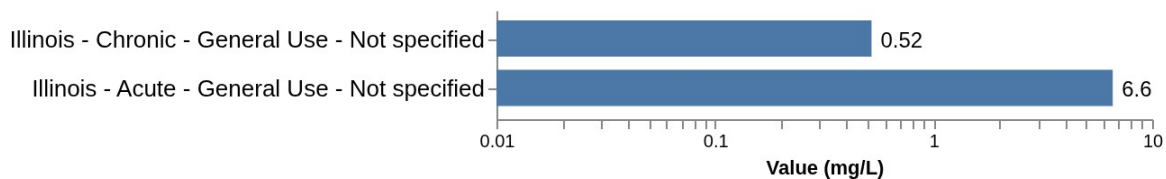


Table 478: Benchmark Values for Sodium in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
7440-23-5	ORNL	SW Lowest Chronic Value – All Organisms	Not specified	680
7440-23-5	ORNL	SW Lowest Chronic Value – Daphnids	Not specified	680

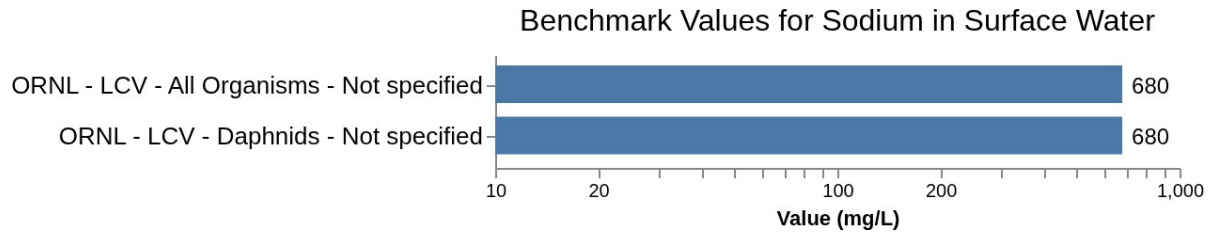


Table 479: Benchmark Values for Strontium, Stable in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
7440-24-6	LANL ECORISK	Surface Water No Effect ESL	Aquatic community organisms	1.5
7440-24-6	LANL ECORISK	Surface Water Low Effect ESL	Aquatic community organisms	15.0
7440-24-6	LANL ECORISK	Surface Water No Effect ESL	Montane shrew	110.0
7440-24-6	LANL ECORISK	Surface Water No Effect ESL	Deer mouse	130.0
7440-24-6	LANL ECORISK	Surface Water No Effect ESL	Occult little brown myotis bat	150.0
7440-24-6	LANL ECORISK	Surface Water No Effect ESL	Mountain cottontail	250.0
7440-24-6	LANL ECORISK	Surface Water No Effect ESL	Gray fox	290.0
7440-24-6	LANL ECORISK	Surface Water Low Effect ESL	Montane shrew	1100.0
7440-24-6	LANL ECORISK	Surface Water Low Effect ESL	Deer mouse	1300.0
7440-24-6	LANL ECORISK	Surface Water Low Effect ESL	Occult little brown myotis bat	1500.0
7440-24-6	LANL ECORISK	Surface Water Low Effect ESL	Mountain cottontail	2500.0
7440-24-6	LANL ECORISK	Surface Water Low Effect ESL	Gray fox	2900.0
7440-24-6	ORNL	Tier II Secondary Chronic Value	Not specified	1.5
7440-24-6	ORNL	Tier II Secondary Acute Value	Not specified	15.0
7440-24-6	ORNL	SW Lowest Chronic Value – Daphnids	Not specified	42.0
7440-24-6	ORNL	SW Lowest Chronic Value – All Organisms	Not specified	42.0

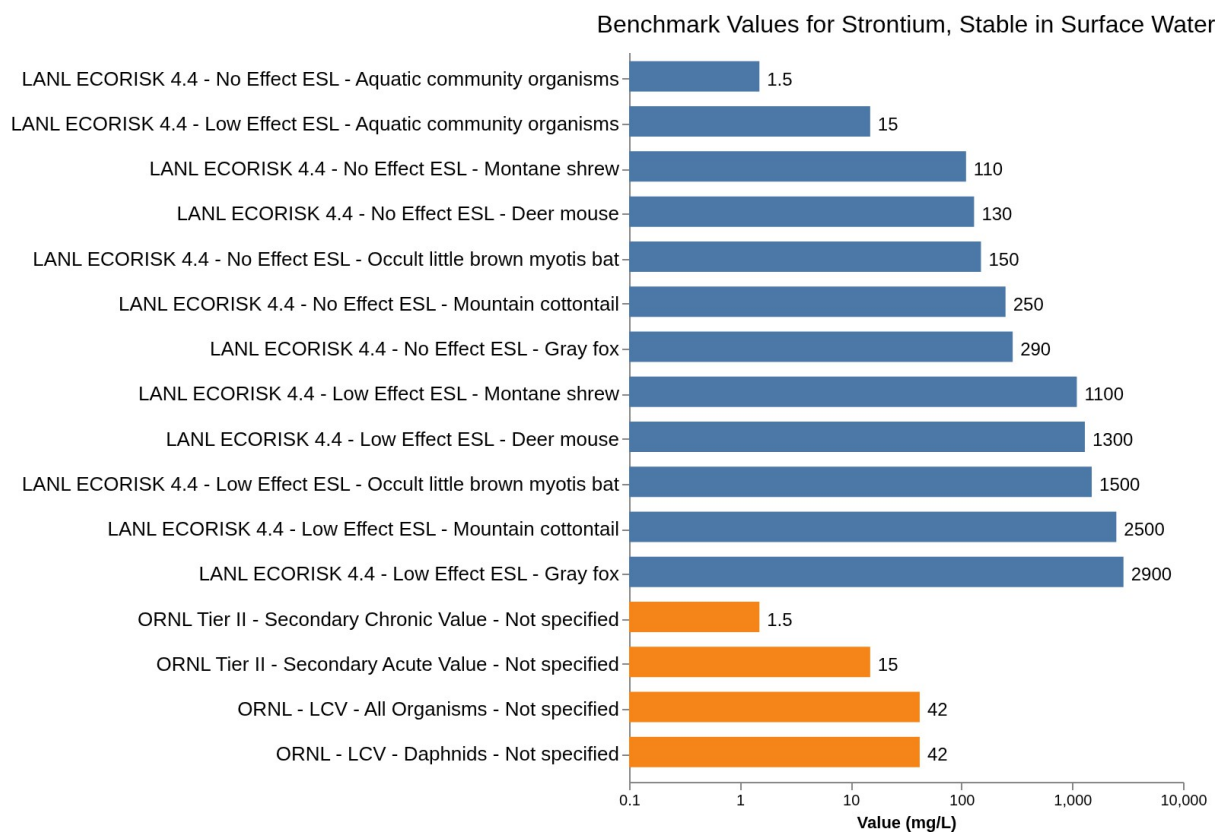


Table 480: Benchmark Values for Strychnine in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
57-24-9	Florida	Freshwater and Marine Water Contaminant Cleanup	Not specified	0.038

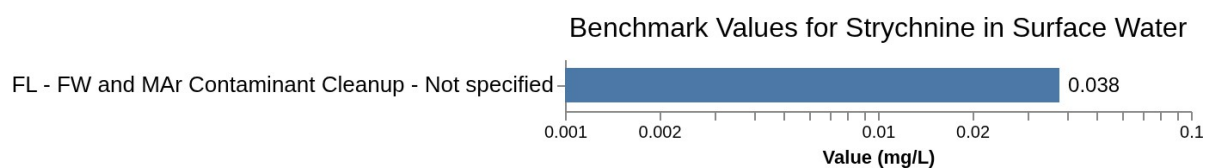


Table 481: Benchmark Values for Styrene in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
100-42-5	EPA Region 4	Freshwater and Saltwater Chronic Narcotic MOA	Not specified	0.412
100-42-5	EPA Region 4	Freshwater and Saltwater Acute, Narcotic MOA	Not specified	1.575
100-42-5	EPA Region 5	EPA RCRA Surface Water	Not specified	0.032
100-42-5	Florida	Freshwater and Marine Water Contaminant Cleanup	Not specified	0.460
100-42-5	Illinois	Chronic – General Use	Not specified	0.200
100-42-5	Illinois	Acute – General Use	Not specified	2.500

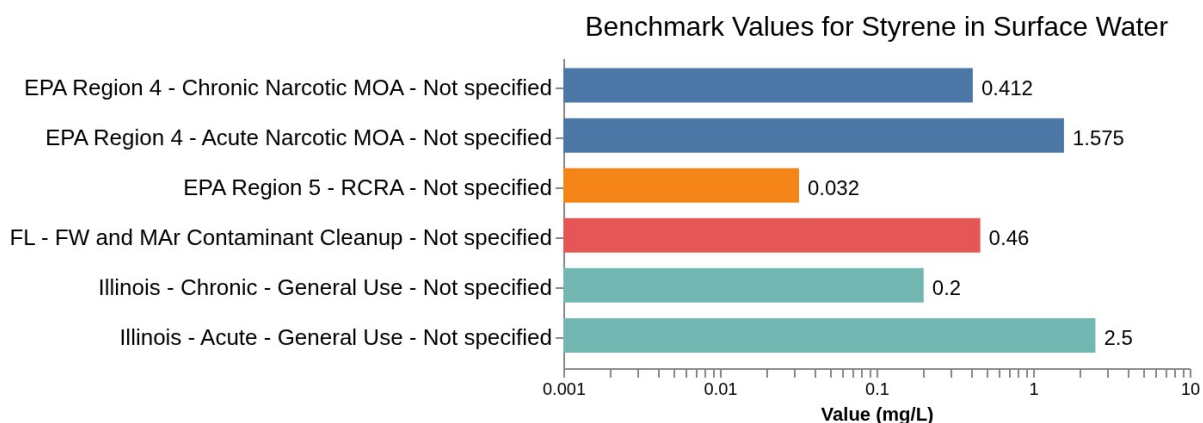


Table 482: Benchmark Values for Sulfate in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
14808-79-8	British Columbia	Livestock LTC	Not specified	1000.0
14808-79-8	Canada	Water Livestock	Not specified	1000.0

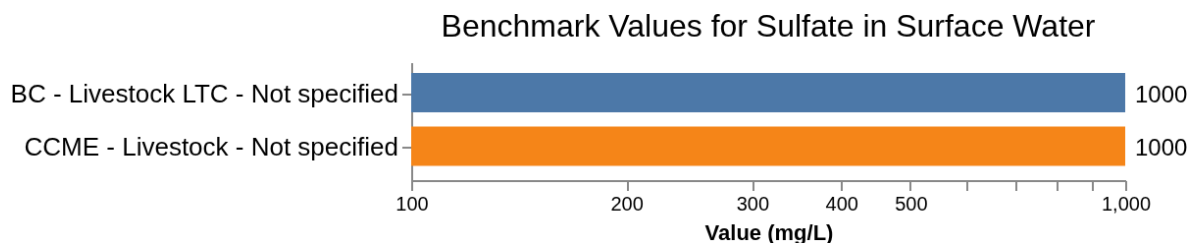


Table 483: Benchmark Values for Sulfolane in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
126-33-0	British Columbia	Irrigation LTC	Not specified	8.4
126-33-0	British Columbia	Livestock LTC	Not specified	14.0
126-33-0	Canada	Water Irrigation	Not specified	0.5

Benchmark Values for Sulfolane in Surface Water

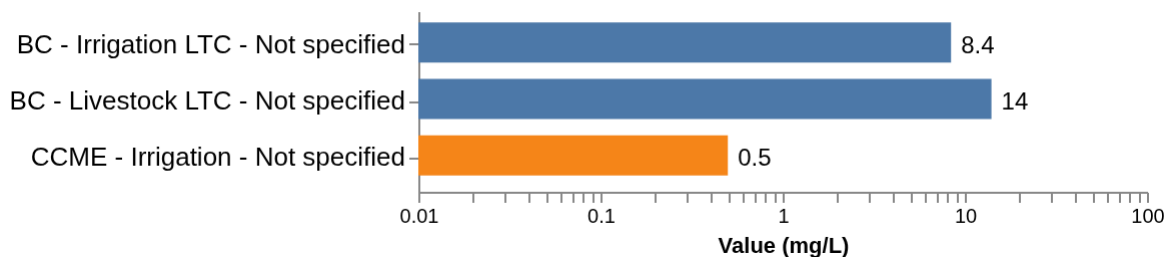


Table 484: Benchmark Values for Sulfurous acid, 2-chloroethyl 2-[4-(1,1-dimethylethyl)phenoxy]-1-methylethyl ester in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
140-57-8	EPA Region 5	EPA RCRA Surface Water	Not specified	0.00309
140-57-8	Florida	Freshwater and Marine Water Contaminant Cleanup	Not specified	0.00300

Benchmark Values for Sulfurous acid, 2-chloroethyl 2-[4-(1,1-dimethylethyl)phenoxy]-1-methylethyl ester in Surface Water

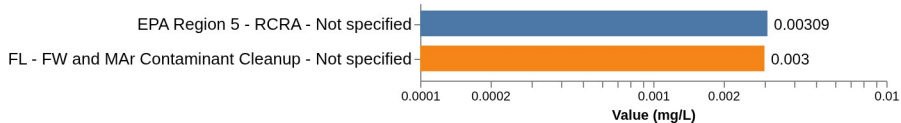


Table 485: Benchmark Values for TCDD, 2,3,7,8- in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
1746-01-6	EPA Region 5	EPA RCRA Surface Water	Not specified	3.000000e-12	
1746-01-6	LANL ECORISK	Surface Water No Effect ESL	Aquatic community organisms	2.000000e-09	
1746-01-6	LANL ECORISK	Surface Water Low Effect ESL	Aquatic community organisms	2.000000e-08	
1746-01-6	LANL ECORISK	Surface Water No Effect ESL	Montane shrew	4.400000e-06	
1746-01-6	LANL ECORISK	Surface Water No Effect ESL	Deer mouse	5.200000e-06	
1746-01-6	LANL ECORISK	Surface Water No Effect ESL	Occult little brown myotis bat	6.200000e-06	
1746-01-6	LANL ECORISK	Surface Water No Effect ESL	Mountain cottontail	1.000000e-05	
1746-01-6	LANL ECORISK	Surface Water No Effect ESL	Gray fox	1.100000e-05	
1746-01-6	LANL ECORISK	Surface Water Low Effect ESL	Montane shrew	4.400000e-05	
1746-01-6	LANL ECORISK	Surface Water Low Effect ESL	Deer mouse	5.200000e-05	
1746-01-6	LANL ECORISK	Surface Water Low Effect ESL	Occult little brown myotis bat	6.200000e-05	
1746-01-6	LANL ECORISK	Surface Water Low Effect ESL	Mountain cottontail	1.000000e-04	
1746-01-6	LANL ECORISK	Surface Water Low Effect ESL	Gray fox	1.100000e-04	
1746-01-6	Ohio	OMZA Lake Erie Drainage Basin	Not specified	3.100000e-12	192

Benchmark Values for TCDD, 2,3,7,8- in Surface Water

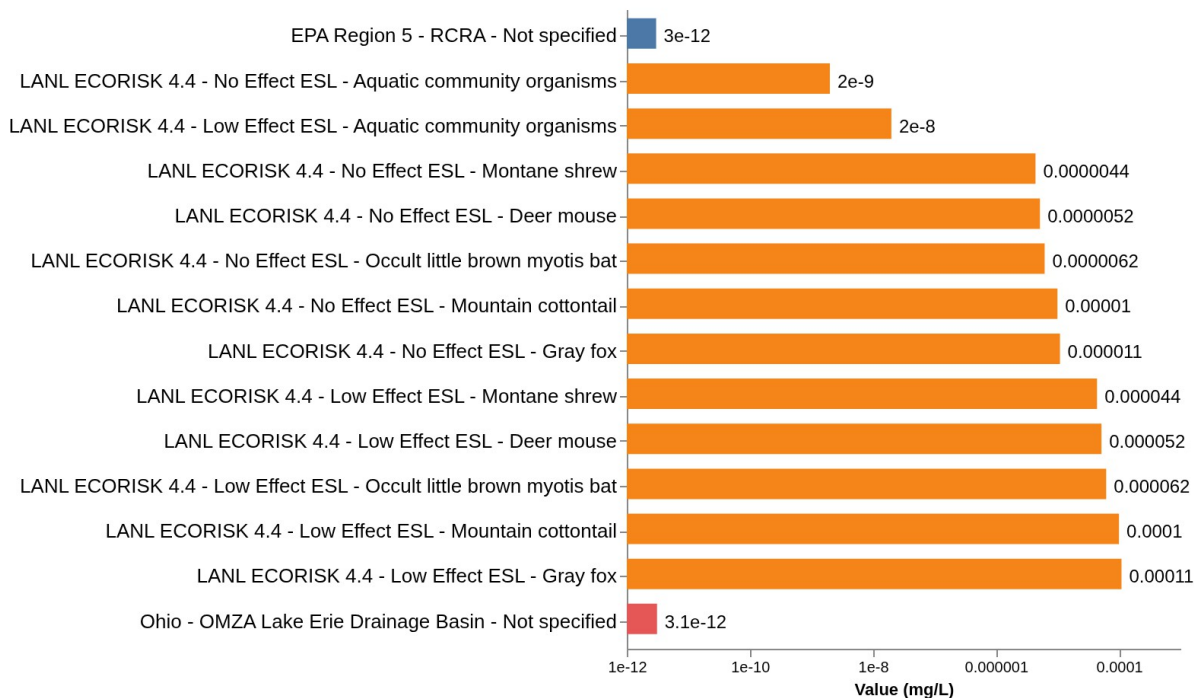


Table 486: Benchmark Values for TCDF, 2,3,7,8- in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
51207-31-9	Illinois	Chronic – General Use	Not specified	5.000000e-07	195, 22

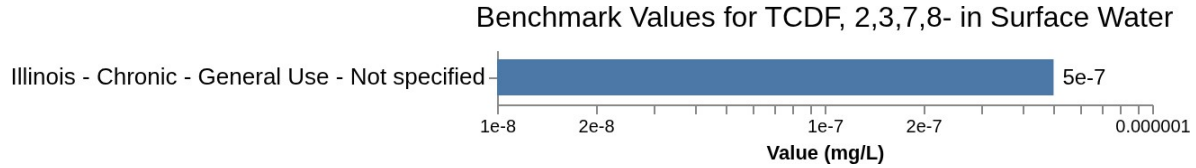


Table 487: Benchmark Values for Tebuthiuron in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
34014-18-1	Canada	Water Irrigation	Not specified	0.00027
34014-18-1	Canada	Water Livestock	Not specified	0.13000
34014-18-1	Florida	Freshwater and Marine Water Contaminant Cleanup	Not specified	0.31000

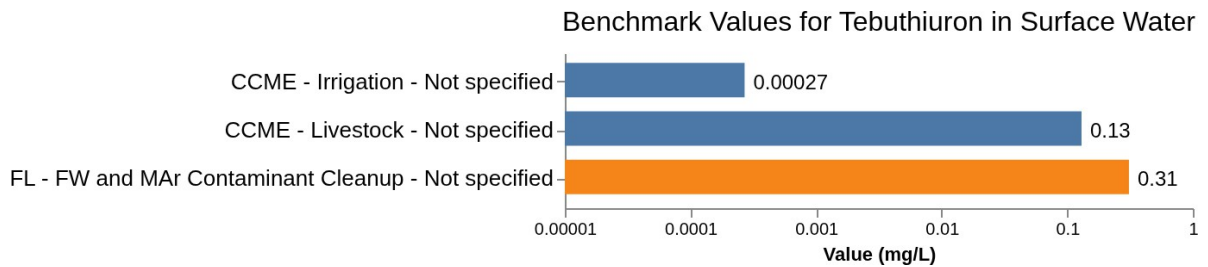


Table 488: Benchmark Values for Temephos in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
3383-96-8	Florida	Freshwater and Marine Water Contaminant Cleanup	Not specified	0.000002

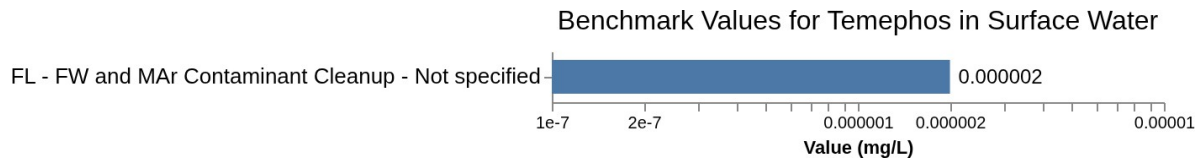


Table 489: Benchmark Values for Terbacil in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
5902-51-2	Florida	Freshwater and Marine Water Contaminant Cleanup	Not specified	2.5	

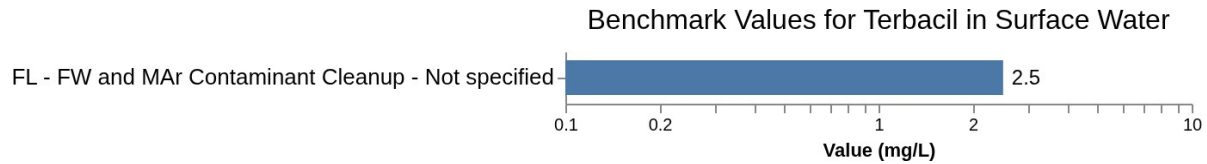


Table 490: Benchmark Values for Terbufos in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
13071-79-9	Florida	Freshwater and Marine Water Contaminant Cleanup	Not specified	0.000010	
13071-79-9	Illinois	Chronic – General Use	Not specified	0.000002	195
13071-79-9	Illinois	Acute – General Use	Not specified	0.000024	

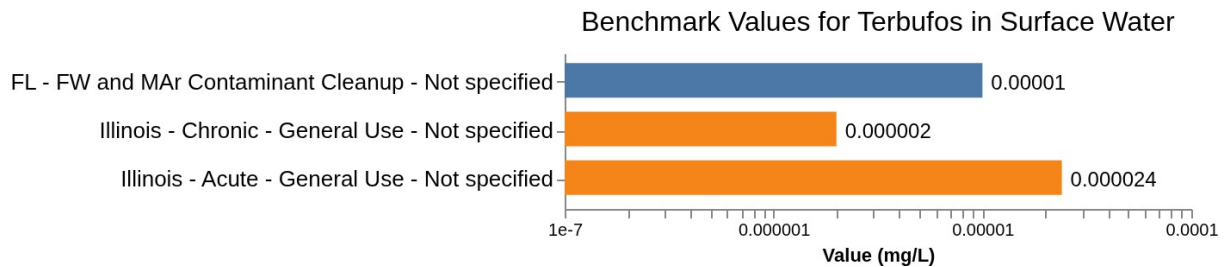


Table 491: Benchmark Values for Terbutryn in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
886-50-0	Florida	Freshwater and Marine Water Contaminant Cleanup	Not specified	0.0031

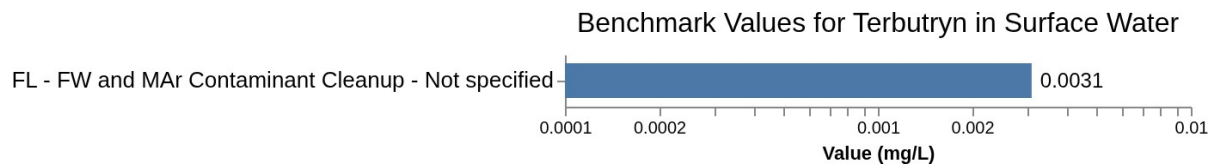


Table 492: Benchmark Values for Tetrachlorobenzene, 1,2,3,4- in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
634-66-2	EPA Region 4	Freshwater and Saltwater Chronic Narcotic MOA	Not specified	0.006
634-66-2	EPA Region 4	Freshwater and Saltwater Acute, Narcotic MOA	Not specified	0.039

Benchmark Values for Tetrachlorobenzene, 1,2,3,4- in Surface Water

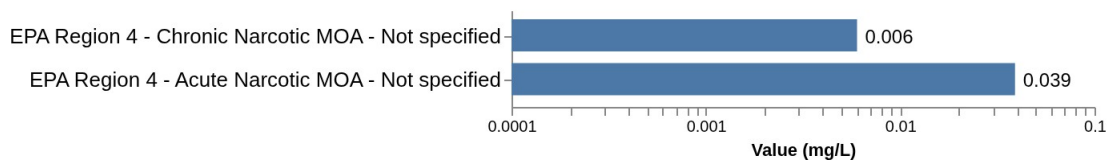


Table 493: Benchmark Values for Tetrachlorobenzene, 1,2,4,5- in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
95-94-3	EPA Region 4	Freshwater and Saltwater Chronic Narcotic MOA	Not specified	0.006
95-94-3	EPA Region 4	Freshwater and Saltwater Acute, Narcotic MOA	Not specified	0.039
95-94-3	EPA Region 5	EPA RCRA Surface Water	Not specified	0.003
95-94-3	Illinois	Chronic - General Use	Not specified	0.013
95-94-3	Illinois	Acute - General Use	Not specified	0.160

Benchmark Values for Tetrachlorobenzene, 1,2,4,5- in Surface Water

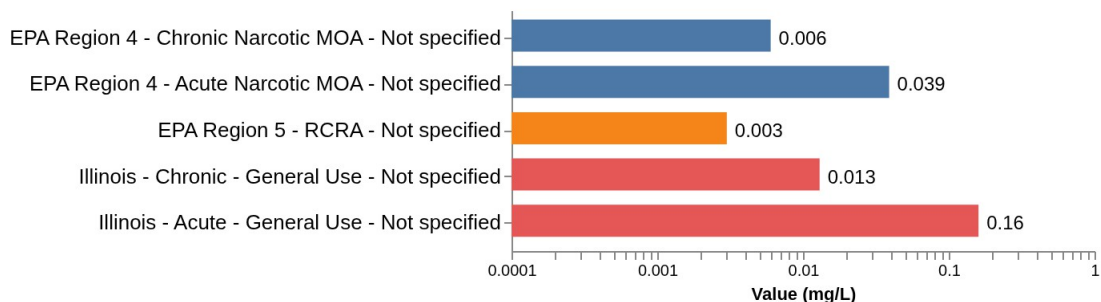


Table 494: Benchmark Values for Tetrachloroethane, 1,1,1,2- in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
630-20-6	EPA Region 4	Freshwater and Saltwater Chronic Narcotic MOA	Not specified	0.360
630-20-6	EPA Region 4	Freshwater and Saltwater Acute, Narcotic MOA	Not specified	1.376
630-20-6	ORNL	SW Lowest Chronic Value – All Organisms	Not specified	2.400

Benchmark Values for Tetrachloroethane, 1,1,1,2- in Surface Water

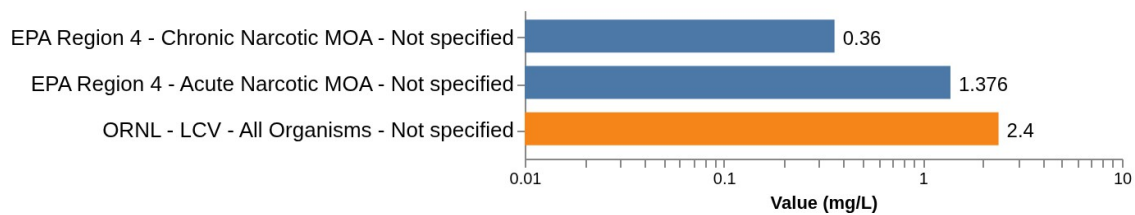


Table 495: Benchmark Values for Tetrachloroethane, 1,1,2,2- in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
79-34-5	EPA Region 4	Freshwater and Saltwater Chronic Narcotic MOA	Not specified	1.7840	
79-34-5	EPA Region 4	Freshwater and Saltwater Acute, Narcotic MOA	Not specified	6.8270	
79-34-5	EPA Region 5	EPA RCRA Surface Water	Not specified	0.3800	
79-34-5	Florida	SWQS for Shellfish Propagation or Harvesting	Not specified	0.0108	
79-34-5	Illinois	Chronic – General Use	Not specified	0.1400	
79-34-5	Illinois	Acute – General Use	Not specified	1.8000	
79-34-5	ORNL	EC20 Daphnids	Not specified	0.4200	23
79-34-5	ORNL	Tier II Secondary Chronic Value	Not specified	0.6100	
79-34-5	ORNL	EC20 Fish	Not specified	1.4000	
79-34-5	ORNL	EC25 Bass Population	Not specified	1.5900	
79-34-5	ORNL	Tier II Secondary Acute Value	Not specified	2.1000	
79-34-5	ORNL	SW Lowest Chronic Value – Fish	Not specified	2.4000	
79-34-5	ORNL	SW Lowest Chronic Value – All Organisms	Not specified	2.4000	
79-34-5	ORNL	SW Lowest Chronic Value – Daphnids	Not specified	9.9000	
79-34-5	ORNL	SW Lowest Chronic Value – Aquatic Plants	Not specified	136.0000	

Benchmark Values for Tetrachloroethane, 1,1,2,2- in Surface Water

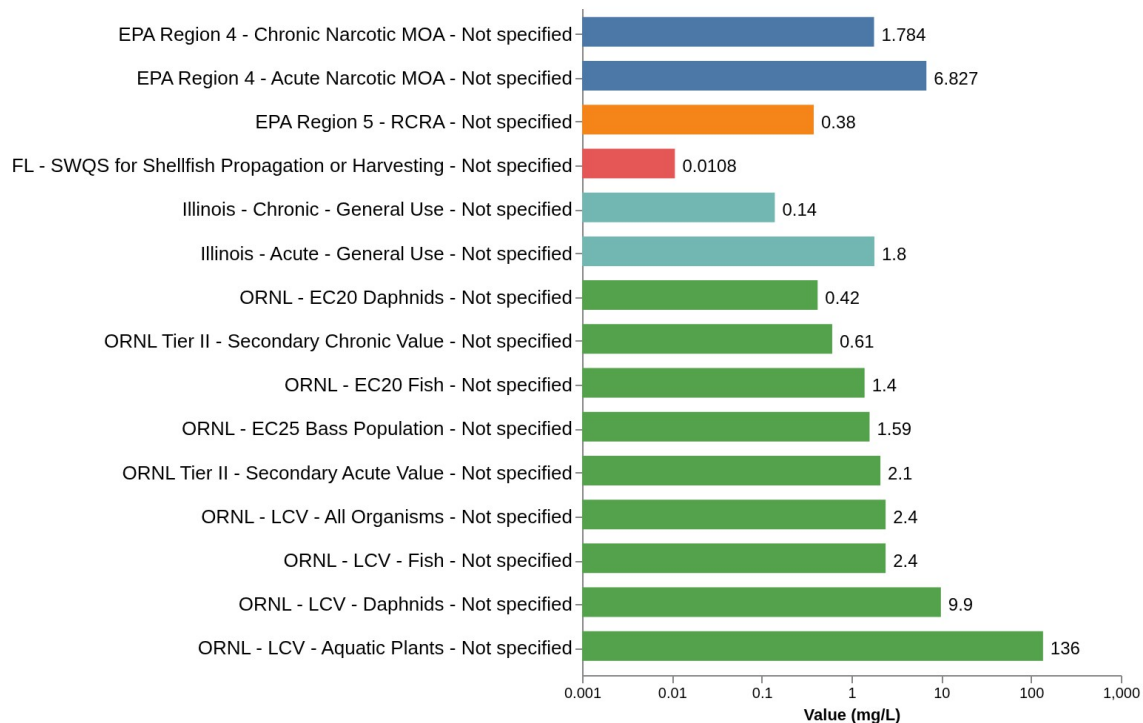


Table 496: Benchmark Values for Tetrachloroethylene in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
127-18-4	EPA Region 4	Freshwater and Saltwater Chronic Narcotic MOA	Not specified	0.33200	
127-18-4	EPA Region 4	Freshwater and Saltwater Acute, Narcotic MOA	Not specified	1.26900	
127-18-4	EPA Region 5	EPA RCRA Surface Water	Not specified	0.04500	
127-18-4	Florida	SWQS for Shellfish Propagation or Harvesting	Not specified	0.00885	
127-18-4	Illinois	Chronic – General Use	Not specified	0.15000	
127-18-4	Illinois	Acute – General Use	Not specified	1.20000	
127-18-4	LANL ECORISK	Surface Water No Effect ESL	Aquatic community organisms	0.09800	
127-18-4	LANL ECORISK	Surface Water Low Effect ESL	Aquatic community organisms	0.83000	
127-18-4	LANL ECORISK	Surface Water No Effect ESL	Montane shrew	8.90000	
127-18-4	LANL ECORISK	Surface Water No Effect ESL	Deer mouse	10.00000	
127-18-4	LANL ECORISK	Surface Water No Effect ESL	Occult little brown myotis bat	12.00000	
127-18-4	LANL ECORISK	Surface Water No Effect ESL	Mountain cottontail	20.00000	
127-18-4	LANL ECORISK	Surface Water No Effect ESL	Gray fox	23.00000	
127-18-4	LANL ECORISK	Surface Water Low Effect ESL	Montane shrew	44.00000	
127-18-4	LANL ECORISK	Surface Water Low Effect ESL	Deer mouse	52.00000	
127-18-4	LANL ECORISK	Surface Water Low Effect ESL	Occult little brown myotis bat	62.00000	
127-18-4	LANL ECORISK	Surface Water Low Effect ESL	Mountain cottontail	100.00000	
127-18-4	LANL ECORISK	Surface Water Low Effect ESL	Gray fox	110.00000	
127-18-4	ORNL	EC25 Bass Population	Not specified	0.05000	
127-18-4	ORNL	Tier II Secondary Chronic Value	Not specified	0.09800	
127-18-4	ORNL	EC20 Fish	Not specified	0.50000	
127-18-4	ORNL	EC20 Daphnids	Not specified	0.51000	
127-18-4	ORNL	SW Lowest Chronic Value – All Organisms	Not specified	0.75000	
127-18-4	ORNL	SW Lowest Chronic Value – Daphnids	Not specified	0.75000	
127-18-4	ORNL	Tier II Secondary Acute Value	Not specified	0.83000	
127-18-4	ORNL	SW Lowest Chronic Value – Fish	Not specified	0.84000	
127-18-4	ORNL	SW Lowest Chronic Value – Aquatic Plants	Not specified	816.00000	22

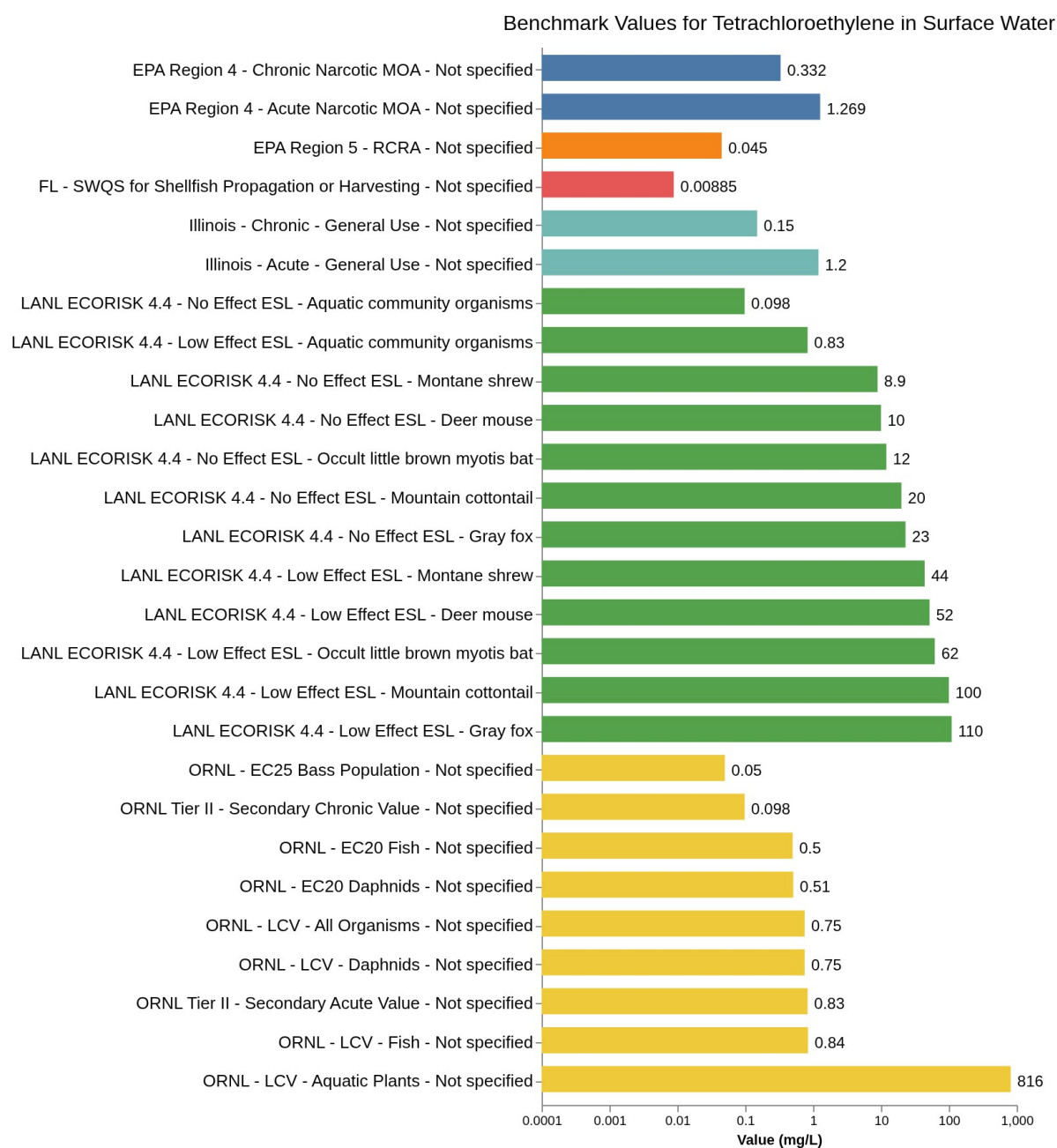
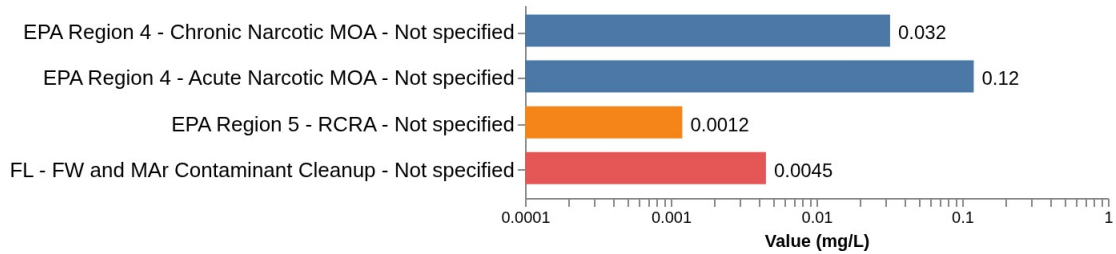


Table 497: Benchmark Values for Tetrachlorophenol, 2,3,4,6- in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
58-90-2	EPA Region 4	Freshwater and Saltwater Chronic Narcotic MOA	Not specified	0.0320
58-90-2	EPA Region 4	Freshwater and Saltwater Acute, Narcotic MOA	Not specified	0.1200
58-90-2	EPA Region 5	EPA RCRA Surface Water	Not specified	0.0012
58-90-2	Florida	Freshwater and Marine Water Contaminant Cleanup	Not specified	0.0045

Benchmark Values for Tetrachlorophenol, 2,3,4,6- in Surface Water**Table 498: Benchmark Values for Tetraethyl Dithiopyrophosphate in Surface Water**

CAS	Source	Benchmark	Organism	Value (mg/L)
3689-24-5	EPA Region 5	EPA RCRA Surface Water	Not specified	0.01390
3689-24-5	Florida	Freshwater and Marine Water Contaminant Cleanup	Not specified	0.00001

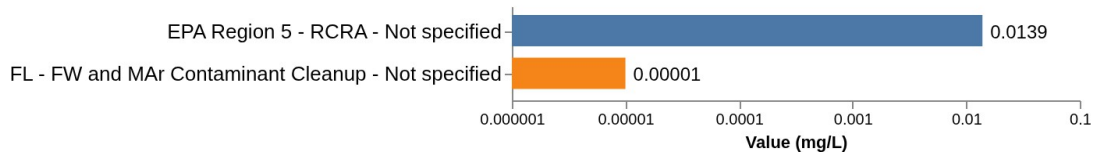
Benchmark Values for Tetraethyl Dithiopyrophosphate in Surface Water

Table 499: Benchmark Values for Tetrahydrofuran in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
109-99-9	EPA Region 4	Freshwater and Saltwater Chronic Narcotic MOA	Not specified	19.606
109-99-9	EPA Region 4	Freshwater and Saltwater Acute, Narcotic MOA	Not specified	68.203
109-99-9	Illinois	Chronic – General Use	Not specified	17.000
109-99-9	Illinois	Acute – General Use	Not specified	220.000

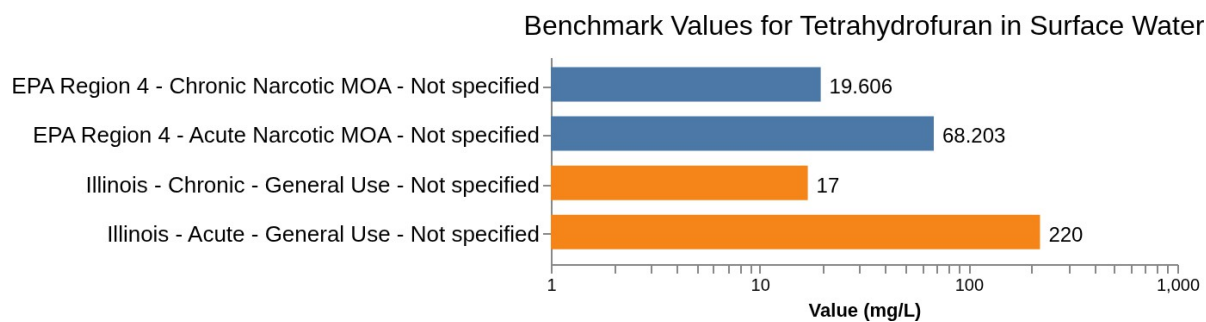


Table 500: Benchmark Values for Tetryl (Trinitrophenylmethylnitramine) in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
479-45-8	LANL ECORISK	Surface Water No Effect ESL	Montane shrew	5.8
479-45-8	LANL ECORISK	Surface Water No Effect ESL	Deer mouse	6.8
479-45-8	LANL ECORISK	Surface Water No Effect ESL	Occult little brown myotis bat	8.1
479-45-8	LANL ECORISK	Surface Water No Effect ESL	Mountain cottontail	13.0
479-45-8	LANL ECORISK	Surface Water No Effect ESL	Gray fox	15.0
479-45-8	LANL ECORISK	Surface Water Low Effect ESL	Montane shrew	27.0
479-45-8	LANL ECORISK	Surface Water Low Effect ESL	Deer mouse	32.0
479-45-8	LANL ECORISK	Surface Water Low Effect ESL	Occult little brown myotis bat	38.0
479-45-8	LANL ECORISK	Surface Water Low Effect ESL	Mountain cottontail	63.0
479-45-8	LANL ECORISK	Surface Water Low Effect ESL	Gray fox	72.0

Benchmark Values for Tetryl (Trinitrophenylmethylnitramine) in Surface Water

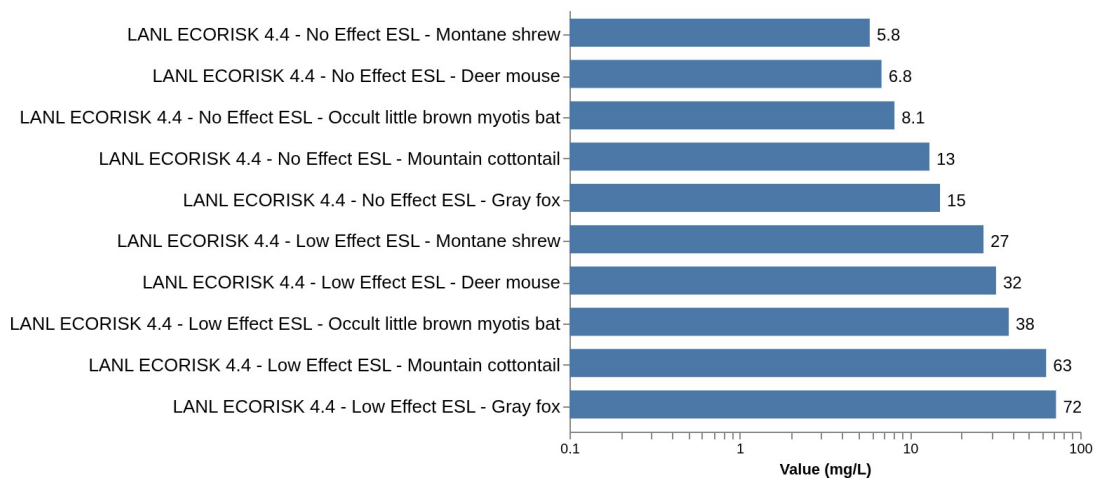


Table 501: Benchmark Values for Thallium (Soluble Salts) in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
7440-28-0	EPA Region 5	EPA RCRA Surface Water	Not specified	0.01000
7440-28-0	Florida	SWQS for Shellfish Propagation or Harvesting	Not specified	0.00630
7440-28-0	Illinois	Chronic – General Use	Not specified	0.01100
7440-28-0	Illinois	Chronic – Lake Michigan	Not specified	0.01500
7440-28-0	Illinois	Acute – Lake Michigan	Not specified	0.05400
7440-28-0	Illinois	Acute – General Use	Not specified	0.08600
7440-28-0	LANL ECORISK	Surface Water No Effect ESL	Aquatic community organisms	0.00003
7440-28-0	LANL ECORISK	Surface Water Low Effect ESL	Aquatic community organisms	0.00030
7440-28-0	LANL ECORISK	Surface Water No Effect ESL	Montane shrew	0.03100
7440-28-0	LANL ECORISK	Surface Water No Effect ESL	Deer mouse	0.03700
7440-28-0	LANL ECORISK	Surface Water No Effect ESL	Occult little brown myotis bat	0.04400
7440-28-0	LANL ECORISK	Surface Water No Effect ESL	Mountain cottontail	0.07300
7440-28-0	LANL ECORISK	Surface Water No Effect ESL	Gray fox	0.08200
7440-28-0	LANL ECORISK	Surface Water Low Effect ESL	Montane shrew	0.31000
7440-28-0	LANL ECORISK	Surface Water Low Effect ESL	Deer mouse	0.37000
7440-28-0	LANL ECORISK	Surface Water Low Effect ESL	Occult little brown myotis bat	0.44000
7440-28-0	LANL ECORISK	Surface Water Low Effect ESL	Mountain cottontail	0.73000
7440-28-0	LANL ECORISK	Surface Water Low Effect ESL	Gray fox	0.82000
7440-28-0	LANL ECORISK	Surface Water No Effect ESL	Violet-green swallow	1.40000
7440-28-0	LANL ECORISK	Surface Water No Effect ESL	American robin	2.50000
7440-28-0	LANL ECORISK	Surface Water No Effect ESL	American kestrel	2.90000
7440-28-0	LANL ECORISK	Surface Water Low Effect ESL	Violet-green swallow	14.00000
7440-28-0	LANL ECORISK	Surface Water Low Effect ESL	American robin	25.00000
7440-28-0	LANL ECORISK	Surface Water Low Effect ESL	American kestrel	29.00000
7440-28-0	ORNL	Tier II Secondary Chronic Value	Not specified	0.01200
7440-28-0	ORNL	SW Lowest Chronic Value – All Organisms	Not specified	0.05700
7440-28-0	ORNL	SW Lowest Chronic Value – Fish	Not specified	0.05700
7440-28-0	ORNL	EC20 Daphnids	Not specified	0.06400
7440-28-0	ORNL	EC25 Bass Population	Not specified	0.06700
7440-28-0	ORNL	EC20 Fish	Not specified	0.08100
7440-28-0	ORNL	SW Lowest Chronic Value – Aquatic Plants	Not specified	0.10000
7440-28-0	ORNL	Tier II Secondary Acute Value	Not specified	0.11000
7440-28-0	ORNL	SW Lowest Chronic Value – Daphnids	Not specified	0.13000

Benchmark Values for Thallium (Soluble Salts) in Surface Water

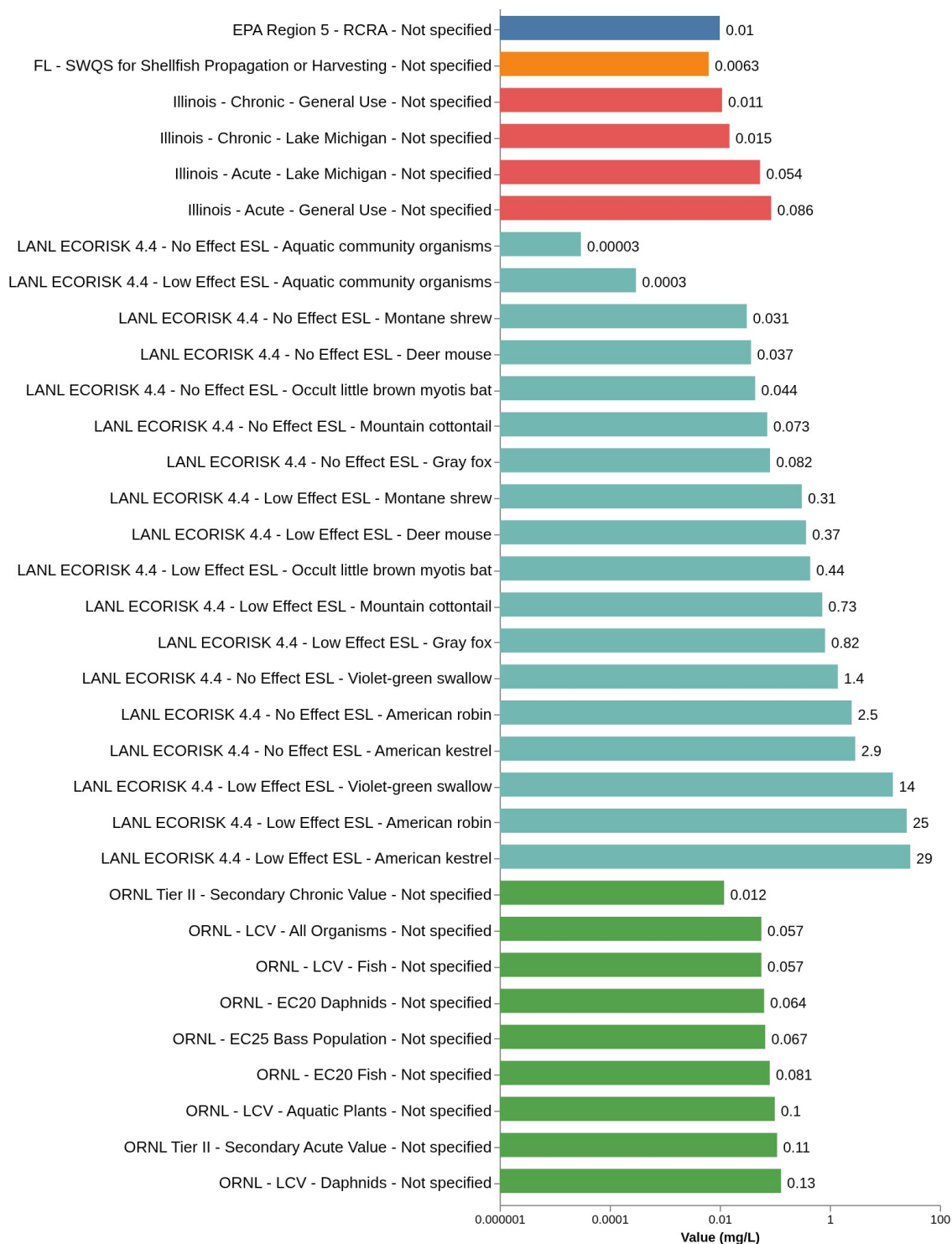


Table 502: Benchmark Values for Thallium Sulfate in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
7446-18-6	Florida	Freshwater and Marine Water Contaminant Cleanup	Not specified	0.026

Benchmark Values for Thallium Sulfate in Surface Water

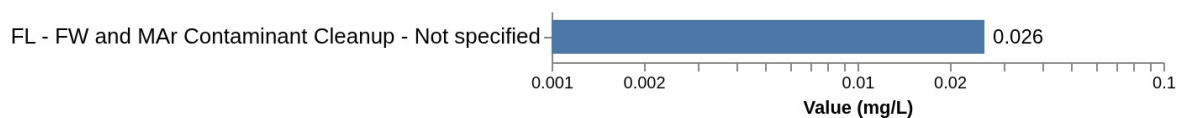


Table 503: Benchmark Values for Thiocyanic acid, (2-benzothiazolylthio)methyl ester (TCMTB) in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
21564-17-0	Florida	Freshwater and Marine Water Contaminant Cleanup	Not specified	0.0004

Benchmark Values for Thiocyanic acid, (2-benzothiazolylthio)methyl ester (TCMTB) in Surface Water

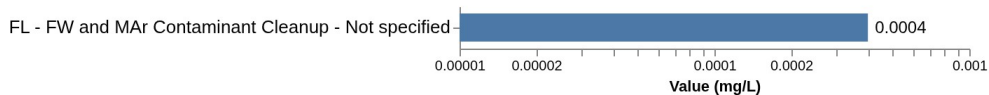


Table 504: Benchmark Values for Thiram in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
137-26-8	Florida	Freshwater and Marine Water Contaminant Cleanup	Not specified	0.0002

Benchmark Values for Thiram in Surface Water

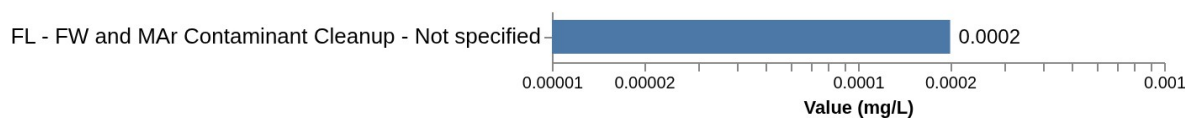


Table 505: Benchmark Values for Tin in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
7440-31-5	EPA Region 5	EPA RCRA Surface Water	Not specified	0.180
7440-31-5	ORNL	Tier II Secondary Chronic Value	Not specified	0.073
7440-31-5	ORNL	SW Lowest Chronic Value – All Organisms	Not specified	0.350
7440-31-5	ORNL	SW Lowest Chronic Value – Daphnids	Not specified	0.350
7440-31-5	ORNL	Tier II Secondary Acute Value	Not specified	2.700

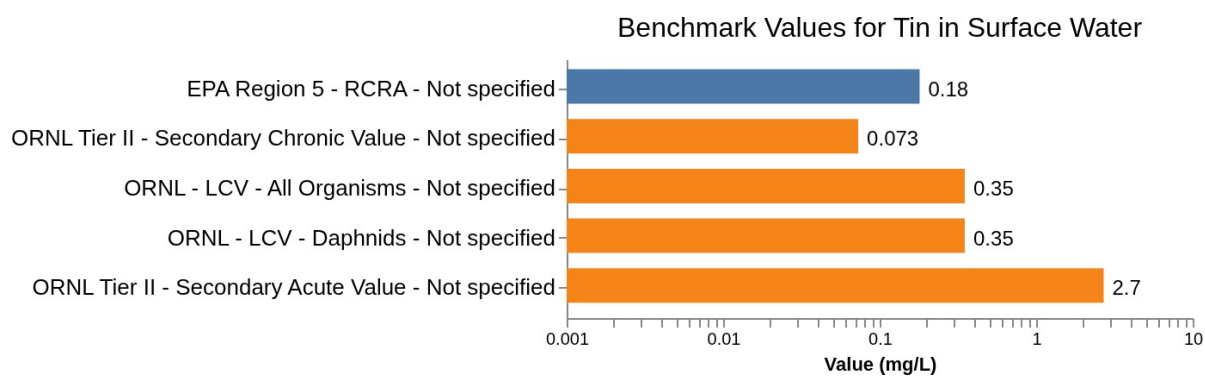


Table 506: Benchmark Values for Titanium in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
7440-32-6	LANL ECORISK	Surface Water No Effect ESL	Montane shrew	70
7440-32-6	LANL ECORISK	Surface Water No Effect ESL	Deer mouse	83
7440-32-6	LANL ECORISK	Surface Water No Effect ESL	Occult little brown myotis bat	99
7440-32-6	LANL ECORISK	Surface Water No Effect ESL	Mountain cottontail	160
7440-32-6	LANL ECORISK	Surface Water No Effect ESL	Gray fox	180
7440-32-6	LANL ECORISK	Surface Water Low Effect ESL	Montane shrew	700
7440-32-6	LANL ECORISK	Surface Water Low Effect ESL	Deer mouse	830
7440-32-6	LANL ECORISK	Surface Water Low Effect ESL	Occult little brown myotis bat	990
7440-32-6	LANL ECORISK	Surface Water Low Effect ESL	Mountain cottontail	1600
7440-32-6	LANL ECORISK	Surface Water Low Effect ESL	Gray fox	1800

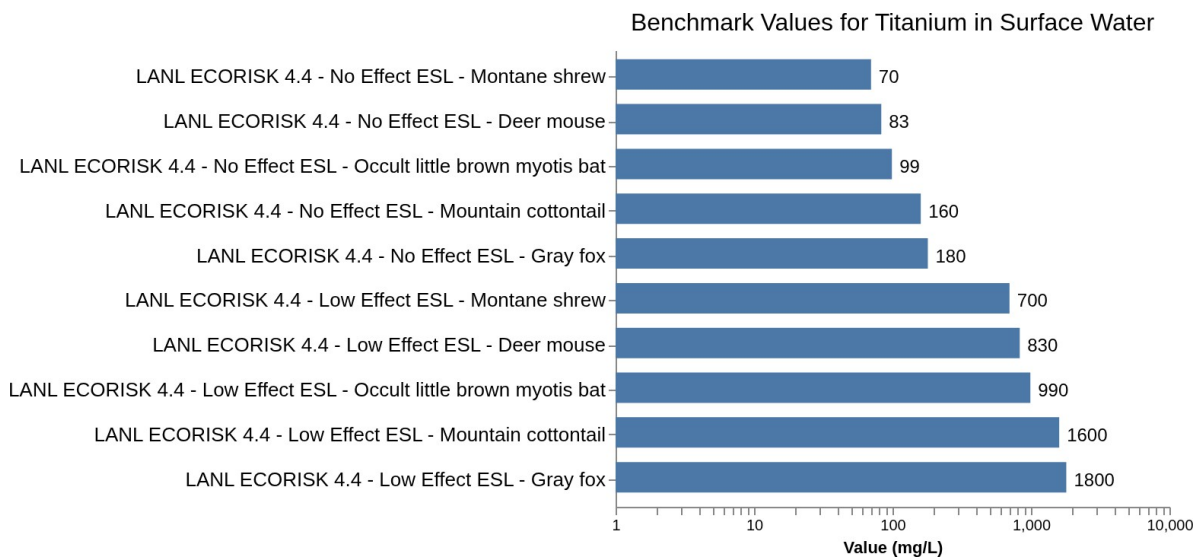


Table 507: Benchmark Values for Toluene in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
108-88-3	Canada	Water Livestock	Not specified	0.0240	
108-88-3	EPA Region 4	Freshwater and Saltwater Chronic Narcotic MOA	Not specified	0.7860	
108-88-3	EPA Region 4	Freshwater and Saltwater Acute, Narcotic MOA	Not specified	3.0050	
108-88-3	EPA Region 5	EPA RCRA Surface Water	Not specified	0.2530	
108-88-3	Florida	Freshwater and Marine Water Contaminant Cleanup	Not specified	0.4800	
108-88-3	LANL ECORISK	Surface Water No Effect ESL	Aquatic community organisms	0.0098	
108-88-3	LANL ECORISK	Surface Water Low Effect ESL	Aquatic community organisms	0.0980	
108-88-3	LANL ECORISK	Surface Water No Effect ESL	Montane shrew	110.0000	
108-88-3	LANL ECORISK	Surface Water No Effect ESL	Deer mouse	130.0000	
108-88-3	LANL ECORISK	Surface Water No Effect ESL	Occult little brown myotis bat	160.0000	
108-88-3	LANL ECORISK	Surface Water No Effect ESL	Mountain cottontail	260.0000	
108-88-3	LANL ECORISK	Surface Water No Effect ESL	Gray fox	300.0000	
108-88-3	LANL ECORISK	Surface Water Low Effect ESL	Montane shrew	1100.0000	
108-88-3	LANL ECORISK	Surface Water Low Effect ESL	Deer mouse	1300.0000	
108-88-3	LANL ECORISK	Surface Water Low Effect ESL	Occult little brown myotis bat	1600.0000	
108-88-3	LANL ECORISK	Surface Water Low Effect ESL	Mountain cottontail	2600.0000	
108-88-3	LANL ECORISK	Surface Water Low Effect ESL	Gray fox	3000.0000	
108-88-3	ORNL	Tier II Secondary Chronic Value	Not specified	0.0098	
108-88-3	ORNL	EC20 Fish	Not specified	0.0260	23, 31
108-88-3	ORNL	Tier II Secondary Acute Value	Not specified	0.1200	
108-88-3	ORNL	EC25 Bass Population	Not specified	0.2000	
108-88-3	ORNL	SW Lowest Chronic Value – All Organisms	Not specified	1.2690	24
108-88-3	ORNL	SW Lowest Chronic Value – Fish	Not specified	1.2700	24
108-88-3	ORNL	SW Lowest Chronic Value – Daphnids	Not specified	25.2000	24
108-88-3	ORNL	SW Lowest Chronic Value – Aquatic Plants	Not specified	245.0000	

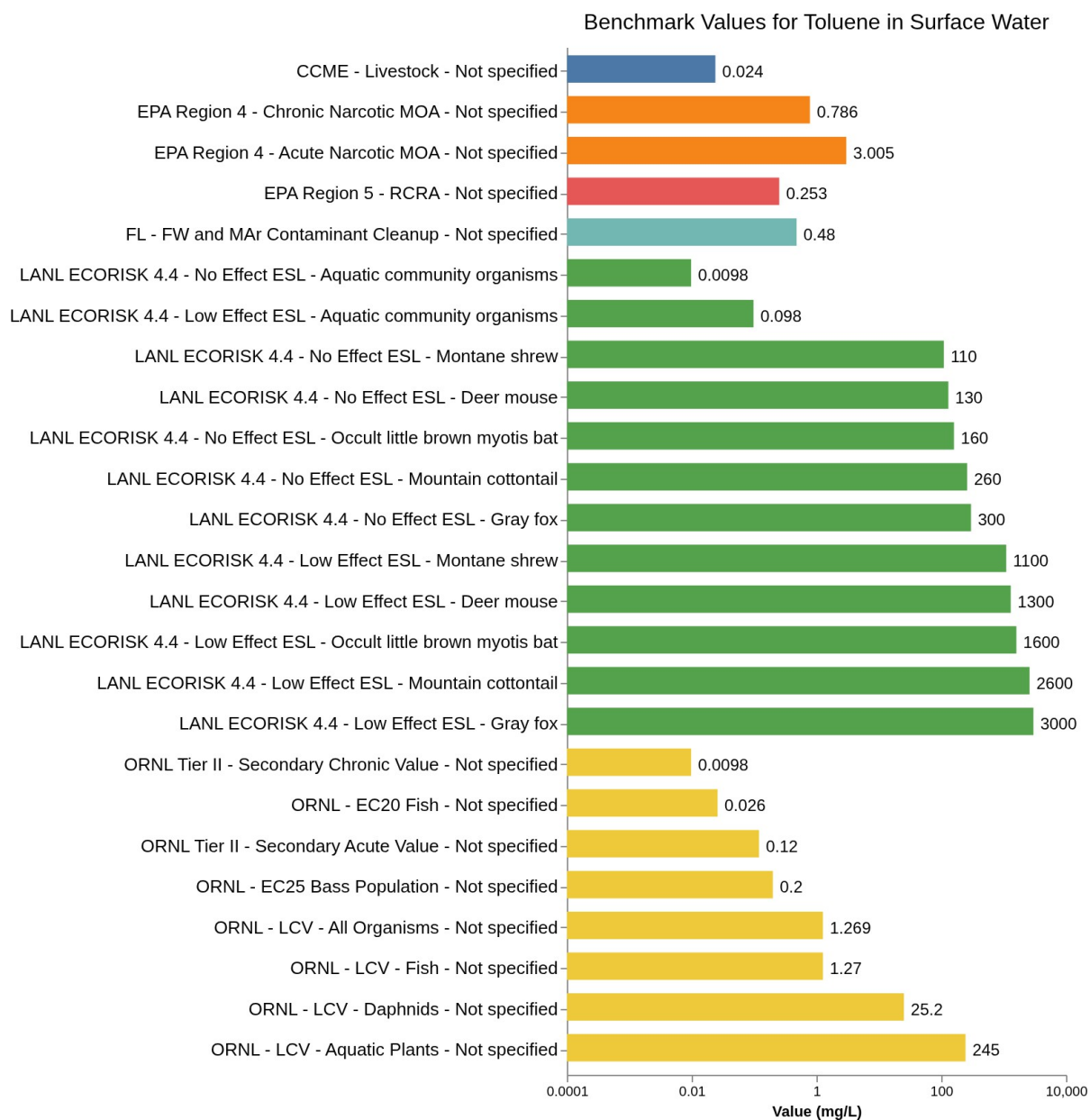


Table 508: Benchmark Values for Toluene–2,4–diisocyanate in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
584–84–9	Illinois	Chronic – General Use	Not specified	1.3	195
584–84–9	Illinois	Acute – General Use	Not specified	16.0	195

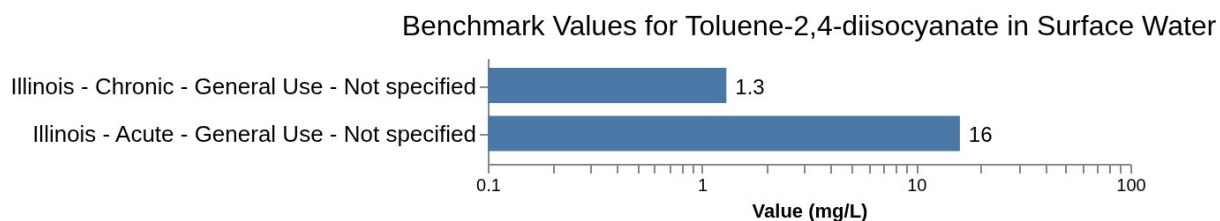


Table 509: Benchmark Values for Toluidine, o- (Methylaniline, 2-) in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
95-53-4	Florida	Freshwater and Marine Water Contaminant Cleanup	Not specified	0.026

Benchmark Values for Toluidine, o- (Methylaniline, 2-) in Surface Water

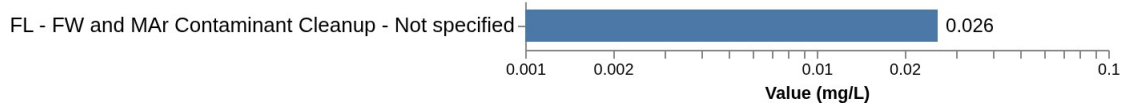


Table 510: Benchmark Values for Total dissolved solids (TDS) in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
000000-07-5	Canada	Water Livestock	Not specified	3000	
000000-07-5	Canada	Water Irrigation	Not specified		51

Benchmark Values for Total dissolved solids (TDS) in Surface Water

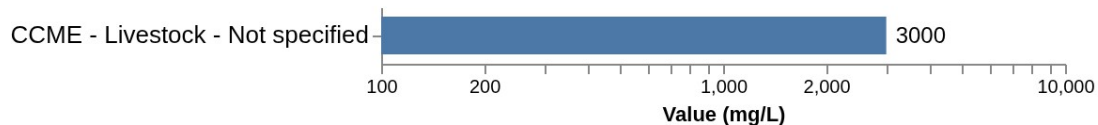


Table 511: Benchmark Values for Toxaphene in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
8001-35-2	EPA Region 5	EPA RCRA Surface Water	Not specified	1.400000e-07	
8001-35-2	Florida	SWQS for Shellfish Propagation or Harvesting	Not specified	2.000000e-07	
8001-35-2	Illinois	Chronic – General Use	Not specified	2.000000e-07	196, 197
8001-35-2	Illinois	Acute – General Use	Not specified	7.300000e-04	196, 197
8001-35-2	LANL ECORISK	Surface Water No Effect ESL	Aquatic community organisms	2.000000e-07	
8001-35-2	LANL ECORISK	Surface Water Low Effect ESL	Aquatic community organisms	2.000000e-06	
8001-35-2	LANL ECORISK	Surface Water No Effect ESL	Montane shrew	3.500000e+01	
8001-35-2	LANL ECORISK	Surface Water No Effect ESL	Violet-green swallow	4.100000e+01	
8001-35-2	LANL ECORISK	Surface Water No Effect ESL	Deer mouse	4.200000e+01	
8001-35-2	LANL ECORISK	Surface Water No Effect ESL	Occult little brown myotis bat	5.000000e+01	
8001-35-2	LANL ECORISK	Surface Water No Effect ESL	American robin	7.100000e+01	
8001-35-2	LANL ECORISK	Surface Water No Effect ESL	Mountain cottontail	8.200000e+01	
8001-35-2	LANL ECORISK	Surface Water No Effect ESL	American kestrel	8.300000e+01	
8001-35-2	LANL ECORISK	Surface Water No Effect ESL	Gray fox	9.300000e+01	
8001-35-2	LANL ECORISK	Surface Water Low Effect ESL	Montane shrew	3.500000e+02	
8001-35-2	LANL ECORISK	Surface Water Low Effect ESL	Violet-green swallow	4.100000e+02	
8001-35-2	LANL ECORISK	Surface Water Low Effect ESL	Deer mouse	4.200000e+02	
8001-35-2	LANL ECORISK	Surface Water Low Effect ESL	Occult little brown myotis bat	5.000000e+02	
8001-35-2	LANL ECORISK	Surface Water Low Effect ESL	American robin	7.100000e+02	
8001-35-2	LANL ECORISK	Surface Water Low Effect ESL	Mountain cottontail	8.200000e+02	
8001-35-2	LANL ECORISK	Surface Water Low Effect ESL	American kestrel	8.300000e+02	
8001-35-2	LANL ECORISK	Surface Water Low Effect ESL	Gray fox	9.300000e+02	

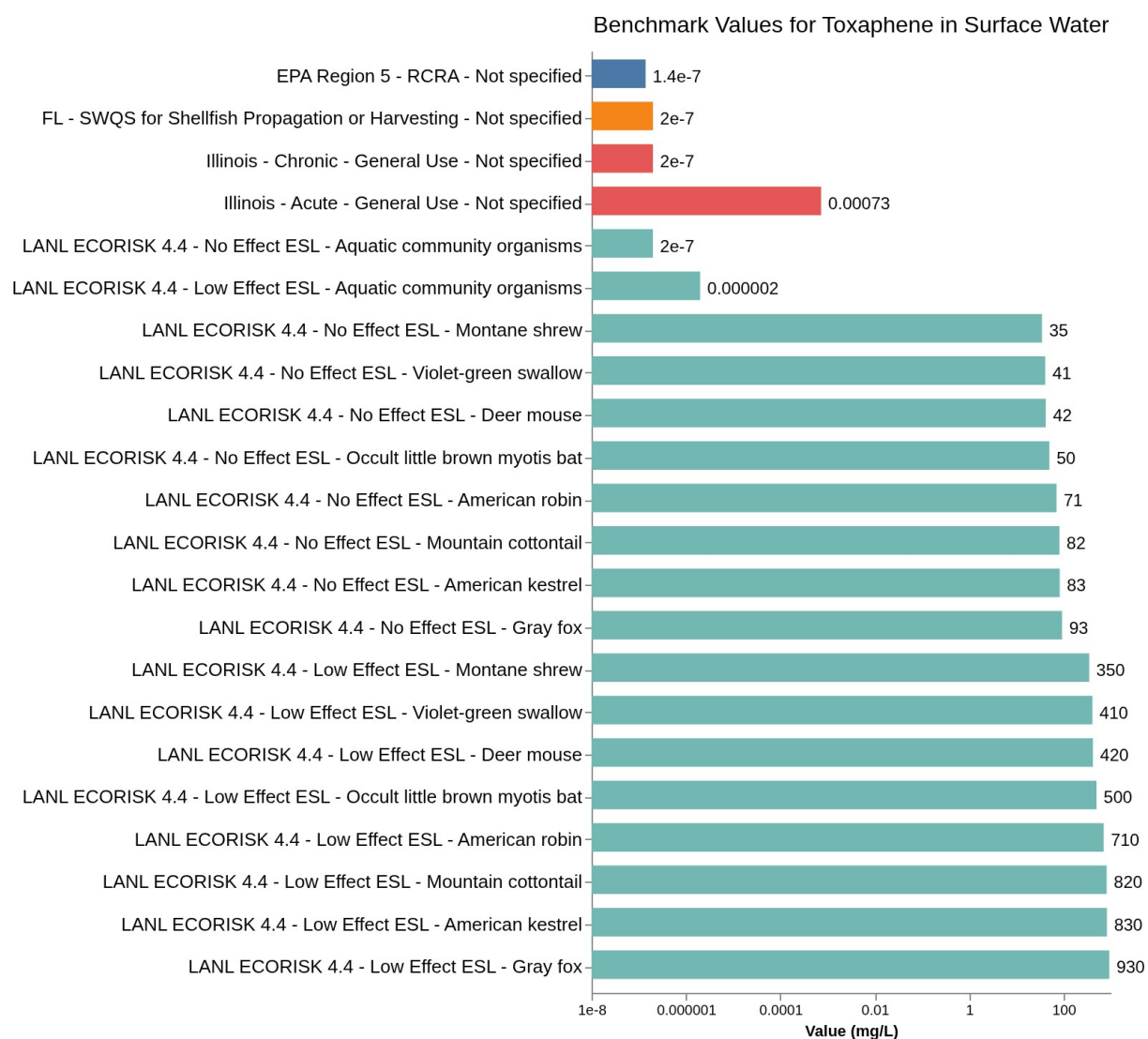


Table 512: Benchmark Values for Triadimefon in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
43121-43-3	Florida	Freshwater and Marine Water Contaminant Cleanup	Not specified	0.5

Benchmark Values for Triadimefon in Surface Water

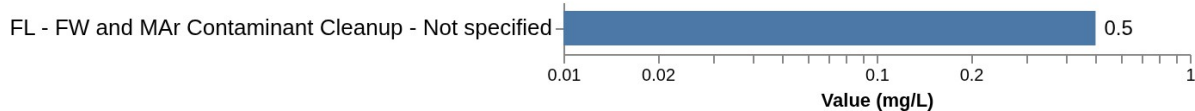


Table 513: Benchmark Values for Triallate in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
2303-17-5	Canada	Water Livestock	Not specified	0.230
2303-17-5	Florida	Freshwater and Marine Water Contaminant Cleanup	Not specified	0.065

Benchmark Values for Triallate in Surface Water

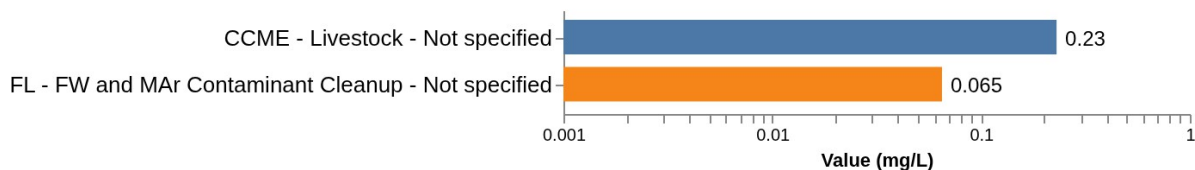


Table 514: Benchmark Values for Tribromochloromethane in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
594-15-0	ORNL	Tier II Secondary Chronic Value	Not specified	0.32
594-15-0	ORNL	Tier II Secondary Acute Value	Not specified	2.30

Benchmark Values for Tribromochloromethane in Surface Water

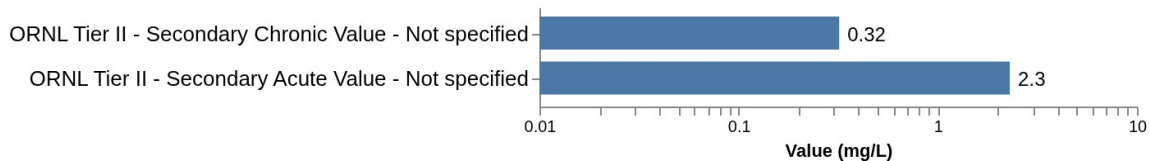


Table 515: Benchmark Values for Tribromophenol, 2,4,6- in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
118-79-6	EPA Region 4	Freshwater and Saltwater Chronic Narcotic MOA	Not specified	0.037
118-79-6	EPA Region 4	Freshwater and Saltwater Acute, Narcotic MOA	Not specified	0.140

Benchmark Values for Tribromophenol, 2,4,6- in Surface Water

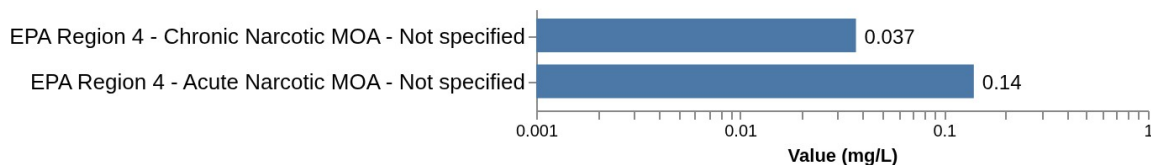


Table 516: Benchmark Values for Tribufos in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
78-48-8	Florida	Freshwater and Marine Water Contaminant Cleanup	Not specified	0.0002

Benchmark Values for Tribufos in Surface Water

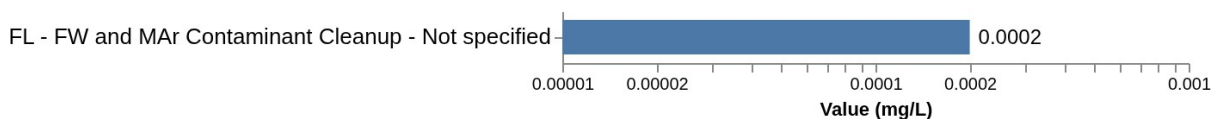


Table 517: Benchmark Values for Tributyltin Oxide in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
56-35-9	Florida	Freshwater and Marine Water Contaminant Cleanup	Not specified	0.00005

Benchmark Values for Tributyltin Oxide in Surface Water

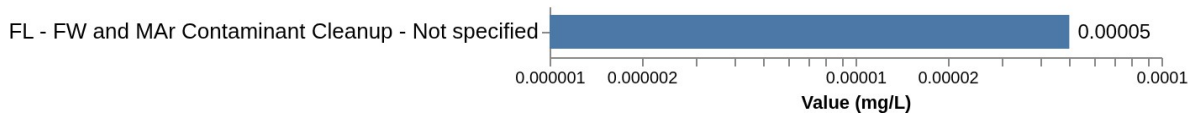


Table 518: Benchmark Values for Trichlorfon in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
52-68-6	Illinois	Chronic – General Use	Not specified	0.00001	195
52-68-6	Illinois	Acute – General Use	Not specified	0.00010	195

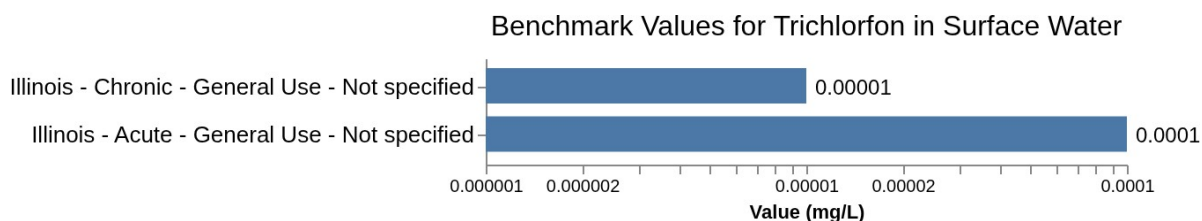


Table 519: Benchmark Values for Trichloroacetic Acid in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
76-03-9	Florida	Freshwater and Marine Water Contaminant Cleanup	Not specified	100.0

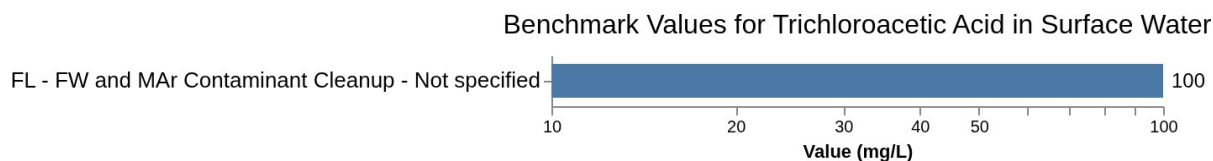


Table 520: Benchmark Values for Trichlorobenzene, 1,2,3- in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
87-61-6	EPA Region 4	Freshwater and Saltwater Chronic Narcotic MOA	Not specified	0.0350	
87-61-6	EPA Region 4	Freshwater and Saltwater Acute, Narcotic MOA	Not specified	0.1340	
87-61-6	Florida	Freshwater and Marine Water Contaminant Cleanup	Not specified	0.0850	
87-61-6	Illinois	Chronic – General Use	Not specified	0.0028	195
87-61-6	Illinois	Acute – General Use	Not specified	0.0350	195

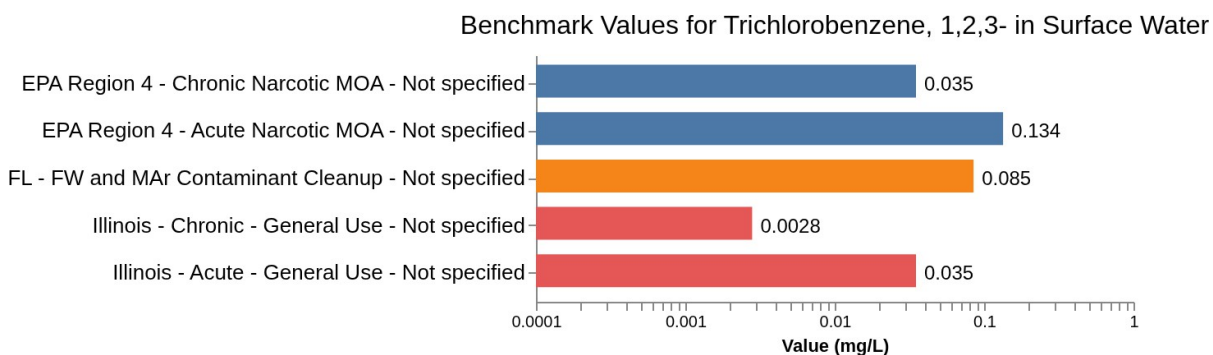


Table 521: Benchmark Values for Trichlorobenzene, 1,2,4- in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
120-82-1	EPA Region 4	Freshwater and Saltwater Chronic Narcotic MOA	Not specified	0.035
120-82-1	EPA Region 4	Freshwater and Saltwater Acute, Narcotic MOA	Not specified	0.134
120-82-1	EPA Region 5	EPA RCRA Surface Water	Not specified	0.030
120-82-1	Florida	Freshwater and Marine Water Contaminant Cleanup	Not specified	0.023
120-82-1	Illinois	Chronic – General Use	Not specified	0.072
120-82-1	Illinois	Acute – General Use	Not specified	0.370
120-82-1	LANL ECORISK	Surface Water No Effect ESL	Aquatic community organisms	0.024
120-82-1	LANL ECORISK	Surface Water Low Effect ESL	Aquatic community organisms	0.240
120-82-1	LANL ECORISK	Surface Water No Effect ESL	Montane shrew	6.600
120-82-1	LANL ECORISK	Surface Water No Effect ESL	Deer mouse	7.700
120-82-1	LANL ECORISK	Surface Water No Effect ESL	Occult little brown myotis bat	9.300
120-82-1	LANL ECORISK	Surface Water No Effect ESL	Mountain cottontail	15.000
120-82-1	LANL ECORISK	Surface Water No Effect ESL	Gray fox	17.000
120-82-1	LANL ECORISK	Surface Water Low Effect ESL	Montane shrew	66.000
120-82-1	LANL ECORISK	Surface Water Low Effect ESL	Deer mouse	77.000
120-82-1	LANL ECORISK	Surface Water Low Effect ESL	Occult little brown myotis bat	93.000
120-82-1	LANL ECORISK	Surface Water Low Effect ESL	Mountain cottontail	150.000
120-82-1	LANL ECORISK	Surface Water Low Effect ESL	Gray fox	170.000
120-82-1	ORNL	Tier II Secondary Chronic Value	Not specified	0.110
120-82-1	ORNL	Tier II Secondary Acute Value	Not specified	0.700

Benchmark Values for Trichlorobenzene, 1,2,4- in Surface Water

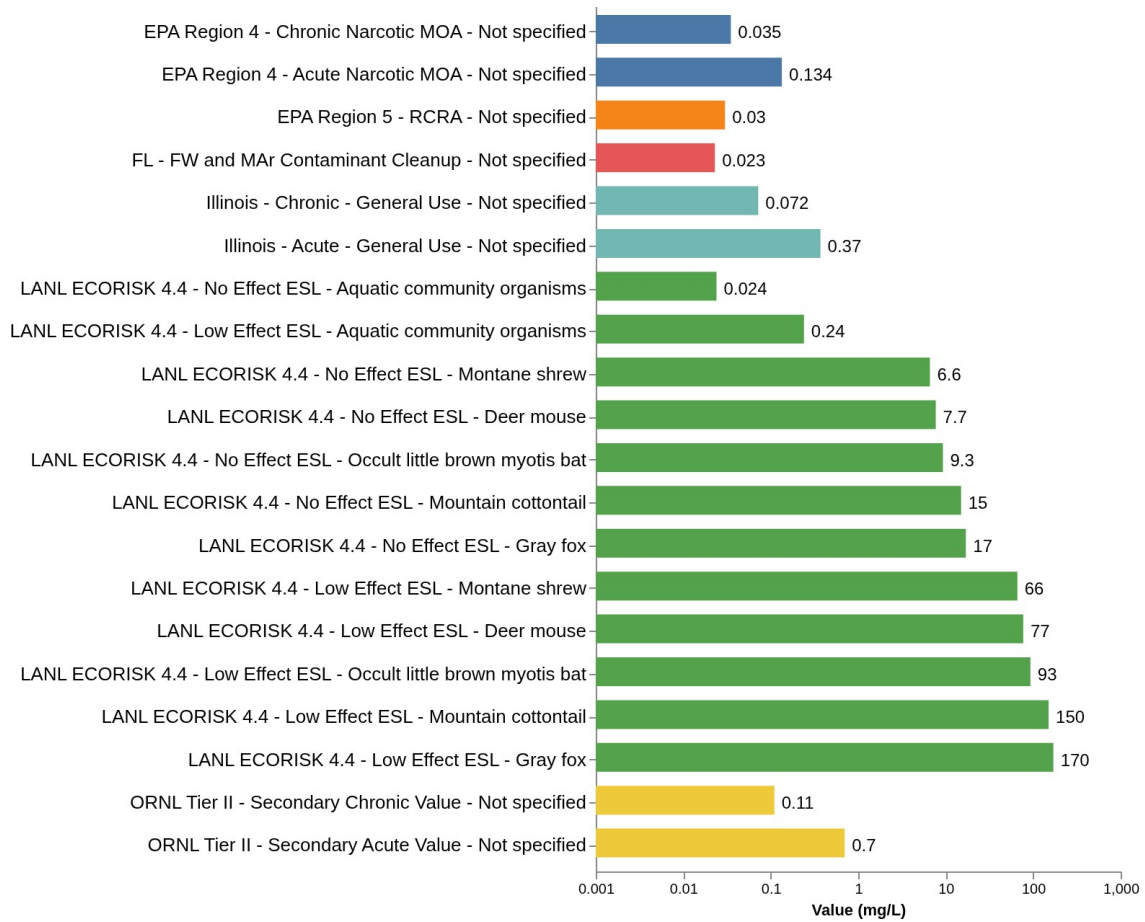


Table 522: Benchmark Values for Trichlorobenzene, 1,3,5- in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
108-70-3	EPA Region 4	Freshwater and Saltwater Chronic Narcotic MOA	Not specified	0.035	
108-70-3	EPA Region 4	Freshwater and Saltwater Acute, Narcotic MOA	Not specified	0.134	
108-70-3	Illinois	Chronic – General Use	Not specified	0.030	195
108-70-3	Illinois	Acute – General Use	Not specified	0.330	195

Benchmark Values for Trichlorobenzene, 1,3,5- in Surface Water

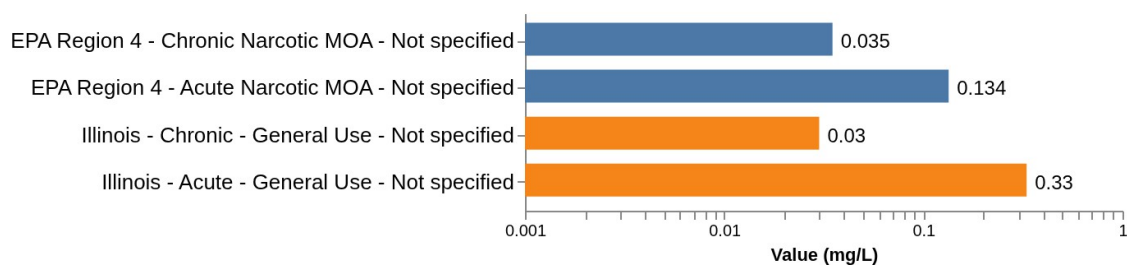


Table 523: Benchmark Values for Trichlorobenzene in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
12002-48-1	EPA Region 4	Freshwater and Saltwater Chronic Narcotic MOA	Not specified	0.035
12002-48-1	EPA Region 4	Freshwater and Saltwater Acute, Narcotic MOA	Not specified	0.134
12002-48-1	ORNL	Tier II Secondary Acute Value	Not specified	0.700

Benchmark Values for Trichlorobenzene in Surface Water

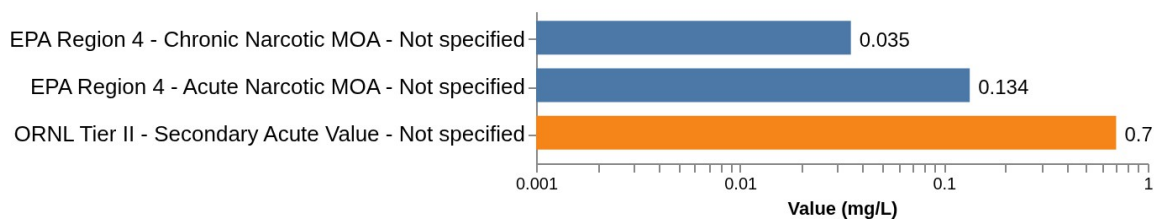


Table 524: Benchmark Values for Trichloroethane, 1,1,1- in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
71-55-6	EPA Region 4	Freshwater and Saltwater Chronic Narcotic MOA	Not specified	0.496	
71-55-6	EPA Region 4	Freshwater and Saltwater Acute, Narcotic MOA	Not specified	1.896	
71-55-6	EPA Region 5	EPA RCRA Surface Water	Not specified	0.076	
71-55-6	Florida	Freshwater and Marine Water Contaminant Cleanup	Not specified	0.270	
71-55-6	Illinois	Chronic – General Use	Not specified	0.390	
71-55-6	Illinois	Acute – General Use	Not specified	4.900	
71-55-6	LANL ECORISK	Surface Water No Effect ESL	Aquatic community organisms	0.011	
71-55-6	LANL ECORISK	Surface Water Low Effect ESL	Aquatic community organisms	0.110	
71-55-6	LANL ECORISK	Surface Water No Effect ESL	Montane shrew	4400.000	
71-55-6	LANL ECORISK	Surface Water No Effect ESL	Deer mouse	5200.000	
71-55-6	LANL ECORISK	Surface Water No Effect ESL	Occult little brown myotis bat	6200.000	
71-55-6	LANL ECORISK	Surface Water No Effect ESL	Mountain cottontail	10000.000	
71-55-6	LANL ECORISK	Surface Water No Effect ESL	Gray fox	11000.000	
71-55-6	LANL ECORISK	Surface Water Low Effect ESL	Montane shrew	44000.000	
71-55-6	LANL ECORISK	Surface Water Low Effect ESL	Deer mouse	52000.000	
71-55-6	LANL ECORISK	Surface Water Low Effect ESL	Occult little brown myotis bat	62000.000	
71-55-6	LANL ECORISK	Surface Water Low Effect ESL	Mountain cottontail	100000.000	
71-55-6	LANL ECORISK	Surface Water Low Effect ESL	Gray fox	110000.000	
71-55-6	ORNL	Tier II Secondary Chronic Value	Not specified	0.011	
71-55-6	ORNL	Tier II Secondary Acute Value	Not specified	0.200	
71-55-6	ORNL	EC25 Bass Population	Not specified	0.251	
71-55-6	ORNL	EC20 Daphnids	Not specified	1.300	31
71-55-6	ORNL	EC20 Fish	Not specified	2.460	29
71-55-6	ORNL	SW Lowest Chronic Value – Fish	Not specified	3.490	24
71-55-6	ORNL	SW Lowest Chronic Value – All Organisms	Not specified	3.493	24
71-55-6	ORNL	SW Lowest Chronic Value – Aquatic Plants	Not specified	669.000	22

Benchmark Values for Trichloroethane, 1,1,1- in Surface Water

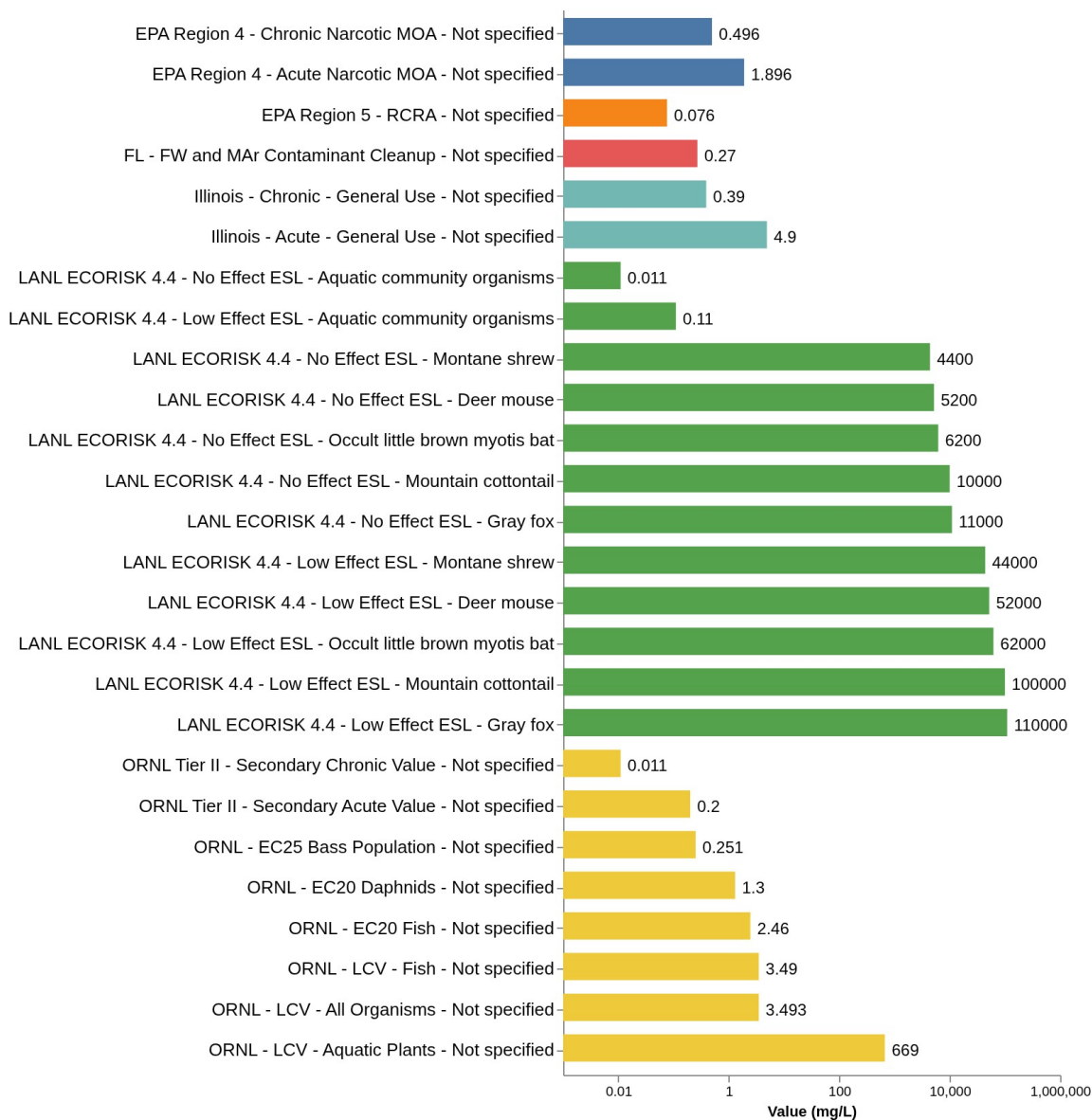


Table 525: Benchmark Values for Trichloroethane, 1,1,2- in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
79-00-5	EPA Region 4	Freshwater and Saltwater Chronic Narcotic MOA	Not specified	2.097
79-00-5	EPA Region 4	Freshwater and Saltwater Acute, Narcotic MOA	Not specified	8.026
79-00-5	EPA Region 5	EPA RCRA Surface Water	Not specified	0.500
79-00-5	Illinois	Chronic – General Use	Not specified	4.400
79-00-5	Illinois	Acute – General Use	Not specified	19.000
79-00-5	ORNL	Tier II Secondary Chronic Value	Not specified	1.200
79-00-5	ORNL	Tier II Secondary Acute Value	Not specified	5.200
79-00-5	ORNL	SW Lowest Chronic Value – All Organisms	Not specified	9.400
79-00-5	ORNL	SW Lowest Chronic Value – Fish	Not specified	9.400
79-00-5	ORNL	EC20 Daphnids	Not specified	13.000
79-00-5	ORNL	EC20 Fish	Not specified	14.800
79-00-5	ORNL	EC25 Bass Population	Not specified	15.800
79-00-5	ORNL	SW Lowest Chronic Value – Daphnids	Not specified	18.400

Benchmark Values for Trichloroethane, 1,1,2- in Surface Water

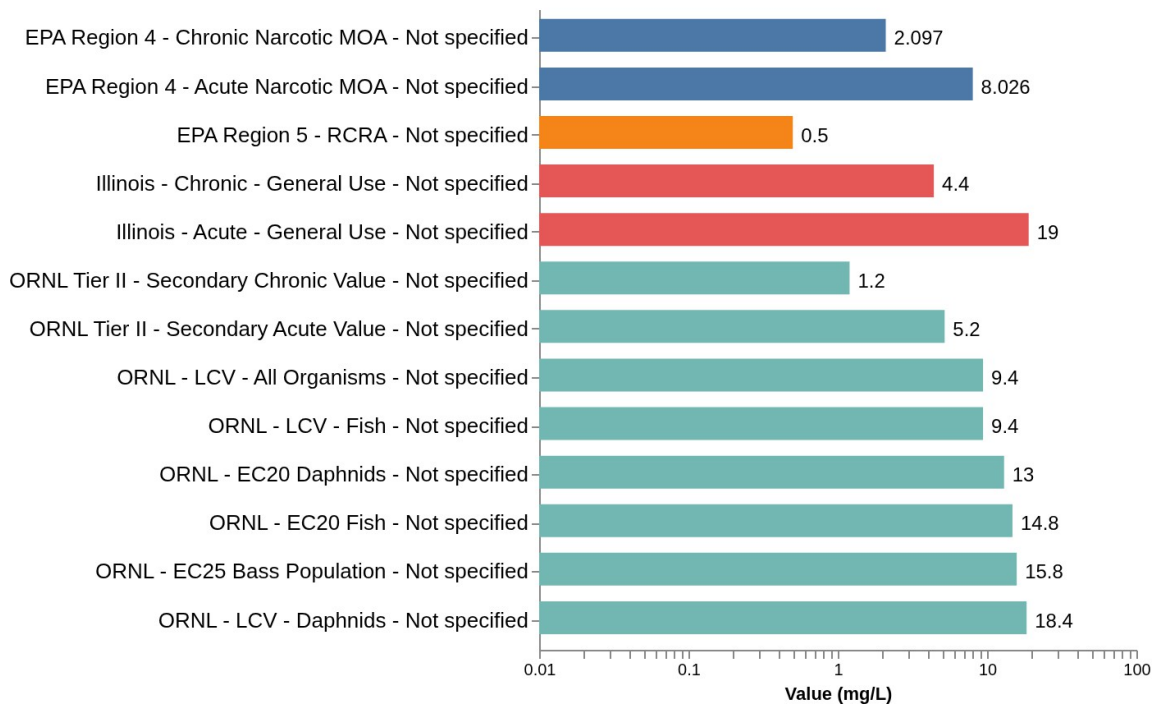


Table 526: Benchmark Values for Trichloroethylene in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
79-01-6	Canada	Water Livestock	Not specified	0.0500	
79-01-6	EPA Region 4	Freshwater and Saltwater Chronic Narcotic MOA	Not specified	0.7630	
79-01-6	EPA Region 4	Freshwater and Saltwater Acute, Narcotic MOA	Not specified	2.9160	
79-01-6	EPA Region 5	EPA RCRA Surface Water	Not specified	0.0470	
79-01-6	Florida	SWQS for Shellfish Propagation or Harvesting	Not specified	0.0807	
79-01-6	Illinois	Chronic – General Use	Not specified	0.9400	
79-01-6	Illinois	Acute – General Use	Not specified	12.0000	
79-01-6	LANL ECORISK	Surface Water No Effect ESL	Aquatic community organisms	0.0210	
79-01-6	LANL ECORISK	Surface Water Low Effect ESL	Aquatic community organisms	0.2100	
79-01-6	LANL ECORISK	Surface Water No Effect ESL	Montane shrew	440.0000	
79-01-6	LANL ECORISK	Surface Water No Effect ESL	Deer mouse	520.0000	
79-01-6	LANL ECORISK	Surface Water No Effect ESL	Occult little brown myotis bat	620.0000	
79-01-6	LANL ECORISK	Surface Water No Effect ESL	Mountain cottontail	1000.0000	
79-01-6	LANL ECORISK	Surface Water No Effect ESL	Gray fox	1100.0000	
79-01-6	LANL ECORISK	Surface Water Low Effect ESL	Montane shrew	4400.0000	
79-01-6	LANL ECORISK	Surface Water Low Effect ESL	Deer mouse	5200.0000	
79-01-6	LANL ECORISK	Surface Water Low Effect ESL	Occult little brown myotis bat	6200.0000	
79-01-6	LANL ECORISK	Surface Water Low Effect ESL	Mountain cottontail	10000.0000	
79-01-6	LANL ECORISK	Surface Water Low Effect ESL	Gray fox	11000.0000	
79-01-6	ORNL	Tier II Secondary Chronic Value	Not specified	0.0470	
79-01-6	ORNL	EC25 Bass Population	Not specified	0.2320	
79-01-6	ORNL	Tier II Secondary Acute Value	Not specified	0.4400	
79-01-6	ORNL	EC20 Fish	Not specified	5.7600	
79-01-6	ORNL	SW Lowest Chronic Value – All Organisms	Not specified	7.2570	24
79-01-6	ORNL	SW Lowest Chronic Value – Daphnids	Not specified	7.2600	24
79-01-6	ORNL	SW Lowest Chronic Value – Fish	Not specified	11.1000	

Benchmark Values for Trichloroethylene in Surface Water

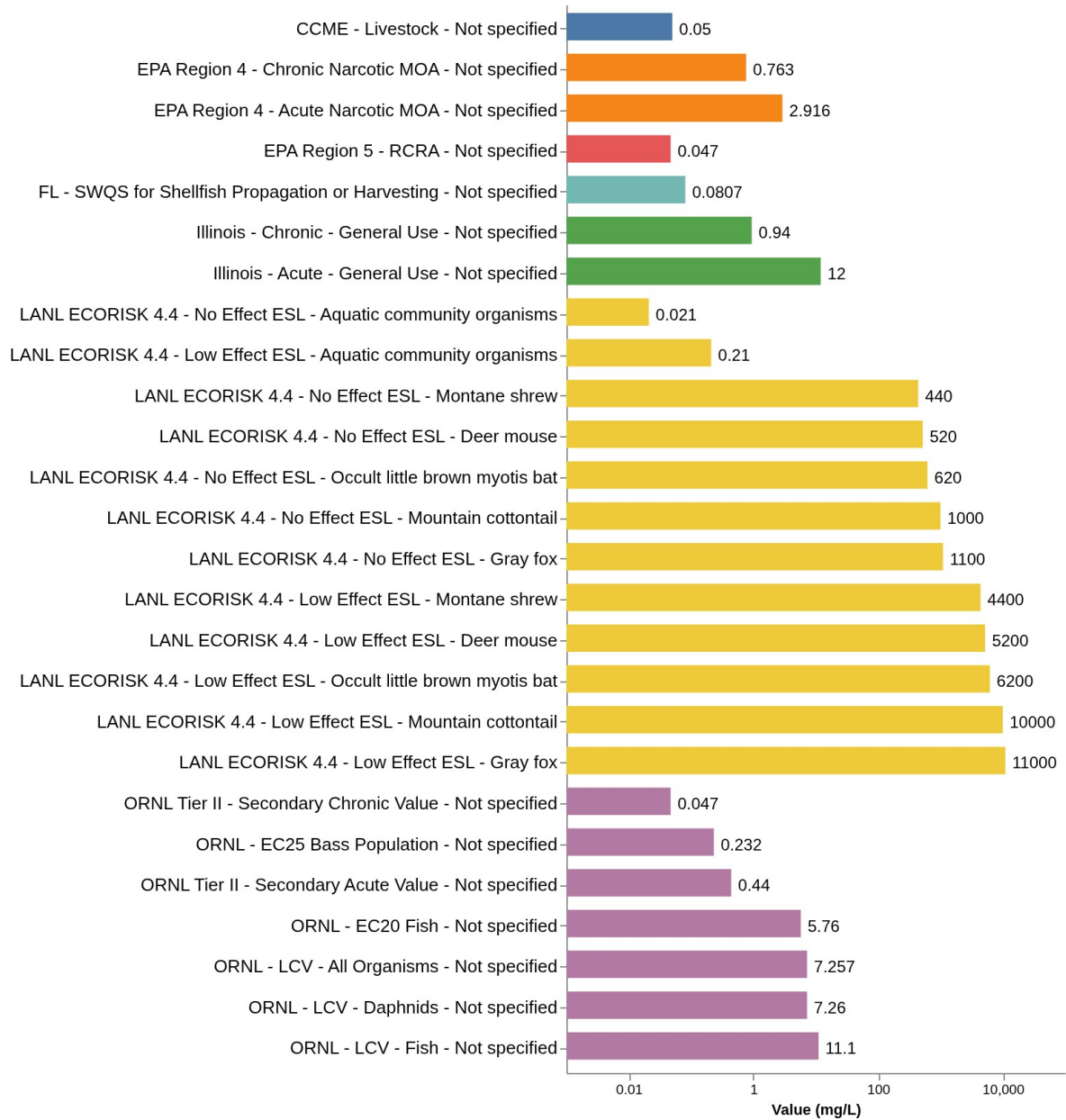


Table 527: Benchmark Values for Trichlorophenol, 2,4,5- in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
95-95-4	Florida	Freshwater and Marine Water Contaminant Cleanup	Not specified	0.023

Benchmark Values for Trichlorophenol, 2,4,5- in Surface Water

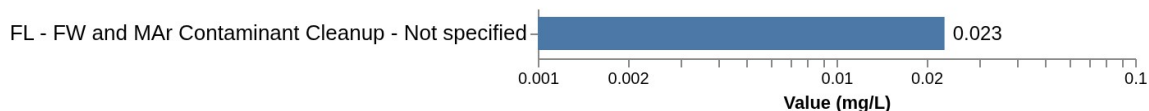


Table 528: Benchmark Values for Trichlorophenol, 2,4,6- in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
88-06-2	EPA Region 5	EPA RCRA Surface Water	Not specified	0.0049
88-06-2	Florida	SWQS for Shellfish Propagation or Harvesting	Not specified	0.0065
88-06-2	Illinois	Chronic - General Use	Not specified	0.0063
88-06-2	Illinois	Acute - General Use	Not specified	0.0410

Benchmark Values for Trichlorophenol, 2,4,6- in Surface Water

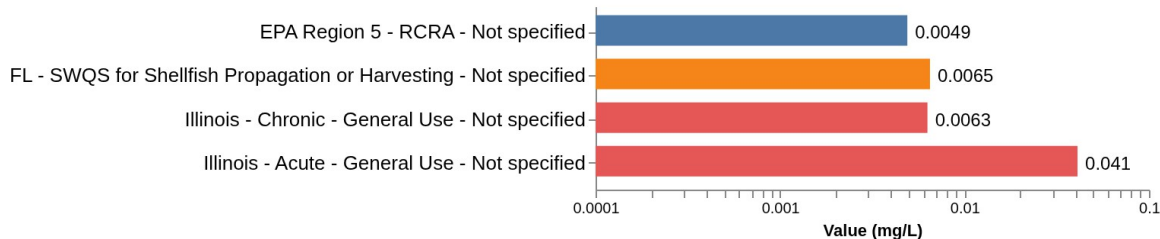


Table 529: Benchmark Values for Trichlorophenols (total) in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
25167-82-2	Illinois	Chronic - General Use	Not specified	0.0095
25167-82-2	Illinois	Acute - General Use	Not specified	0.1200

Benchmark Values for Trichlorophenols (total) in Surface Water

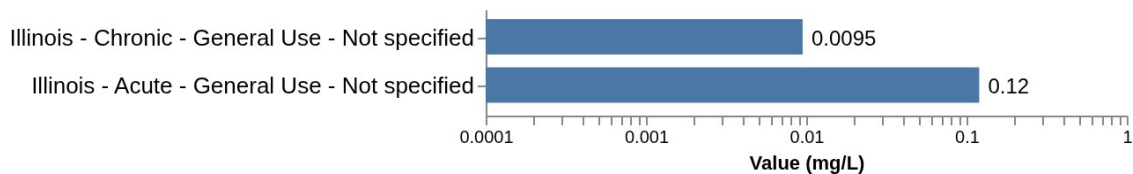


Table 530: Benchmark Values for Trichlorophenoxyacetic Acid, 2,4,5- in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
93-76-5	EPA Region 5	EPA RCRA Surface Water	Not specified	0.686
93-76-5	Florida	Freshwater and Marine Water Contaminant Cleanup	Not specified	0.140

Benchmark Values for Trichlorophenoxyacetic Acid, 2,4,5- in Surface Water

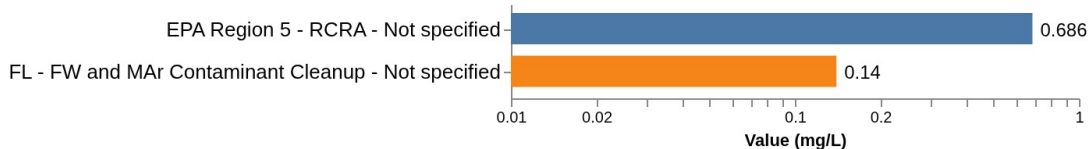


Table 531: Benchmark Values for Trichlorophenoxypropionic acid, -2,4,5 in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
93-72-1	EPA Region 5	EPA RCRA Surface Water	Not specified	0.03

Benchmark Values for Trichlorophenoxypropionic acid, -2,4,5 in Surface Water

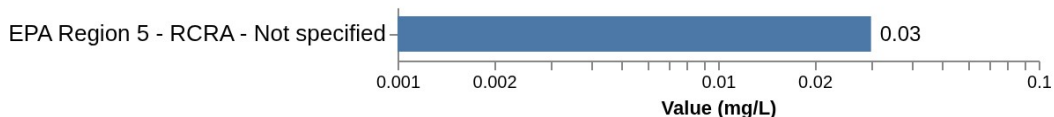


Table 532: Benchmark Values for Tricyclohexyltin in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
3047-10-7	Canada	Water Livestock	Not specified	0.25

Benchmark Values for Tricyclohexyltin in Surface Water

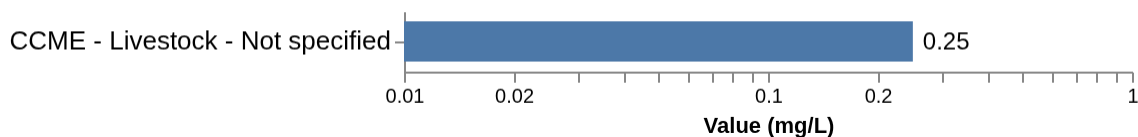


Table 533: Benchmark Values for Triethyl phosphorothioate [O,O,O-] in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
126-68-1	EPA Region 5	EPA RCRA Surface Water	Not specified	0.0582

Benchmark Values for Triethyl phosphorothioate [O,O,O-] in Surface Water

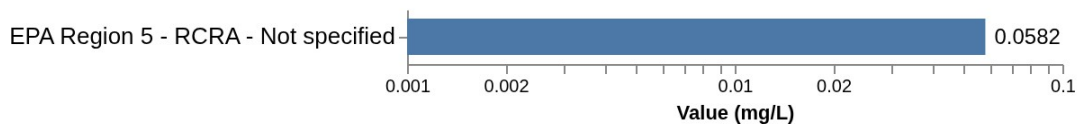


Table 534: Benchmark Values for Trifluralin in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
1582-09-8	Canada	Water Livestock	Not specified	0.0450
1582-09-8	Illinois	Chronic – General Use	Not specified	0.0011
1582-09-8	Illinois	Acute – General Use	Not specified	0.0260

Benchmark Values for Trifluralin in Surface Water

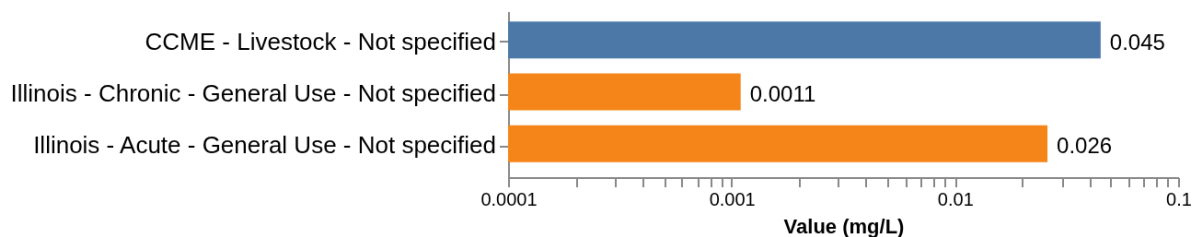


Table 535: Benchmark Values for Trimethylbenzene, 1,2,4- in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
95-63-6	EPA Region 4	Freshwater and Saltwater Chronic Narcotic MOA	Not specified	0.056
95-63-6	EPA Region 4	Freshwater and Saltwater Acute, Narcotic MOA	Not specified	0.366
95-63-6	Florida	Freshwater and Marine Water Contaminant Cleanup	Not specified	0.220
95-63-6	Illinois	Chronic – General Use	Not specified	0.029
95-63-6	Illinois	Acute – General Use	Not specified	0.360

Benchmark Values for Trimethylbenzene, 1,2,4- in Surface Water

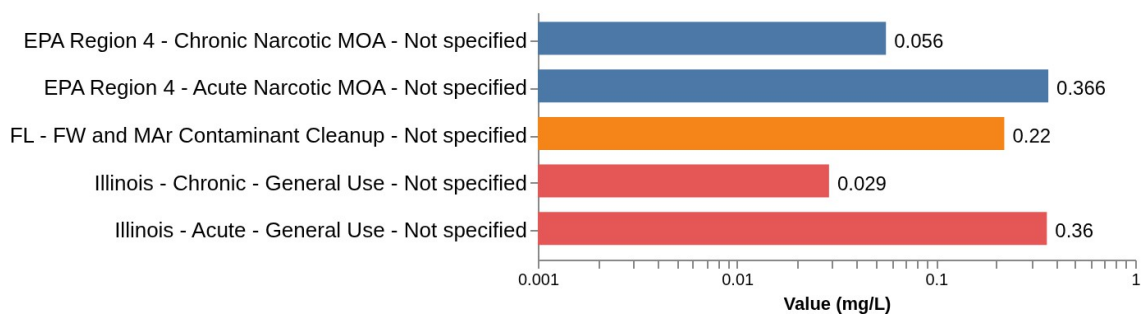


Table 536: Benchmark Values for Trimethylbenzene, 1,3,5- in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
108-67-8	EPA Region 4	Freshwater and Saltwater Chronic Narcotic MOA	Not specified	0.056	
108-67-8	EPA Region 4	Freshwater and Saltwater Acute, Narcotic MOA	Not specified	0.366	
108-67-8	Florida	Freshwater and Marine Water Contaminant Cleanup	Not specified	0.220	
108-67-8	Illinois	Chronic – General Use	Not specified	0.011	195
108-67-8	Illinois	Acute – General Use	Not specified	0.140	195

Benchmark Values for Trimethylbenzene, 1,3,5- in Surface Water

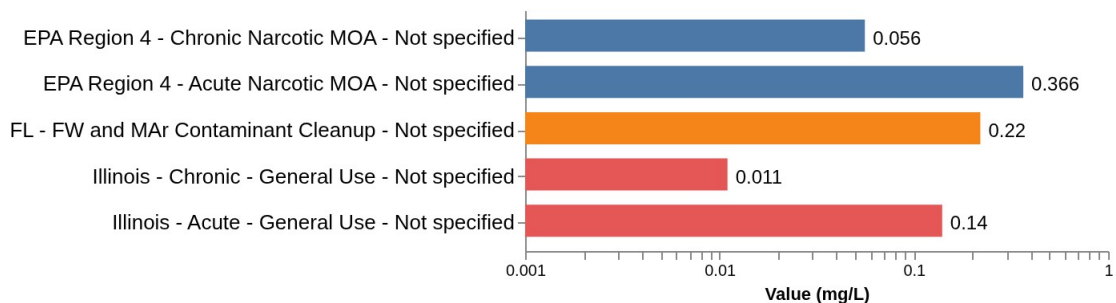


Table 537: Benchmark Values for Trimethylnaphthalene, 1,4,5- in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
2131-14-1	EPA ESBs	Final Chronic Value	Not specified	0.009488

Benchmark Values for Trimethylnaphthalene, 1,4,5- in Surface Water

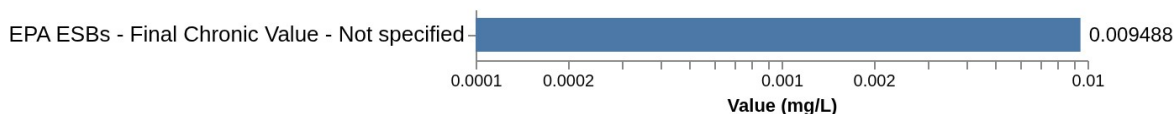


Table 538: Benchmark Values for Trimethylnaphthalene, 2,3,5- in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
2245-38-7	EPA ESBs	Final Chronic Value	Not specified	0.009785
2245-38-7	EPA Region 4	Freshwater and Saltwater Acute for PAHs	Not specified	0.000000
2245-38-7	EPA Region 4	Freshwater and Saltwater Chronic for PAHs	Not specified	0.010000

Benchmark Values for Trimethylnaphthalene, 2,3,5- in Surface Water

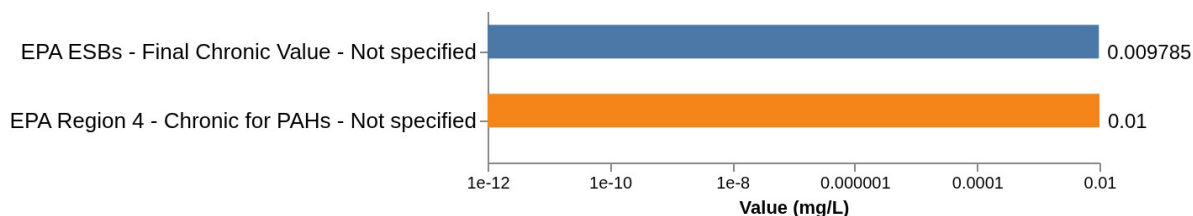


Table 539: Benchmark Values for Tri-n-butyltin in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
688-73-3	Canada	Water Livestock	Not specified	0.25

Benchmark Values for Tri-n-butyltin in Surface Water

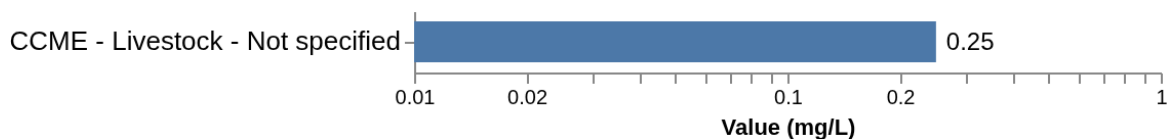


Table 540: Benchmark Values for Trinitrobenzene, 1,3,5- in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
99-35-4	Florida	Freshwater and Marine Water Contaminant Cleanup	Not specified	0.019
99-35-4	Illinois	Chronic – General Use	Not specified	0.015
99-35-4	Illinois	Acute – General Use	Not specified	0.038
99-35-4	LANL ECORISK	Surface Water No Effect ESL	Montane shrew	60.000
99-35-4	LANL ECORISK	Surface Water No Effect ESL	Deer mouse	70.000
99-35-4	LANL ECORISK	Surface Water No Effect ESL	Occult little brown myotis bat	84.000
99-35-4	LANL ECORISK	Surface Water No Effect ESL	Mountain cottontail	130.000
99-35-4	LANL ECORISK	Surface Water No Effect ESL	Gray fox	150.000
99-35-4	LANL ECORISK	Surface Water Low Effect ESL	Montane shrew	600.000
99-35-4	LANL ECORISK	Surface Water Low Effect ESL	Deer mouse	700.000
99-35-4	LANL ECORISK	Surface Water Low Effect ESL	Occult little brown myotis bat	840.000
99-35-4	LANL ECORISK	Surface Water Low Effect ESL	Mountain cottontail	1300.000
99-35-4	LANL ECORISK	Surface Water Low Effect ESL	Gray fox	1500.000

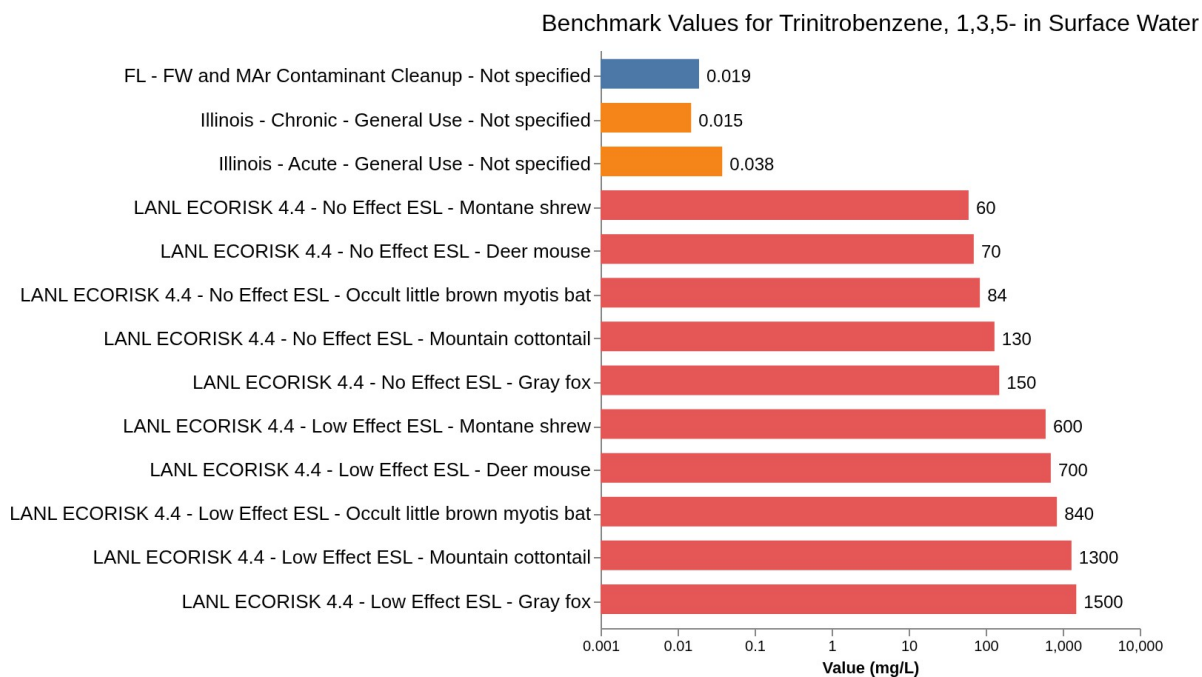


Table 541: Benchmark Values for Trinitrotoluene, 2,4,6- in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
118-96-7	Florida	Freshwater and Marine Water Contaminant Cleanup	Not specified	0.049
118-96-7	Illinois	Chronic – General Use	Not specified	0.075
118-96-7	Illinois	Acute – General Use	Not specified	0.930
118-96-7	LANL ECORISK	Surface Water No Effect ESL	Violet-green swallow	40.000
118-96-7	LANL ECORISK	Surface Water No Effect ESL	American robin	69.000
118-96-7	LANL ECORISK	Surface Water Low Effect ESL	Violet-green swallow	73.000
118-96-7	LANL ECORISK	Surface Water No Effect ESL	American kestrel	81.000
118-96-7	LANL ECORISK	Surface Water Low Effect ESL	American robin	120.000
118-96-7	LANL ECORISK	Surface Water Low Effect ESL	American kestrel	140.000
118-96-7	LANL ECORISK	Surface Water No Effect ESL	Montane shrew	150.000
118-96-7	LANL ECORISK	Surface Water No Effect ESL	Deer mouse	180.000
118-96-7	LANL ECORISK	Surface Water No Effect ESL	Occult little brown myotis bat	210.000
118-96-7	LANL ECORISK	Surface Water No Effect ESL	Mountain cottontail	350.000
118-96-7	LANL ECORISK	Surface Water No Effect ESL	Gray fox	400.000
118-96-7	LANL ECORISK	Surface Water Low Effect ESL	Montane shrew	710.000
118-96-7	LANL ECORISK	Surface Water Low Effect ESL	Deer mouse	840.000
118-96-7	LANL ECORISK	Surface Water Low Effect ESL	Occult little brown myotis bat	1000.000
118-96-7	LANL ECORISK	Surface Water Low Effect ESL	Mountain cottontail	1600.000
118-96-7	LANL ECORISK	Surface Water Low Effect ESL	Gray fox	1800.000

Benchmark Values for Trinitrotoluene, 2,4,6- in Surface Water

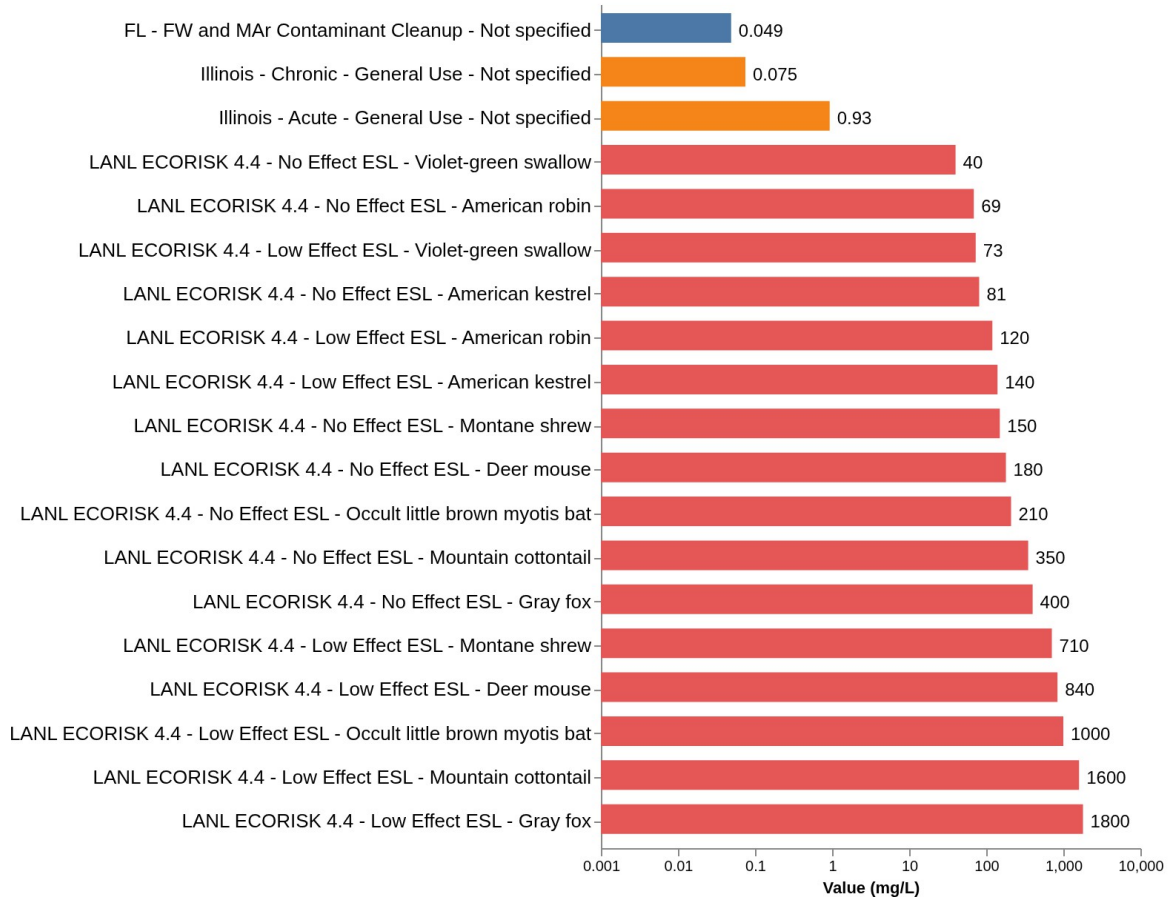


Table 542: Benchmark Values for Triphenylene in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
217-59-4	EPA ESBs	Final Chronic Value	Not specified	0.001875

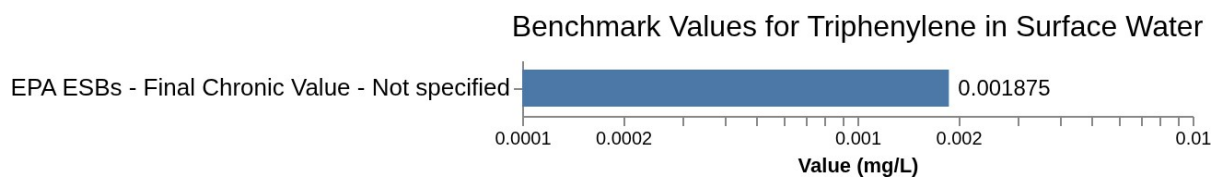


Table 543: Benchmark Values for Triphenyltin in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
668-34-8	Canada	Water Livestock	Not specified	0.82

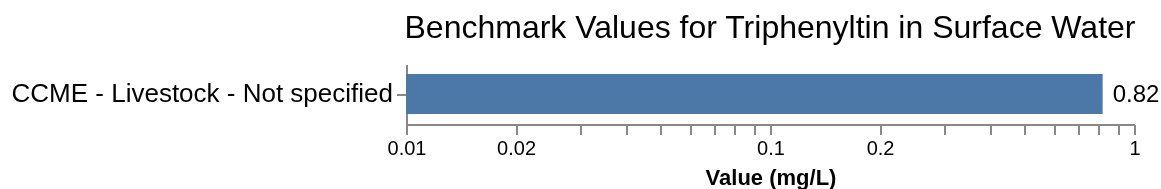


Table 544: Benchmark Values for Trithion in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
786-19-6	Florida	Freshwater and Marine Water Contaminant Cleanup	Not specified	0.0001

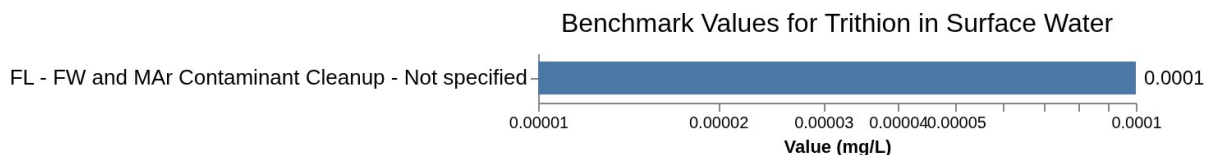


Table 545: Benchmark Values for Uranine in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
518-47-8	Illinois	Chronic – General Use	Not specified	23	195
518-47-8	Illinois	Acute – General Use	Not specified	230	195

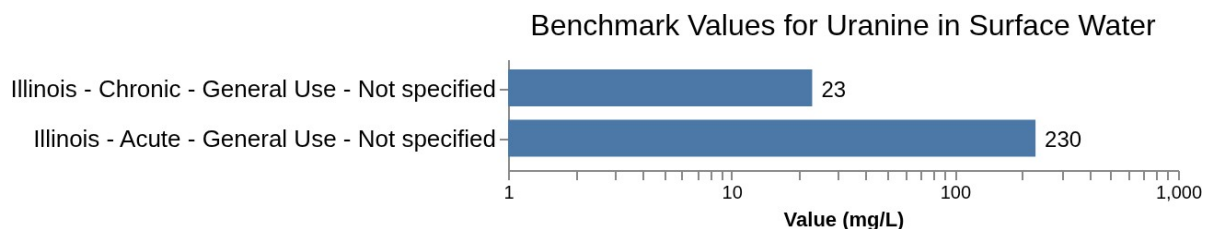


Table 546: Benchmark Values for Uranium (Soluble Salts) in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
7440-61-1	Canada	Water Irrigation	Not specified	0.0100	
7440-61-1	Canada	Water Livestock	Not specified	0.2000	
7440-61-1	LANL ECORISK	Surface Water No Effect ESL	Aquatic community organisms	0.0050	
7440-61-1	LANL ECORISK	Surface Water Low Effect ESL	Aquatic community organisms	0.0500	
7440-61-1	LANL ECORISK	Surface Water No Effect ESL	Montane shrew	27.0000	
7440-61-1	LANL ECORISK	Surface Water No Effect ESL	Deer mouse	32.0000	
7440-61-1	LANL ECORISK	Surface Water No Effect ESL	Occult little brown myotis bat	38.0000	
7440-61-1	LANL ECORISK	Surface Water No Effect ESL	Mountain cottontail	62.0000	
7440-61-1	LANL ECORISK	Surface Water Low Effect ESL	Montane shrew	67.0000	
7440-61-1	LANL ECORISK	Surface Water No Effect ESL	Gray fox	70.0000	
7440-61-1	LANL ECORISK	Surface Water Low Effect ESL	Deer mouse	78.0000	
7440-61-1	LANL ECORISK	Surface Water Low Effect ESL	Occult little brown myotis bat	94.0000	
7440-61-1	LANL ECORISK	Surface Water Low Effect ESL	Mountain cottontail	150.0000	
7440-61-1	LANL ECORISK	Surface Water Low Effect ESL	Gray fox	170.0000	
7440-61-1	LANL ECORISK	Surface Water No Effect ESL	Violet-green swallow	320.0000	
7440-61-1	LANL ECORISK	Surface Water No Effect ESL	American robin	550.0000	
7440-61-1	LANL ECORISK	Surface Water No Effect ESL	American kestrel	650.0000	
7440-61-1	LANL ECORISK	Surface Water Low Effect ESL	Violet-green swallow	3200.0000	
7440-61-1	LANL ECORISK	Surface Water Low Effect ESL	American robin	5500.0000	
7440-61-1	LANL ECORISK	Surface Water Low Effect ESL	American kestrel	6500.0000	
7440-61-1	ORNL	Tier II Secondary Chronic Value	Not specified	0.0026	
7440-61-1	ORNL	EC25 Bass Population	Not specified	0.0270	
7440-61-1	ORNL	Tier II Secondary Acute Value	Not specified	0.0460	
7440-61-1	ORNL	SW Lowest Chronic Value – Fish	Not specified	0.1420	24
7440-61-1	ORNL	SW Lowest Chronic Value – All Organisms	Not specified	0.1420	24
7440-61-1	ORNL	EC20 Fish	Not specified	0.4550	29

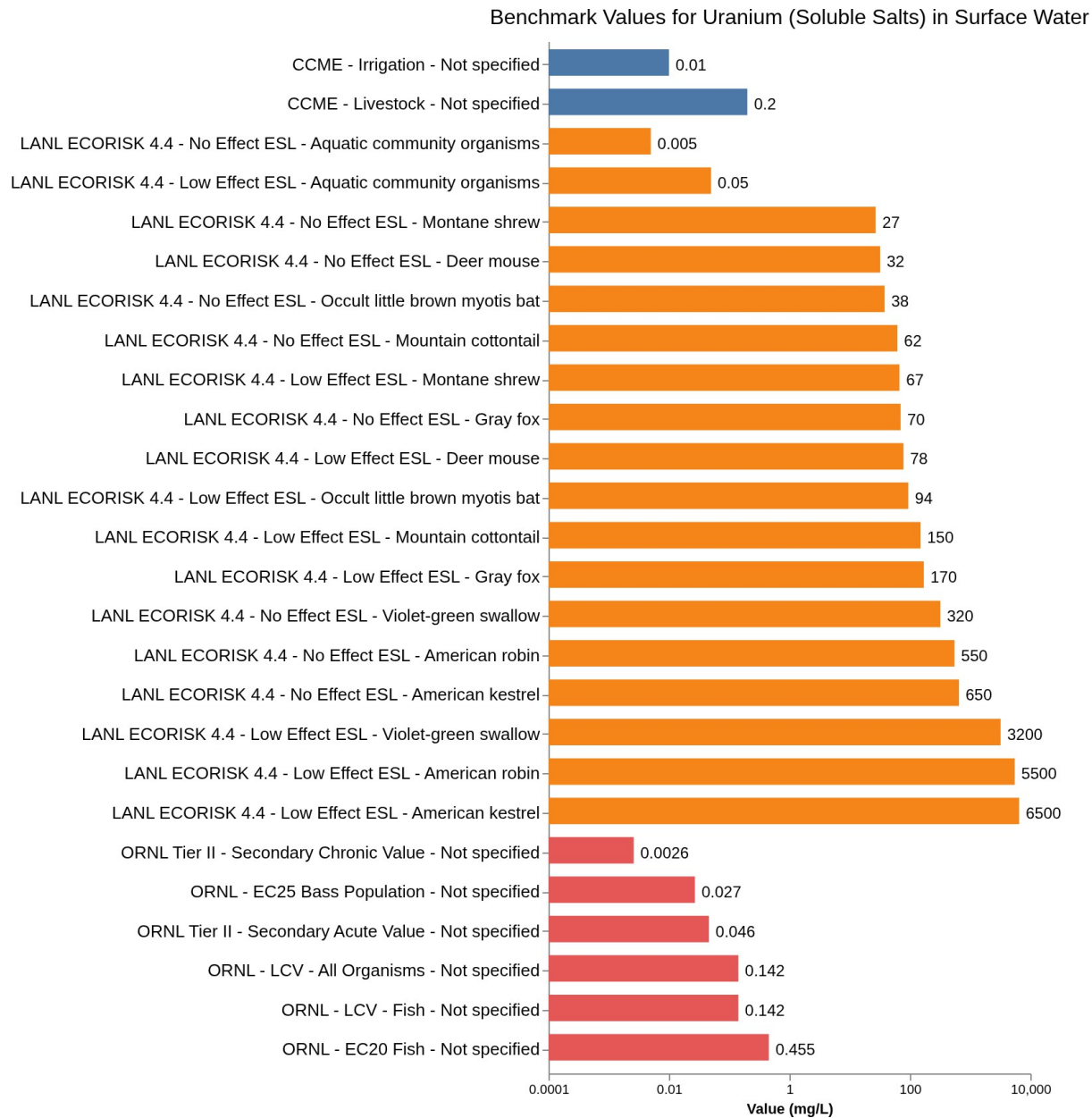


Table 547: Benchmark Values for Vanadium and Compounds in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
7440-62-2	Canada	Water Livestock	Not specified	0.100
7440-62-2	Canada	Water Irrigation	Not specified	0.100
7440-62-2	EPA Region 5	EPA RCRA Surface Water	Not specified	0.012
7440-62-2	LANL ECORISK	Surface Water No Effect ESL	Aquatic community organisms	0.019
7440-62-2	LANL ECORISK	Surface Water Low Effect ESL	Aquatic community organisms	0.190
7440-62-2	LANL ECORISK	Surface Water No Effect ESL	Violet-green swallow	4.500
7440-62-2	LANL ECORISK	Surface Water No Effect ESL	American robin	7.800
7440-62-2	LANL ECORISK	Surface Water No Effect ESL	American kestrel	9.100
7440-62-2	LANL ECORISK	Surface Water No Effect ESL	Montane shrew	9.400
7440-62-2	LANL ECORISK	Surface Water No Effect ESL	Deer mouse	11.000
7440-62-2	LANL ECORISK	Surface Water No Effect ESL	Occult little brown myotis bat	13.000
7440-62-2	LANL ECORISK	Surface Water Low Effect ESL	Montane shrew	18.000
7440-62-2	LANL ECORISK	Surface Water No Effect ESL	Mountain cottontail	21.000
7440-62-2	LANL ECORISK	Surface Water Low Effect ESL	Deer mouse	22.000
7440-62-2	LANL ECORISK	Surface Water No Effect ESL	Gray fox	24.000
7440-62-2	LANL ECORISK	Surface Water Low Effect ESL	Occult little brown myotis bat	26.000
7440-62-2	LANL ECORISK	Surface Water Low Effect ESL	Mountain cottontail	43.000
7440-62-2	LANL ECORISK	Surface Water Low Effect ESL	Violet-green swallow	45.000
7440-62-2	LANL ECORISK	Surface Water Low Effect ESL	Gray fox	48.000
7440-62-2	LANL ECORISK	Surface Water Low Effect ESL	American robin	78.000
7440-62-2	LANL ECORISK	Surface Water Low Effect ESL	American kestrel	91.000
7440-62-2	ORNL	Tier II Secondary Chronic Value	Not specified	0.020
7440-62-2	ORNL	EC25 Bass Population	Not specified	0.032
7440-62-2	ORNL	EC20 Fish	Not specified	0.041
7440-62-2	ORNL	SW Lowest Chronic Value – Fish	Not specified	0.080
7440-62-2	ORNL	SW Lowest Chronic Value – All Organisms	Not specified	0.080
7440-62-2	ORNL	Tier II Secondary Acute Value	Not specified	0.280
7440-62-2	ORNL	EC20 Daphnids	Not specified	0.430
7440-62-2	ORNL	SW Lowest Chronic Value – Daphnids	Not specified	1.900

Benchmark Values for Vanadium and Compounds in Surface Water

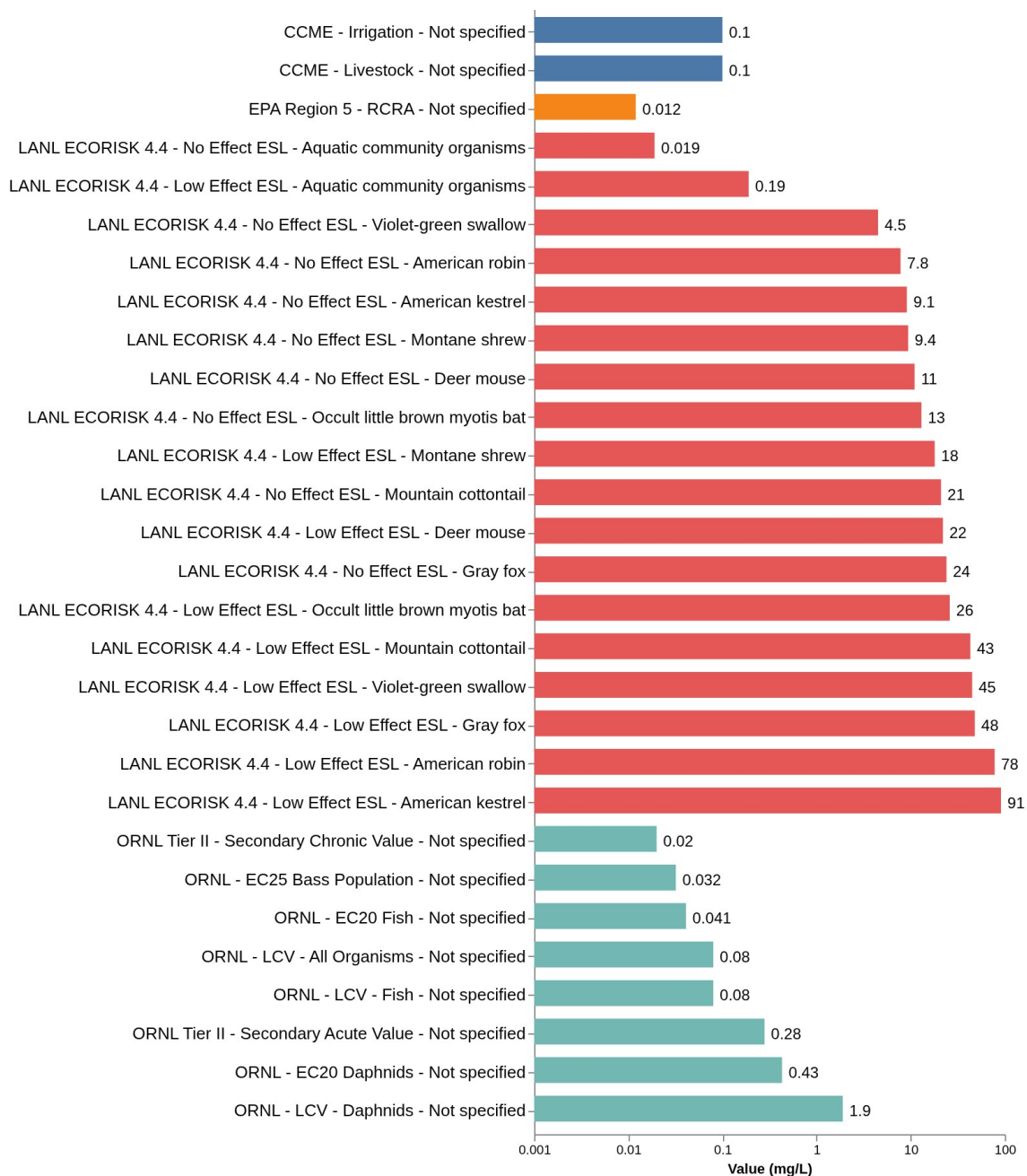


Table 548: Benchmark Values for Vanadium Pentoxide in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
1314-62-1	Florida	Freshwater and Marine Water Contaminant Cleanup	Not specified	0.013

Benchmark Values for Vanadium Pentoxide in Surface Water

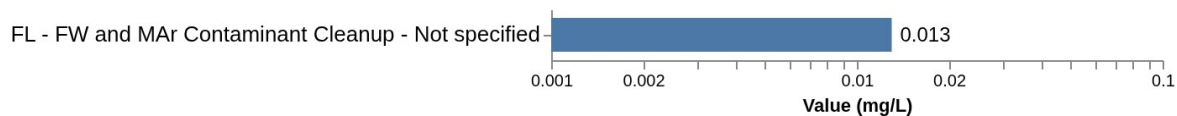


Table 549: Benchmark Values for Vernolate in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
1929-77-7	Florida	Freshwater and Marine Water Contaminant Cleanup	Not specified	0.012

Benchmark Values for Vernolate in Surface Water

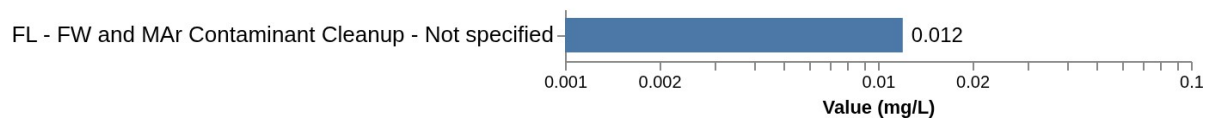


Table 550: Benchmark Values for Vinyl Acetate in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
108-05-4	EPA Region 5	EPA RCRA Surface Water	Not specified	0.248	
108-05-4	Florida	Freshwater and Marine Water Contaminant Cleanup	Not specified	0.700	
108-05-4	Illinois	Chronic – General Use	Not specified	0.140	
108-05-4	Illinois	Acute – General Use	Not specified	1.800	
108-05-4	ORNL	Tier II Secondary Chronic Value	Not specified	0.016	
108-05-4	ORNL	EC25 Bass Population	Not specified	0.108	
108-05-4	ORNL	Tier II Secondary Acute Value	Not specified	0.280	
108-05-4	ORNL	EC20 Fish	Not specified	0.718	29
108-05-4	ORNL	SW Lowest Chronic Value – All Organisms	Not specified	0.810	24
108-05-4	ORNL	SW Lowest Chronic Value – Fish	Not specified	0.810	24

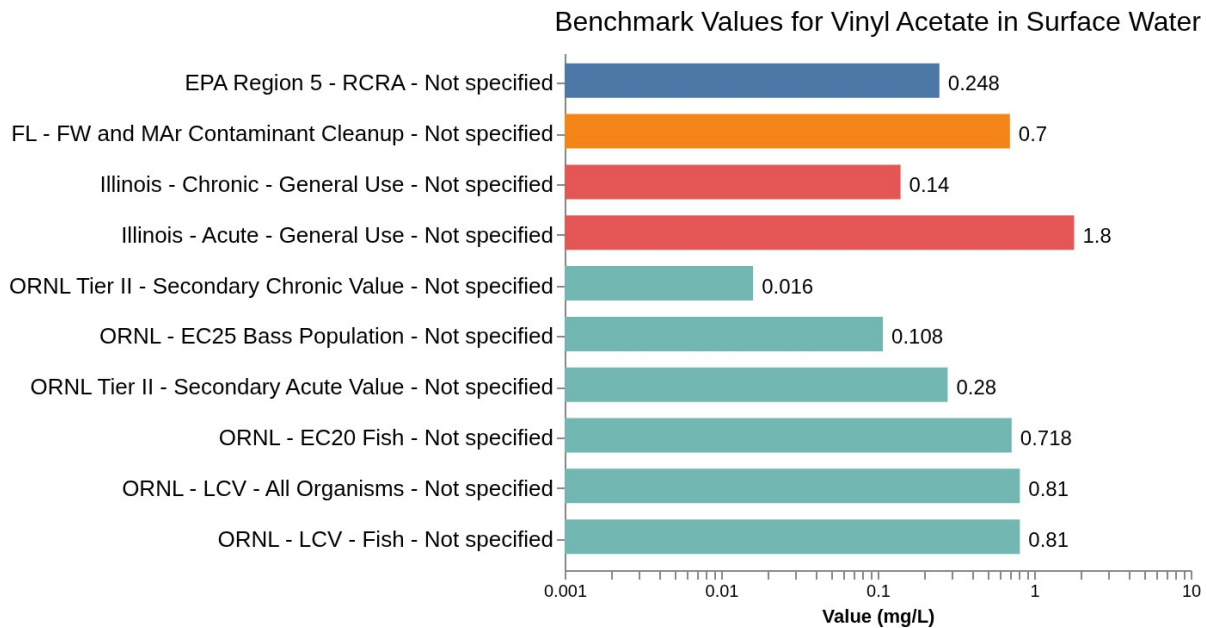


Table 551: Benchmark Values for Vinyl Chloride in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
75-01-4	EPA Region 4	Freshwater and Saltwater Chronic Narcotic MOA	Not specified	2.276	
75-01-4	EPA Region 4	Freshwater and Saltwater Acute, Narcotic MOA	Not specified	8.717	
75-01-4	EPA Region 5	EPA RCRA Surface Water	Not specified	0.930	
75-01-4	Illinois	Chronic – Lake Michigan	Not specified	0.930	
75-01-4	Illinois	Chronic – General Use	Not specified	1.700	
75-01-4	Illinois	Acute – General Use	Not specified	22.000	
75-01-4	Illinois	Acute – Lake Michigan	Not specified	22.000	
75-01-4	ORNL	EC20 Fish	Not specified	14.520	29

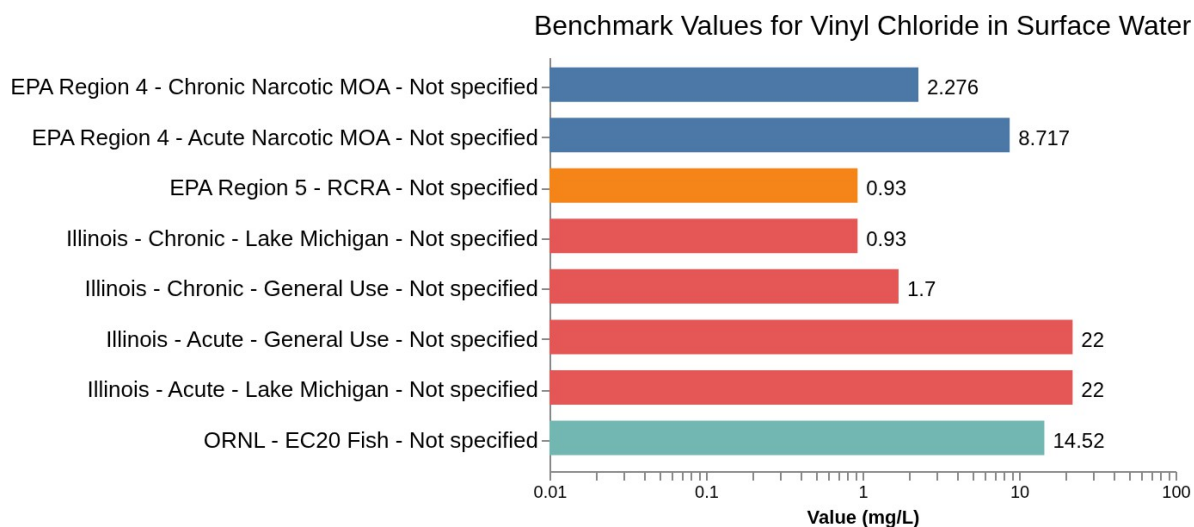


Table 552: Benchmark Values for Xylene, m- in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
108-38-3	ORNL	Tier II Secondary Chronic Value	Not specified	0.0018
108-38-3	ORNL	Tier II Secondary Acute Value	Not specified	0.0320

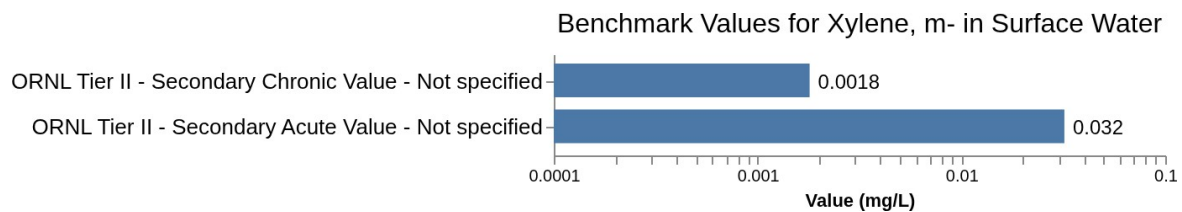


Table 553: Benchmark Values for Xylenes in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
1330-20-7	EPA Region 4	Freshwater and Saltwater Chronic Narcotic MOA	Not specified	0.260	
1330-20-7	EPA Region 4	Freshwater and Saltwater Acute, Narcotic MOA	Not specified	1.057	
1330-20-7	EPA Region 5	EPA RCRA Surface Water	Not specified	0.027	
1330-20-7	Florida	Freshwater and Marine Water Contaminant Cleanup	Not specified	0.370	
1330-20-7	LANL ECORISK	Surface Water No Effect ESL	Aquatic community organisms	0.013	
1330-20-7	LANL ECORISK	Surface Water Low Effect ESL	Aquatic community organisms	0.130	
1330-20-7	LANL ECORISK	Surface Water No Effect ESL	Montane shrew	9.400	
1330-20-7	LANL ECORISK	Surface Water No Effect ESL	Deer mouse	11.000	
1330-20-7	LANL ECORISK	Surface Water No Effect ESL	Occult little brown myotis bat	13.000	
1330-20-7	LANL ECORISK	Surface Water No Effect ESL	Mountain cottontail	21.000	
1330-20-7	LANL ECORISK	Surface Water No Effect ESL	Gray fox	24.000	
1330-20-7	LANL ECORISK	Surface Water No Effect ESL	Violet-green swallow	440.000	
1330-20-7	LANL ECORISK	Surface Water No Effect ESL	American robin	760.000	
1330-20-7	LANL ECORISK	Surface Water No Effect ESL	American kestrel	880.000	
1330-20-7	LANL ECORISK	Surface Water Low Effect ESL	Montane shrew	1100.000	
1330-20-7	LANL ECORISK	Surface Water Low Effect ESL	Deer mouse	1300.000	
1330-20-7	LANL ECORISK	Surface Water Low Effect ESL	Occult little brown myotis bat	1600.000	
1330-20-7	LANL ECORISK	Surface Water Low Effect ESL	Mountain cottontail	2600.000	
1330-20-7	LANL ECORISK	Surface Water Low Effect ESL	Gray fox	3000.000	
1330-20-7	LANL ECORISK	Surface Water Low Effect ESL	Violet-green swallow	4400.000	
1330-20-7	LANL ECORISK	Surface Water Low Effect ESL	American robin	7600.000	
1330-20-7	LANL ECORISK	Surface Water Low Effect ESL	American kestrel	8900.000	
1330-20-7	ORNL	Tier II Secondary Chronic Value	Not specified	0.013	
1330-20-7	ORNL	Tier II Secondary Acute Value	Not specified	0.230	
1330-20-7	ORNL	EC20 Fish	Not specified	2.680	31
1330-20-7	ORNL	SW Lowest Chronic Value – Fish	Not specified	62.300	24
1330-20-7	ORNL	SW Lowest Chronic Value – All Organisms	Not specified	62.308	24

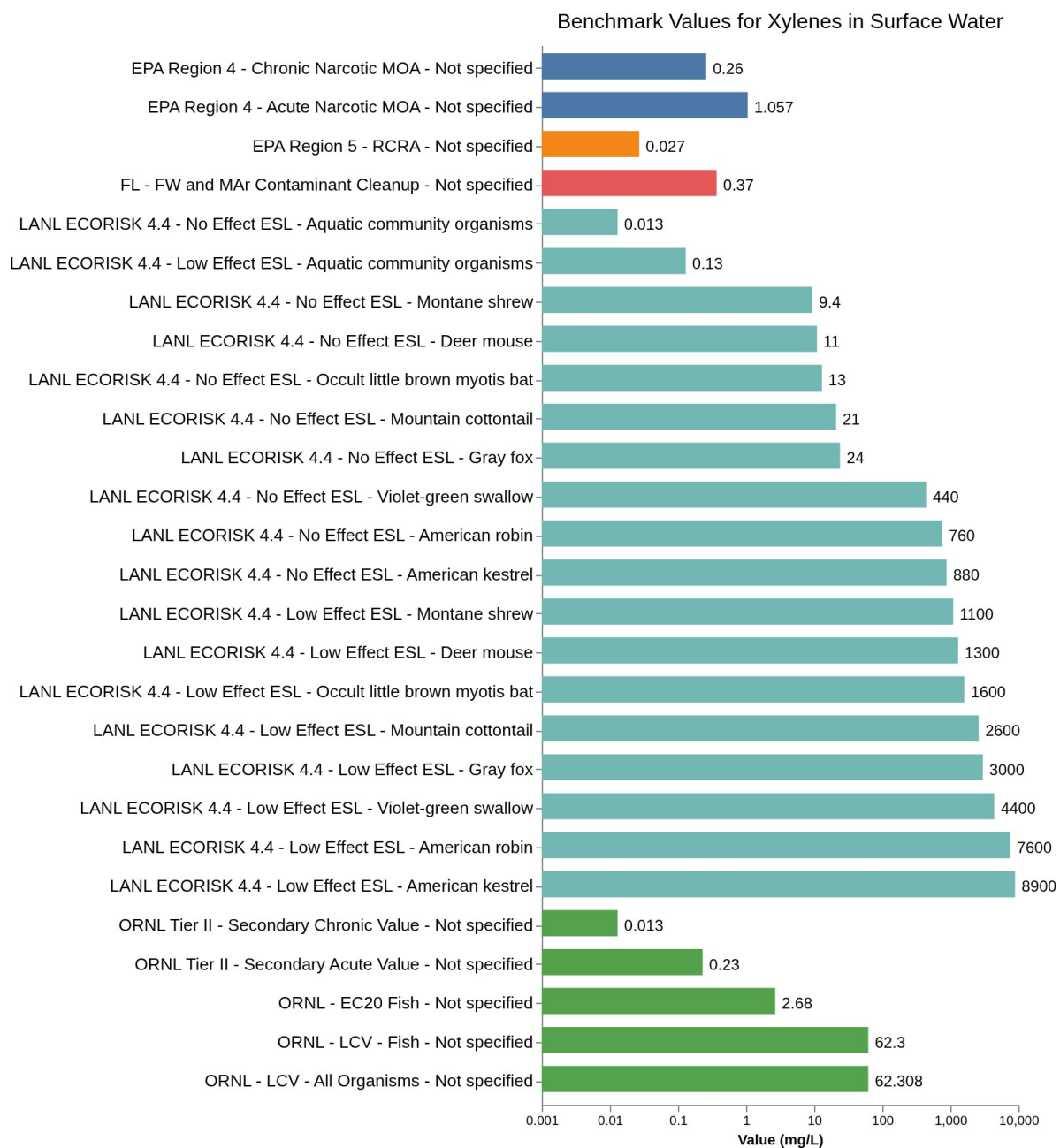


Table 554: Benchmark Values for Zinc and Compounds in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
7440-66-6	British Columbia	Irrigation LTC	Not specified	1	143
7440-66-6	British Columbia	Livestock LTC	Not specified	2	
7440-66-6	Canada	Water Livestock	Not specified	50	
7440-66-6	Canada	Water Irrigation	Not specified		52
7440-66-6	EPA Region 5	EPA RCRA Surface Water	Not specified	0.0657	12
7440-66-6	Florida	SWQS for Shellfish Propagation or Harvesting	Not specified	0.086	
7440-66-6	LANL ECORISK	Surface Water No Effect ESL	Aquatic community organisms	0.065	
7440-66-6	LANL ECORISK	Surface Water Low Effect ESL	Aquatic community organisms	0.085	
7440-66-6	LANL ECORISK	Surface Water No Effect ESL	Violet-green swallow	490	
7440-66-6	LANL ECORISK	Surface Water No Effect ESL	Montane shrew	560	
7440-66-6	LANL ECORISK	Surface Water No Effect ESL	Deer mouse	660	
7440-66-6	LANL ECORISK	Surface Water No Effect ESL	Occult little brown myotis bat	790	
7440-66-6	LANL ECORISK	Surface Water No Effect ESL	American robin	850	
7440-66-6	LANL ECORISK	Surface Water No Effect ESL	American kestrel	1000	
7440-66-6	LANL ECORISK	Surface Water No Effect ESL	Mountain cottontail	1200	
7440-66-6	LANL ECORISK	Surface Water No Effect ESL	Gray fox	1400	
7440-66-6	LANL ECORISK	Surface Water Low Effect ESL	Violet-green swallow	4900	
7440-66-6	LANL ECORISK	Surface Water Low Effect ESL	Montane shrew	5600	
7440-66-6	LANL ECORISK	Surface Water Low Effect ESL	Deer mouse	6600	
7440-66-6	LANL ECORISK	Surface Water Low Effect ESL	Occult little brown myotis bat	7900	
7440-66-6	LANL ECORISK	Surface Water Low Effect ESL	American robin	8500	
7440-66-6	LANL ECORISK	Surface Water Low Effect ESL	American kestrel	10000	
7440-66-6	LANL ECORISK	Surface Water Low Effect ESL	Mountain cottontail	12000	
7440-66-6	LANL ECORISK	Surface Water Low Effect ESL	Gray fox	14000	
7440-66-6	ORNL	EC20 Sensitive Species	Not specified	0.021	
7440-66-6	ORNL	SW Lowest Chronic Value – All Organisms	Not specified	0.03	
7440-66-6	ORNL	SW Lowest Chronic Value – Aquatic Plants	Not specified	0.03	
7440-66-6	ORNL	SW Lowest Chronic Value – Fish	Not specified	0.0364	
7440-66-6	ORNL	SW Lowest Chronic Value – Daphnids	Not specified	0.0467	
7440-66-6	ORNL	EC20 Fish	Not specified	0.047	
7440-66-6	ORNL	EC25 Bass Population	Not specified	0.08	
7440-66-6	ORNL	SW Lowest Chronic Value – Non-Daphnid Inverts	Not specified	5.24	22
7440-66-6	Ohio	OMZA	Not specified	0.12	188, 190
7440-66-6	Ohio	OMZM	Not specified	0.12	188, 190
7440-66-6	Ohio	IMZM	Not specified	0.23	188, 190

Benchmark Values for Zinc and Compounds in Surface Water

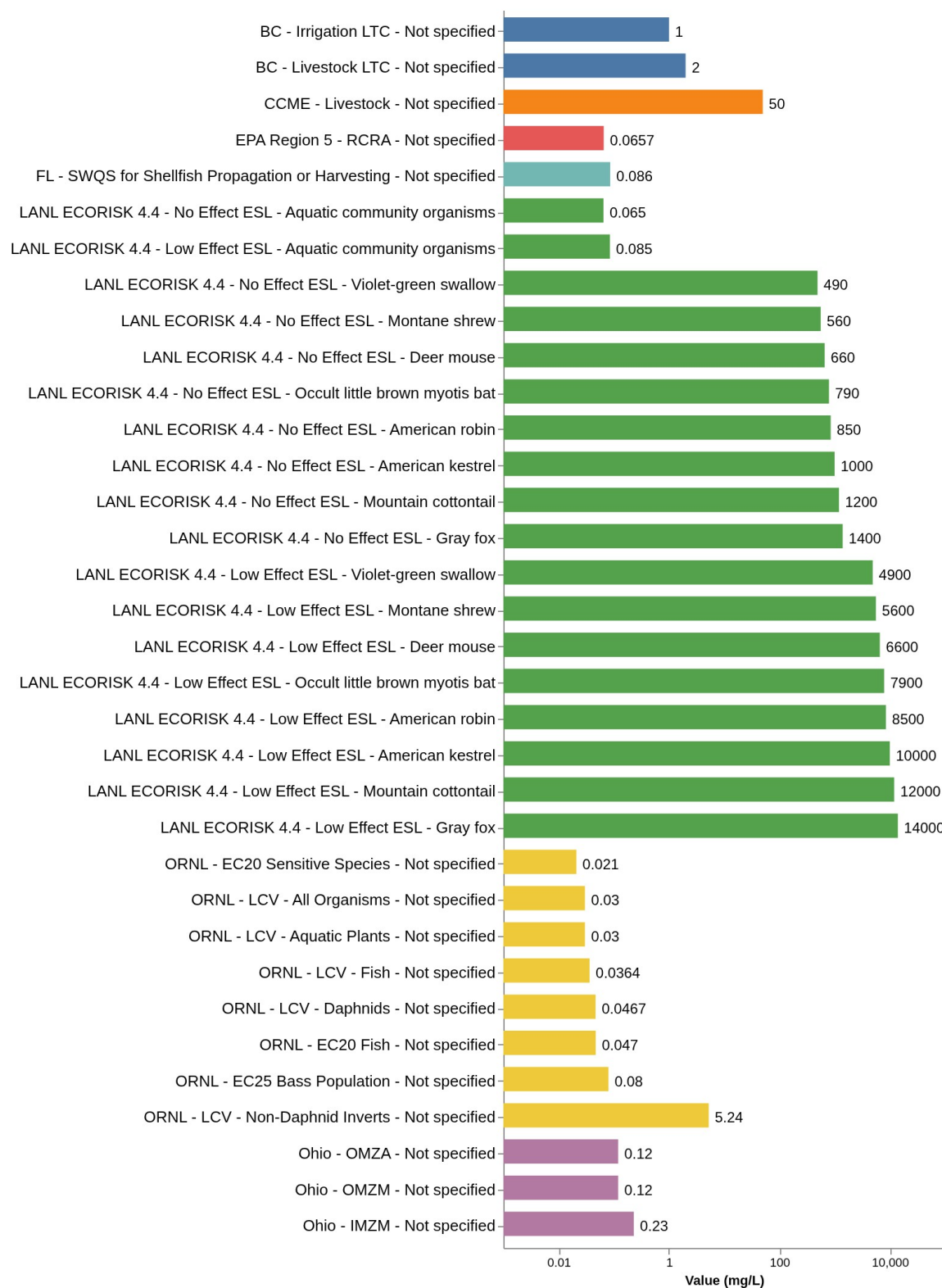


Table 555: Benchmark Values for Zinc Chloride in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
7646-85-7	Florida	Freshwater and Marine Water Contaminant Cleanup	Not specified	0.0015

Benchmark Values for Zinc Chloride in Surface Water

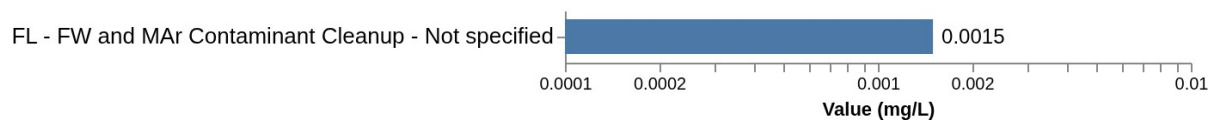


Table 556: Benchmark Values for Zineb in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)
12122-67-7	Florida	Freshwater and Marine Water Contaminant Cleanup	Not specified	0.014

Benchmark Values for Zineb in Surface Water

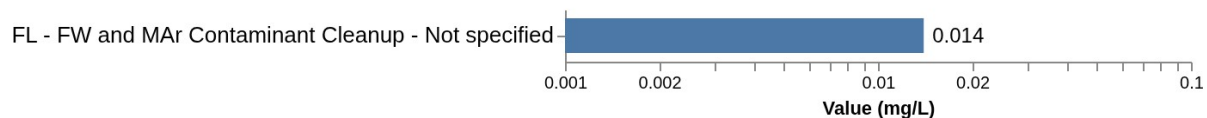
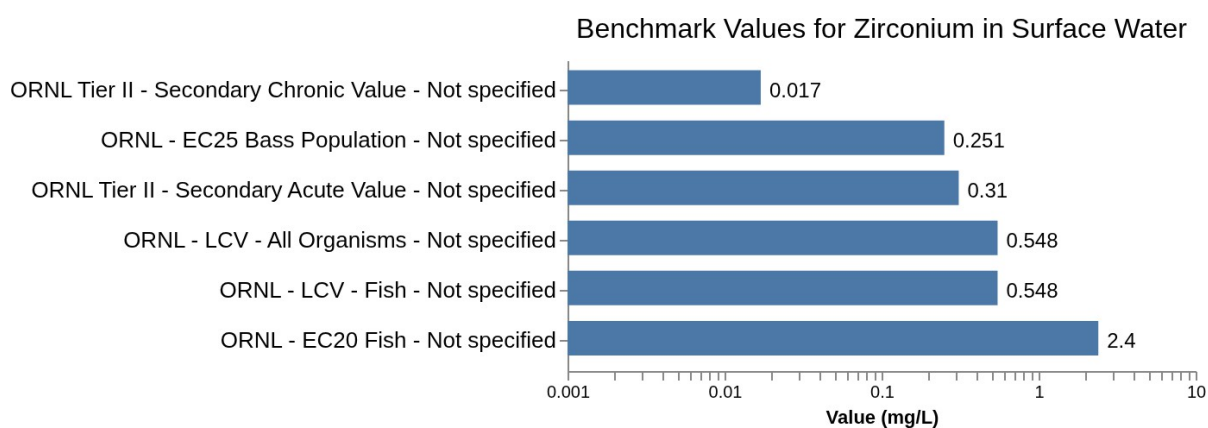


Table 557: Benchmark Values for Zirconium in Surface Water

CAS	Source	Benchmark	Organism	Value (mg/L)	Footnotes
7440-67-7	ORNL	Tier II Secondary Chronic Value	Not specified	0.017	
7440-67-7	ORNL	EC25 Bass Population	Not specified	0.251	
7440-67-7	ORNL	Tier II Secondary Acute Value	Not specified	0.310	
7440-67-7	ORNL	SW Lowest Chronic Value – Fish	Not specified	0.548	24
7440-67-7	ORNL	SW Lowest Chronic Value – All Organisms	Not specified	0.548	24
7440-67-7	ORNL	EC20 Fish	Not specified	2.400	29



3. CHEMICAL FOOTNOTES

1. Screening value is for filtered (dissolved) metals. A conversion factor (CF) was used to convert the screening value for total metals in surface water to a screening value for dissolved metals in surface water. $CMC (dissolved) = CMC (total) \times CF$.
2. The freshwater screening value is hardness dependent. The screening value shown is for dissolved metals assuming a hardness of 50 mg/L as CaCO₃. See [Table 1C for screening values for varying degrees of water hardness](#).
3. Freshwater criteria for pentachlorophenol are pH Dependent. Values displayed are for a pH of 7.8.
4. Criteria for ammonia are pH, temperature, and lifestage dependent.
5. Selenium concentrations in water do not reflect dietary sources to aquatic life and screening against these numbers may not be adequately protective.
6. pH of 6.5–9.0
7. Bioaccumulative chemical
8. Sum for the Toxic Unit Approach. (See Table 2c at [Region 4 Ecological Risk Assessment Supplemental Guidance](#))
9. Total value for Low Molecular Weight PAHs.
10. Total value for High Molecular Weight PAHs.
11. Subject to a narrative assessment. See [Region 4 Ecological Risk Assessment Supplemental Guidance](#).
12. For hardness—dependent metals, freshwater chronic criteria are based on soft water with a total hardness of 50 mg/L as CaCO₃. Soft water is common within Region 5; this water ESL may be recalculated when site specific water hardness is less than 50 mg/L.
13. Freshwater criteria for pentachlorophenol are pH Dependent. Values displayed are for a pH of 6.5.
14. The freshwater BTAG for Hydrazine depends on the hardness level. For hardness < 50, the BTAG is 5 ug/L. For hardness => 50, the BTAG is 10 ug/L.
15. Potential ecological risks associated with aluminum in soils are based on the measured soil pH. Where aluminum is a COC, it should only be retained for those soils with a pH less than 5.5. U.S. EPA. 2003. Ecological soil screening level for aluminum. Interim final. OSWER directive 9285.7–60. Washington.
16. Iron is not expected to be toxic to plants in well—aerated soils between pH 5 and 8. Importance is based less on its direct chemical toxicity than on its effect as a mediator in the geochemistry of other toxic metals and the physical hazard of depositing flocculent. EPA. 2003. Ecological soil screening levels for iron. Interim final. OSWER directive 9285.7–69. Washington.
17. When benchmarks represent the sum of individual compounds, isomers, or groups of congeners, and the chemical analysis indicates an undetected value, the proxy value specified at 30 TAC 350.51(n) shall be used for calculating the sum of the respective compounds, isomers, or congeners. This assumes that the particular COC has not been eliminated in accordance with the criteria at 350.71(k).
18. The low molecular weight PAH benchmark is to be compared to the sum of the concentrations of the following compounds: naphthalene, acenaphthylene, acenaphthene, fluorene, phenanthrene, anthracene, and 2—methyl naphthalene. The PAH benchmark is not the sum of the corresponding benchmarks listed for the individual compounds.
19. The high molecular weight PAH benchmark is to be compared to the sum of the concentrations of the following compounds: fluoranthene, pyrene, benz(a)anthracene, chrysene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, indeno(1,2,3—cd)pyrene, benzo(g,h,i)perylene, and dibenzo(a,h)anthracene. The PAH benchmark is not the sum of the corresponding benchmarks listed for the individual compounds.
20. Total PAH refers to the sum of the concentrations of each of low and high molecular weight PAHs listed above and any other PAH compounds that are not eliminated in accordance with 30 TAC 350.71(k). The benchmarks for total PAHs are the most relevant in evaluating risk in an ERA, as PAHs almost always occur as mixtures. Values for individual, low molecular weight, and high molecular weight PAHs are included as guidelines to aid in the determination of disproportionate concentrations within the mixture that may be masked by the total.
21. Indicates that the benchmarks are for the dissolved portion in water.
22. Value was reported as greater than the listed number.
23. Value was reported as less than the listed number.
24. These values are estimates. Methods of estimation are described in [Toxicological Benchmarks for Screening Potential Contaminants of Concern for Effects on Aquatic Biota: 1996 Revision](#).

25. A range of 0.8 to 4.0 ug/L was reported.
26. The chronic NAWQC for mercury (0.012 $\mu\text{g/L}$) is based on the final residue value. FCVs are used as benchmarks to protect aquatic life.
27. The chronic NAWQC for DDT (0.001 $\mu\text{g/L}$), total PCBs (0.014 $\mu\text{g/L}$), and heptachlor (0.0038 $\mu\text{g/l}$) are based on the final residue values; for benchmarks to protect aquatic life, we use SCVs.
28. Units are in mg/Kg dry weight.
29. These values are estimates. Methods of estimation are described in the [reference](#).
30. Study LC50s were used rather than species mean LC50s, so water hardness would correspond to EC20 values.
31. Benchmarks are based on tests that are not standard but are judged to be of high quality.
32. The value's sediment quality assessment guidelines (SQAGs) are within a factor of three of the probable effects level (PEL).
33. These values have a presumed maximum TOC of 10% (0.1) applied to the values from the source for use in comparing to bulk sediment data. If the TOC in measured data is less than 10%, adjust values accordingly.
34. These values have a presumed TOC of 1% (0.01) applied to the values from the source for use in comparing to bulk sediment data.
35. See Methylmercury.
36. Consult the 2010 Polycyclic Aromatic Hydrocarbons factsheet or the 2010 PAH Scientific Supporting Document for guidance.
37. Surface Coarse 0.082 mg/kg. Surface Fine 0.018 mg/kg. Subsoil Coarse 0.082 mg/kg. Subsoil Fine 0.018 mg/kg.
38. Coarse Soil Guideline 4.6 mg/kg. Fine Soil Guideline 5.6 mg/kg. Coarse Soil Human health soil quality guideline 4.6 mg/kg. Fine Soil Human health soil quality guideline 4.6 mg/kg, Coarse Soil Environmental soil quality guideline 7.7 mg/kg. Fine Soil Environmental soil quality guideline 190 mg/kg.
39. SQGF Coarse 0.49 mg/kg. SQGF Fine 6.5 mg/kg.
40. Surface Coarse 0.37 mg/kg. Surface Fine 0.08 mg/kg. Subsoil Coarse 0.37 mg/kg. Subsoil Fine 0.08 mg/kg.
41. Surface Coarse 11 mg/kg. Surface Fine 2.4 mg/kg. Subsoil Coarse 11 mg/kg. Subsoil Fine 2.4 mg/kg.
42. 10–5 Incremental Risk – Surface Coarse 0.030 mg/kg. 10–5 Incremental Risk – Surface Fine 0.0068 mg/kg. 10–5 Incremental Risk – Subsoil Coarse 0.030 mg/kg. 10–5 Incremental Risk – Subsoil Fine 0.0068 mg/kg. 10–6 Incremental Risk – Surface Coarse 0.030 mg/kg. 10–6 Incremental Risk – Surface Fine 0.0068 mg/kg. 10–6 Incremental Risk – Subsoil Coarse 0.030 mg/kg. 10–6 Incremental Risk – Subsoil Fine 0.0068 mg/kg.
43. SQGF Coarse 6.5 mg/kg. SQGF Fine 21 mg/kg.
44. 10–5 Incremental Risk – Surface Coarse 0.030 mg/kg. 10–5 Incremental Risk – Surface Fine 0.0068 mg/kg. 10–5 Incremental Risk – Subsoil Coarse 0.030 mg/kg. 10–5 Incremental Risk – Subsoil Fine 0.0068 mg/kg. 10–6 Incremental Risk – Surface Coarse 0.0095 mg/kg. 10–6 Incremental Risk – Surface Fine 0.0068 mg/kg. 10–6 Incremental Risk – Subsoil Coarse 0.011 mg/kg. 10–6 Incremental Risk – Subsoil Fine 0.0068 mg/kg.
45. This value was derived using TEFs. See the fact sheet for supporting documentation.
46. 500 $\mu\text{g/L}$ for blackberries; 500–1000 $\mu\text{g/L}$ for peaches, cherries, plums, grapes, cowpeas, onions, garlic, sweet potatoes, wheat barley, sunflowers, mung beans, sesame, lupins, strawberries, Jerusalem arti- chokes, kidney beans, and lima beans; 1000–2000 $\mu\text{g/L}$ for red peppers, peas, carrots, radishes, potatoes, and cucumbers; 2000–4000 $\mu\text{g/L}$ for lettuce, cabbage, celery, turnips, Kentucky bluegrass, oats, corn, artichokes, tobacco, mustard, clover, squash, and muskmelons; 4000–6000 $\mu\text{g/L}$ for sorghum, tomatoes, alfalfa, purple vetch, parsley, red beets, and sugar beets; 6000 $\mu\text{g/L}$ for asparagus.
47. Foliar: 100–178 mg/L for almond apricots and plums; 178–355 mg/L for grapes, peppers, potatoes and tomatoes; 355–710 mg/L for alfalfa, barley, corn, and cucumbers; >710 mg/L for cauliflower, cotton, safflower, sesame, sorghum, sugar beets, and sunflowers. Rootstocks: 180–600 mg/L for stone fruit (peaches, plums, etc.); 710–900 mg/L for grapes. Cultivars: 110–180 mg/L for strawberries, 230–460 mg/L for grapes, 250 mg/L for boysenberries, blackberries, and raspberries.
48. 200 $\mu\text{g/L}$ for cereals, 1000 $\mu\text{g/L}$ for tolerant crops.
49. The concentration should not exceed 10 $\mu\text{g/L}$ for continuous use on all soils or 50 $\mu\text{g/L}$ for short-term use on acidic soils.
50. 20 $\mu\text{g/L}$ for continuous use on all soils, 50 $\mu\text{g/L}$ for intermittent use on all soils.
51. 500 mg/L for strawberries, raspberries, beans, and carrots. 500–800 mg/L for boysenberries, currants, blackberries, gooseberries, plums, grapes, apricots, peaches, pears, cherries, apples, onions, parsnips, radishes,

- peas, pumpkins, lettuce, peppers, muskmelons, sweet potatoes, sweet corn, potatoes, celery, cabbage, kohlrabi, cauliflower, cowpeas, broad beans, flax, sunflowers, and corn. 800–1500 mg/L for spinach, cantaloupe, cucumbers, tomatoes, squash, brussels, sprouts, broccoli, turnips, smooth brome, alfalfa, big trefoil, beardless wildrye, vetch, timothy, and crested wheat grass. 1500–2500 mg/L for beets, zucchini, rape, sorghum, oat hay, wheat hay, mountain brome, tall fescue, sweet clover, reed canary grass, birdsfoot trefoil, perennial ryegrass. 3500 mg/L for asparagus, soybeans, safflower, oats, rye, wheat, sugar beets, barley, barley hay, and tall wheat grass.
52. 1000 µg/L when soil pH < 6.5. 5000 µg/L when soil pH > 6.5.
 53. 500 µg/L for sheep, 1000 µg/L for cattle, 5000 µg/L for swine and poultry.
 54. The maximum concentration in livestock drinking water should not exceed 2000 µg/L, or 1000 µg/L in cases where the feed of animals contains fluoride.
 55. The short-term benchmark concentration of 1.0 µg·L⁻¹ is for waters of 50 mg CaCO₃·L⁻¹ hardness. The short-term benchmark for cadmium is related to water hardness (as CaCO₃): When the water hardness is 0 to < 5.3 mg/L, the short-term benchmark is 0.11 µg/L. At hardness ≥ 5.3 to ≤ 360 mg/L, the short-term benchmark is calculated using this equation: Short-term benchmark (µg/L) = 10{1.016(log[hardness]) - 1.71}. At hardness > 360 mg/L, the short-term benchmark is 7.7 µg/L.
 56. Benchmark = exp(0.878[ln(hardness)] + 4.76), where the benchmark is expressed in dissolved manganese concentration (µg/L), and hardness is measured as CaCO₃ equivalents in mg/L.
 57. 5 µg/L if pH < 6.5. 100 µg/L if pH ≥ 6.5.
 58. The CWQG for cadmium (i.e., long-term guideline) of 0.09 µg·L⁻¹ is for waters of 50 mg CaCO₃·L⁻¹ hardness. The CWQG for cadmium is related to water hardness (as CaCO₃): When the water hardness is > 0 to < 17 mg/L, the CWQG is 0.04 µg/L. At hardness ≥ 17 to ≤ 280 mg/L, the CWQG is calculated using this equation: CWQG (µg/L) = 10{0.83(log[hardness]) - 2.46}. At hardness > 280 mg/L, the CWQG is 0.37 µg/L.
 59. The CWQG for copper is related to water hardness (as CaCO₃): When the water hardness is 0 to < 82 mg/L, the CWQG is 2 µg/L. At hardness ≥ 82 to ≤ 180 mg/L the CWQG is calculated using this equation: CWQG (µg/L) = 0.2 * e{0.8545[ln(hardness)] - 1.465}. At hardness > 180 mg/L, the CWQG is 4 µg/L. If the hardness is unknown, the CWQG is 2 µg/L.
 60. The CWQG for lead is related to water hardness (as CaCO₃): When the hardness is 0 to ≤ 60 mg/L, the CWQG is 1 µg/L. At hardness > 60 to ≤ 180 mg/L the CWQG is calculated using this equation: CWQG (µg/L) = e{1.273[ln(hardness)] - 4.705}. At hardness > 180 mg/L, the CWQG is 7 µg/L. If the hardness is unknown, the CWQG is 1 µg/L.
 61. The CWQG for manganese (i.e., long-term guideline) is found using the CWQG calculator in Appendix B of the Scientific Criteria Document for the Development of the Canadian Water Quality Guidelines for the Protection of Aquatic Life: Manganese.
 62. The CWQG for nickel is related to water hardness (as CaCO₃): When the water hardness is 0 to ≤ 60 mg/L, the CWQG is 25 µg/L. At hardness > 60 to ≤ 180 mg/L the CWQG is calculated using this equation: CWQG (µg/L) = e{0.76[ln(hardness)] + 1.06}. At hardness > 180 mg/L, the CWQG is 150 µg/L. If the hardness is unknown, the CWQG is 25 µg/L.
 63. Canadian Guidance Framework for Phosphorus is for developing phosphorus guidelines (does not provide guidance on other freshwater nutrients). It provides Trigger Ranges for Total Phosphorus (µg/L) (see Guidance Framework for Phosphorus factsheet): ultra-oligotrophic <4, oligotrophic 4–10, mesotrophic 10–20, meso-eutrophic 20–35, eutrophic 35–100, hyper-eutrophic >100.
 64. The long-term CWQG is for dissolved zinc and is calculated using the following equation: CWQG = exp(0.947[ln(hardness mg·L⁻¹)] - 0.815[pH] + 0.398[ln(DOC mg·L⁻¹)] + 4.625). The short-term benchmark is for dissolved zinc and is calculated using the following equation: Benchmark = exp(0.833[ln(hardness mg·L⁻¹)] + 0.240[ln(DOC mg·L⁻¹)] + 0.526).
 65. Supporting documents are available from the [Canadian Council of Ministers of the Environment](#).
 66. The listed values are dry weight.
 67. This is a reactive species.

68. Guideline is crop—specific: Cereals and hay value is 46 ug/L and Legumes value is 93 ug/L, per the British Columbia data catalog.
69. Active ingredient WQG is 490 ug/L per the British Columbia data catalog.
70. Guideline is crop—specific. The value listed of 0.071 ug/L applies to crops other than cereals, hay, and pastures (e.g., tomato). The value of 3.3 ug/L applies to cereals, hay, and pastures per the British Columbia data catalog.
71. The contents of the measured substances are lower than the Intervention Value for soil, not being the bed or bank of a surface water body, and for organic substances: msPAF < 20%
72. The contents of the measured substances are lower than the Intervention Value for soil, not being the bed or bank of a surface water body, and for metals: msPAF < 50%, with a maximum content for cadmium.
73. This values is a so—called 'Indicative Level'. No reliable Intervention Value could be derived. Indicative Levels are based on the same principles as Intervention Values but have a lower status.
74. This is organic mercury.
75. The three types of dihydroxybenzenes are catechol, resorcinol, and hydroquinone.
76. This chemical was given a value 50 mg/kg for falling under the monochloroanilines category.
77. This chemical was given a value of 50 mg/kg for falling under the dichloroanilines category.
78. This chemical was given a value of 10 mg/kg for falling under the trichloroanilines category.
79. This chemical was given a value of 30 mg/kg for falling under the tetrachloroanilines category.
80. This chemical was given a value of 10 mg/kg for falling under the pentachloroanilines category.
81. The listed value is valid when Aluminum's pH is greater than 6.5. If the pH is less than 6.5, then it has an unknown LOSP value of 0.0008 mg/kg.
82. The Marine Water value was blank from the source, but the Freshwater value is presented as a reference. For other chemical benchmarks from this source, the Freshwater value is often recommended as a cautionary substitute for Marine Waters.
83. The toxicant reliability of these values is unknown.
84. The toxicant reliability of these values is very low.
85. The toxicant reliability of these values is very high.
86. The toxicant reliability of these values is high.
87. The toxicant reliability of these values is low.
88. The toxicant reliability of these values is moderate.
89. Recommended for application for slightly to moderately disturbed ecosystems. If the LOSP 99 is recommended, it is due to the bioaccumulating nature of the toxicant. This application protects key species from acute and chronic toxicity.
90. Recommended for application for slightly to moderately disturbed ecosystems (to protect key species from chronic toxicity). However, this DGV may still not protect key test species from chronic toxicity (this refers to experimental chronic values or geometric mean for species).
91. DGV may be below routine limits of reporting for most commercial laboratories, although some laboratories may be able to achieve lower limits of reporting.
92. DGV may not protect key test species from acute (and chronic) toxicity.
93. Recommended for application for slightly to moderately disturbed ecosystems. Although bioaccumulation may be an issue, rapid depuration of this chemical represents a mitigating factor, and the 95% species protection DGV should provide sufficient protection for slightly—moderately disturbed systems. If local data suggest that bioaccumulation is an issue at the specific site, the 99% protection level may be more appropriate.
94. DGV may not protect key test species from chronic toxicity (this refers to experimental chronic values or geometric mean for species).
95. This value was derived from an acute toxicity dataset comprising 23 species from three taxonomic groups (but which did not include plants). As diuron is a herbicide, the value should be treated with additional caution.
96. This DGV is derived from mesocosm NOEC data. This is the only DGV available for this toxicant.
97. Bioaccumulation and secondary poisoning effects should be considered for this toxicant. To account for the bioaccumulating nature of this toxicant, it is recommended to apply the species protection level DGV that is one level above that which would normally be applied (e.g., if 95% level of species protection would normally be applied, then the 99% DGV should be used).
98. Bioaccumulation and secondary poisoning effects should be considered for this toxicant. Tainting or flavour impairment of fish flesh might occur at concentrations below the DGV. To account for the bioaccumulating nature of this toxicant, it is recommended to apply the species protection level DGV one level above that which would

- normally be applied (e.g., if 95% level of species protection would normally be applied, then the 99% DGV should be used). Tainting or flavour impairment of fish flesh might occur at concentrations below the DGV.
99. Bioaccumulation and secondary poisoning effects should be considered for this toxicant. Tainting or flavour impairment of fish flesh might occur at concentrations below the DGV.
 100. Bioaccumulation and secondary poisoning effects should be considered for this toxicant. Tainting or flavour impairment of fish flesh might occur at concentrations below the DGV. These DGVs and the information in the corresponding DGVs technical brief for this toxicant should be used in accordance with the detailed guidance provided on the Australian and New Zealand Guidelines for Fresh and Marine Water Quality website.
 101. Bioaccumulation and secondary poisoning effects should be considered for this toxicant.
 102. Ammonia as total ammonia nitrogen, measured as $[\text{NH}_3 - \text{N}]$ at pH 8.
 103. The DGVs apply to dissolved boron and are based on data from toxicity tests conducted for a pH range of 6.8–10 and hardness range of 9.3–250 mg CaCO_3/L . They supersede the ANZECC/ARMCANZ (2000) trigger values for boron in freshwater.
 104. Adjust DGVs for site-specific hardness using the hardness-dependent algorithm in Warne et al. (2018).
 105. Chlorine as total chlorine, measured as $[\text{Cl}]$.
 106. The copper DGVs should not be adjusted for water hardness (see Warne et al. 2018).
 107. Cyanide as un-ionized HCN, measured as $[\text{CN}]$.
 108. The DGVs are expressed in terms of the active ingredient (glyphosate) and do not relate to any of the breakdown products of glyphosate. They supersede the ANZECC/ARMCANZ (2000) trigger values for glyphosate in freshwater. Commercial formulations containing glyphosate can be more toxic than glyphosate alone. The Guidelines provide guidance on how to account for formulations (Also see Warne et al. 2018).
 109. Sulfide as un-ionized H_2S , measured as $[\text{S}]$.
 110. The DGVs relate to metolachlor only and not any of its breakdown products.
 111. The DGVs are expressed in terms of the active ingredient (metsulfuron-methyl) and do not relate to any of the breakdown products of metsulfuron-methyl. They supersede the ANZECC/ARMCANZ (2000) trigger values for metsulfuron in freshwater. These DGVs and the information in the corresponding DGVs technical brief for this toxicant should be used in accordance with the detailed guidance provided on the Australian and New Zealand Guidelines for Fresh and Marine Water Quality website, including guidance on what to do if DGVs are below analytical detection limits.
 112. The value listed as the saltwater CMC represents a benchmark value, not a criterion. Data limitations precluded the development of a CCC in saltwater.
 113. The listed value of 0.752 mg/L is at a pH level of 6.5 with a temperature of 20°C. For information on other temperatures and pH levels, refer to Table 3 [here](#).
 114. The listed value of 0.000038 mg/L is a lower-bound short-term maximum for varying water hardness and an upperbound maximum of 2.80 $\mu\text{g}/\text{L}$.
 115. This value is a result of a pH level of 6.7 and 10°C. For information on other temperatures and pH levels, refer to Table 3 [here](#).
 116. The listed value of 0.4 mg/L is a maximum, where the water hardness is 10 mg/L; otherwise, use the equation: $\text{LC50 fluoride} = -51.73 + 92.57 \log_{10}(\text{Hardness})$ and multiply by 0.01.
 117. Dissolved Pb $\text{WQG} = \exp(0.514 [\ln(\text{DOC})] + 0.214 [\ln(\text{hardness})] + 0.4354)$
 118. The listed value of 0.06 mg/L is for a chloride concentration of less than 2; 0.12 mg/L with a chloride concentration of 2–4; 0.18 mg/L with a chloride concentration of 4–6; 0.24 mg/L of a chloride concentration of 6–8; 0.3 mg/L with a chloride concentration of 8–10; and 0.6 mg/L with a chloride concentration greater than 10.
 119. Instantaneous maximum calculated from: less than or equal to $0.01102 \text{ hardness} + 0.54$.
 120. The listed value of 0.003 mg/L is for use under non-phototoxic conditions. For use under phototoxic conditions, the value 0.00005 mg/L should be used.
 121. $\text{WQG} = [e^{\{[0.645 \cdot \ln(\text{DOC})] + [2.255 \cdot \ln(\text{hardness})] + [1.995 \cdot \text{pH}] + [-0.284 \cdot (\ln(\text{hardness}) \cdot \text{pH})] - 9.898\}}] / 3$ (e.g., for a water with the following chemistry (pH = 7.5, DOC = 0.5 mg/L, hardness = 50 mg/L) the AWQG is 55 $\mu\text{g Al/L}$ (total Al).
 122. The listed value of 1.22 mg/L is at a pH level of 6.5 with a temperature of 20°C. For information on other temperatures and pH levels, refer to Table 27C [here](#).

123. The listed value of 0.004 mg/L is for use under non—phototoxic conditions. For use under phototoxic conditions, the value 0.0001 mg/L should be used.
124. The listed value of 0.0001 mg/L should be used under both non—phototoxic and phototoxic conditions.
125. The listed value of 0.0000176 mg/L is a lower—bound long—term average for varying water hardness and an upperbound average of 0.457 ug/L.
126. Average of five weekly measurements taken over a 30—day period. Calculated from: less than or equal to 0.0044 hardness + 0.605.
127. When MeHg = 0.5% of THg, the listed value of 0.00002 mg/L should be used. When MeHg = 1.0% of THg, the value of 0.01 ug/L should be used. When MeHg 8.0% of THg, the value of 0.00125 ug/L should be used.
128. The listed value of 0.02 mg/L is for a chloride concentration of less than 2; 0.04 mg/L for a chloride concentration of 2—4; 0.06 mg/L for a chloride concentration of 4—6; 0.08 mg/L for a chloride concentration of 6—8; 0.10 mg/L for a chloride concentration of 8—10; and 0.20 mg/L for a chloride concentration of more than 10.
129. Guideline is for lakes where salmonids are the predominant fish species. Total phosphorus in lakes is either the spring overturn concentration, if the residence time of the epilimnetic water exceeds 6 months, or the mean epilimnetic growing season concentration, if residence time of epilimnetic water is below 6 months.
130. The listed value of 0.00002 mg/L is for use under phototoxic conditions.
131. The listed value of 0.00005 mg/L is for use when hardness is less than or equal to 100 mg/L. If hardness is greater than 100 mg/L, then use the value of 1.5 ug/L.
132. Sulfate is dependent on water hardness (mg/L). The listed value of 128 is for a water hardness of very soft (0—30). 218 is for soft to moderately soft water hardness (31—75). 309 is for moderately soft/hard to hard water hardness (76—180). 429 is for very hard water hardness (181—250). For anything greater than 250, it needs to be determined based on site water.
133. The long—term chronic WQC = $[\exp(0.947[\ln(\text{hardness})] - 0.815[\text{pH}] + 0.398[\ln(\text{DOC})] + 4.625)] / 2$. The short—term acute WQC = $[\exp(0.833[\ln(\text{hardness})] + 0.240[\ln(\text{DOC})] + 0.526)] / 2$.
134. Sediment containing 1% organic carbon.
135. The listed value of 11 mg/kg applies to fish egg/ovary. A value of 4 mg/kg applies to fish muscle/muscle plug, fish, whole—body, and invertebrate tissue (dietary). This is Aquatic Life— Freshwater Long—term Chronic.
136. Duration < 2 hours within 24 hour period.
137. Human activities should not cause the chloride of marine and estuarine waters to fluctuate by more than 10% of the natural chloride expected at that time and depth.
138. Applies to all soil types.
139. The listed value of 0.2 mg/L is for all soil types except neutral and alkaline. 400 ug/L should be used for neutral and alkaline fine textured soils.
140. The listed value is only for forage crops.
141. The listed value of 2 mg/L is for moderately sensitive crops (red pepper, pea, carrot, radish, potato, cucumber). 4 mg/L is for moderately tolerant crops (lettuce, cabbage, celery, turnip, Kentucky bluegrass, oat, corn, artichoke, tobacco, mustard, clover, squash, muskmelon). 1 mg/L is for sensitive crops (peach, cherry, plum, grape, cowpea, onion, garlic, sweet potato, wheat, barley, sunflower, mung bean, sesame, lupin, strawberry, Jerusalem artichoke, kidney bean, lima bean). 6 mg/L is for tolerant crops (sorghum, tomato, alfalfa, purple vetch, parsley, red beet, sugar beet). 0.5 mg/L is for very sensitive crops (black—berry). 15 mg/L is for very tolerant crops (asparagus).
142. This value is for non—forage crops. A value of 0.01 mg/L is for forage crops grown in poorly drained soils, and a value of 0.02 mg/L is for forage crops grown in well drained soil.
143. The guideline for Zinc is dependent upon the pH of the soil, not the irrigation water. For Soil pH < 6, the WQC is 1 mg/L. For soil pH greater than or equal to 6 and < 7, the WQC is 2. For soil pH greater then or equal to 7, the WQC is 5.
144. The listed value of 4 mg/L is for all livestock except long lived animals, such as dairy cows and breeding stock fed normal diets. A value of 2 mg/L is for all livestock fed high fluoride diets including mineral or bone meal and feed additives. A value of 1.5 mg/L is for dairy cows, breeding stock, and long—lived animals.
145. For livestock consuming forages not irrigated or if no molybdenum containing fertilizers are applied to grow the feed consumed by livestock, a value of 0.08 mg/L should be used.
146. When nitrate and nitrite are present, total nitrate plus nitrite—nitrogen should not exceed the nitrate WQG.

147. The listed value of 1 mg/L is for dairy cows, breeding stock, and long-lived animals and all animals fed high fluoride diets including mineral or bone meal and feed additives. 2 mg/L is for all livestock except for long lived animals, such as dairy cows and breeding stock fed normal diets.
148. Guideline applies to fish or shellfish consumed by wildlife.
149. The listed value of 6 mg/kg applies to bird eggs.
150. Resin acids are pH dependent. The listed value of 0.009 mg/L is valid between pH > 6.0 and ≤ 6.5. A value of 1 ug/L is valid at a pH of 5.0. A value of 3 ug/L is valid between a pH > 5.0 and ≤ 5.5. A value of 4 ug/L is valid between a pH > 5.5 and ≤ 6.0. A value of 25 ug/L is valid between a pH > 6.5 and ≤ 7.0. A value of 45 ug/L is valid between a pH > 7.0 and ≤ 7.5. A value of 52 ug/L is valid between a pH > 7.5 and ≤ 8.0. A value of 60 ug/L is valid between a pH > 8.0 and ≤ 8.5. A value of 62 ug/L is valid between a pH > 8.5 and ≤ 9.0. Any pH less an 5.0 a site assessment may be necessary.
151. Dehydroabietic acid (DHA) is pH dependent. The listed value of 0.004 mg/L is valid between pH > 6.0 and ≤ 6.5. A value of 1 ug/L is valid at a pH of 5.0. A value of 2 ug/L is valid between a pH > 5.0 and ≤ 5.5. A value of 2 ug/L is valid between a pH > 5.5 and ≤ 6.0. A value of 8 ug/L is valid between a pH > 6.5 and ≤ 7.0. A value of 12 ug/L is valid between a pH > 7.0 and ≤ 7.5. A value of 13 ug/L is valid between a pH > 7.5 and ≤ 8.0. A value of 14 ug/L is valid between a pH > 8.0 and ≤ 8.5. A value of 14 ug/L is valid between a pH > 8.5 and ≤ 9.0. Any pH less a 5.0 - a site assessment may be necessary.
152. The benchmark can be greater than or equal to this value.
153. The value listed of 0.0011 mg/kg is the sum of compounds Aldrin and Dieldrin.
154. The value listed of 0.0052 mg/kg is the sum of compounds Heptachlor and Heptachlor epoxide.
155. The value listed of 0.021 mg/kg is the sum of Hexachlorocyclohexanes isomers.
156. The value listed of 0.25 mg/kg is the sum of Trichlorobenzenes isomers.
157. Hardness—dependent ambient water quality criterion (100 mg/L as CaCO₃ used).
158. Value is for total of all chemical forms.
159. pH—dependent ambient water quality criterion (7.8 pH used).
160. These lowest effect levels are based on 10% of the screening level concentration instead of the default value of 5%.
161. These severe effect levels are based on 90% of the screening level concentration instead of the default value of the 95%.
162. Values are tentative guidelines.
163. Aluminum is pH dependent.
164. There is a duplicate row with higher values in the source.
165. Values are the same for Arsenic dissolved and Arsenic total recoverable.
166. Mercury dissolved value is listed. Total Recoverable value is 0.0034 mg/L.
167. The value listed is for Warm Water Habitat (WWH), Exceptional Warm Water Habitat (EWH), Modified Warm Water Habitat (MWH), Cold Water Habitat (CWH), and Limited Resource Water (LRW). For Seasonal Salmonid Habitat (SSH), no chlorine is to be discharged.
168. Mercury dissolved value is listed. Total Recoverable value is 0.0017 mg/L.
169. The value listed is for Warm Water Habitat (WWH), Exceptional Warm Water Habitat (EWH), Modified Warm Water Habitat (MWH), and Cold Water Habitat (CWH). For Seasonal Salmonid Habitat (SSH), no chlorine is to be discharged.
170. Mercury dissolved value is listed. Total Recoverable value is 0.00091 mg/L. Lake Erie Basin Total Recoverable value is 0.0000013 mg/L.
171. Selenium dissolved value is listed. Total Recoverable value is 0.005 mg/L.
172. The listed value is for Warm Water Habitat (WWH), Exceptional Warm Water Habitat (EWH), and Modified Warm Water Habitat (MWH).
173. The listed value is for Seasonal Salmonid Habitat (SSH) and Cold Water Habitat (CWH).
174. Ammonia's value is pH dependent. For Warm Water Habitat (WWH), Modified Warm Water Habitat (MWH), and Limited Resource Habitat (LRW), pH ranges between 6.5 – 7.7 with a temperature between 0C and 26C the value of 13 mg/L should be used. All other pH levels and temperatures should be referenced in Table 35–2. Link to the tables is [here](#).

175. For Exceptional Warm Water Habitats (EWH) with a pH range of 6.5 – 7.4 and a temperature between 0C and 25C, the value of 13 mg/L should be used. All other pH levels and temperatures should be referenced in Table 35–3. Link to the tables is [here](#).
176. For Cold Water Habitat (CWH) and Seasonal Salmonid Habitat (SSH) with a pH range of 6.5 – 7.4 and a temperature between 0C and 20C, the value of 13 mg/L should be used. All other pH levels and temperatures should be referenced in Table 35–4. Link to the tables is [here](#).
177. Pentachlorophenol is pH dependent. The listed value of 0.011 mg/L is for a pH level of 7.5. For other pH levels, refer to Table 35–10. Link to the tables is [here](#).
178. Cadmium is water hardness dependent. The listed value is for a water hardness of 100. For other hardness levels and forms, see Table 35–9. Link to the tables is [here](#).
179. Chromium is water hardness dependent. The listed value is for a water hardness of 100. For other hardness levels and forms, see Table 35–9 [here](#).
180. In addition, any whole sample of any representative aquatic organisms shall not exceed 0.64 mg/kg (wet weight).
181. Ammonia's value is pH dependent. For Warm Water Habitat (WWH) with pH ranges between 6.5 – 7.7 with a temperature between 10C and 14C, and during the months of March to November the value of 2.3 mg/L should be used. All other pH levels, temperatures, and months should be referenced in Table 35–5. Link to the tables is [here](#).
182. Ammonia's value is pH dependent. For Exceptional Warm Water Habitats (EWM) with pH ranges between 6.5 – 7.7, a temperature between 10C and 13C, and during the months of March to November, the value of 2.2 mg/L should be used. All other pH levels, temperatures, and months should be referenced in Table 35–6. Link to the tables is [here](#).
183. Ammonia's value is pH dependent. For Modified Warm Water Habitat (MWH) with pH ranges between 6.5 – 7.7, a temperature between 10C and 13C, and during the months of March to November, the value of 3.4 mg/L should be used. All other pH levels, temperatures, and months should be referenced in Table 35–7. Link to the tables is [here](#).
184. Ammonia's value is pH dependent. For Cold Water Habitat (CWH) with pH ranges between 6.5 – 7.7 with a temperature between 8C and 13C, a value of 2.2 mg/L should be used. All other pH levels and temperatures should be referenced in Table 35–8. Link to the tables is [here](#).
185. Copper is water hardness dependent. The listed value is for a water hardness of 100. For other hardness levels and forms, see Table 35–9 [here](#).
186. Lead is water hardness dependent. The listed value is for a water hardness of 100. For other hardness levels and forms, see Table 35–9 [here](#).
187. Nickel is water hardness dependent. The listed value is for a water hardness of 100. For other hardness levels and forms, see Table 35–9 [here](#).
188. Zinc is water hardness dependent. The listed value is for a water hardness of 100. For other hardness levels and forms, see Table 35–9 [here](#).
189. This criterion applies to the sum of DDT and metabolites.
190. The form of the chemical is dissolved.
191. The form of the chemical is total recoverable.
192. The form of the chemical is total.
193. The form of the chemical is total residual.
194. The form of the Cyanide is free.
195. Values enclosed by "()" were not calculated according to the regulations, due to limited data. These values should only be used for advisory purposes, such as establishing "reasonable potential".
196. Values enclosed by "[]" are national criteria and should be used for advisory purposes only.
197. Values are estimates.
198. Values are pH based.
199. Criterion is expressed as a function of the Water Effect Ratio (WER). For criterion in the table, WER equates to the default value of 1.0.
200. Dissolved criterion.
201. Criteria expressed as free cyanide (as CN)/L.
202. The value listed is calculated with an assumed hardness level of 100. To calculate additional hardness values, use the formulas provided in the document on page 34.

203. Westhollow Technical Center Levels were developed by Shell Oil for surface water and were approved for use by NJDEP with the following conditions: 1) the source area is removed, 2) these levels are on the fringe of the contamination area, and 3) active remediation is occurring. These levels are applicable to surface water and wetland areas.
204. The value listed is calculated with an assumed pH of 6.8 and temperature of 20C. For other values regarding various temperatures and pH levels, use the formulas provided in the document on page 33.
205. This value is for the total of Heptachlor/Heptachlor epoxide.
206. The benzene hexachloride (BHC) value applies to all stereoisomers of 1,2,3,4,5,6-hexachlorocyclohexane.
207. This value applies to all chlorinated dibenzofurans.
208. This value applies to all chlorinated dibenzo-p-dioxins.
209. Criteria for these metals are measured as total recoverable metal. However, they may be applied as dissolved metals when, as part of a permit application, a dissolved metals translator has been established according to the procedures described in the document, "Guidance for Establishing a Metal Translator", Florida Department of Environmental Protection, December 17, 2001.
210. In the absence of concentration data specific for the III and VI valence states of chromium, total chromium concentrations in surface water should be compared to the criteria for Chromium (hexavalent).
211. These values were derived assuming soil pH 6.8. These leachability values are dependent upon both the metal concentration in soil and soil characteristics. Thus, if site-specific soil characteristics are different than the defaults, these leachability values may not apply. If this is the case, site-specific leachability values should be derived using methods such as TCLP or SPLP.
212. Phytotoxicity must be considered.
213. Unless concentrations for both chromium III and VI are known, total chromium concentrations should be compared with direct exposure SCTLs for chromium VI.
214. Expressed as dissolved.
215. Expressed as total recoverable.
216. Criteria do not apply to waters subject to water quality objectives in Tables III-2A and III-2B of the San Francisco Bay Regional Water Quality Control Board's 1986 Basin Plan.
217. Criterion most appropriately applied to the sum of alpha-Endosulfan and beta-Endosulfan.
218. For nonchlorinated phenolic compounds.
219. For chlorinated phenolic compounds.
220. For benzene hexachloride isomers.
221. Value developed for chromium (VI); may be applied to total chromium if valence is unknown.
222. For the sum of alpha-Endosulfan, beta-Endosulfan, and Endosulfan sulfate.
223. Expressed as nitrogen.
224. For total chlorine residual.
225. For dissolved chloride associated with sodium; criterion probably will not be adequately protective when chloride is associated with potassium, calcium, or magnesium rather than sodium.
226. Expressed as free cyanide (as CN).
227. For pH between 6.5 and 9.0. Use of Water-Effects Ratios might be appropriate because: (1) aluminum is less toxic at higher pH and hardness but relationship not well quantified; (2) aluminum associated with clay particles may be less toxic than that associated with aluminum hydroxide particles; and (3) many high quality waters in U.S. exceed 87 ug/L as total or dissolved.
228. Applies to DDT and its metabolites (i.e., the total concentration of DDT and its metabolites should not exceed this value).
229. Interim.
230. This value is for ruminant livestock. For non-ruminants, use 0.284
231. See the Ecological Soil Screening Level for Aluminum, Interim Final, OSWER Directive 9285.7-60, available [here](#)
232. See the Ecological Soil Screening Level for Iron, Interim Final, OSWER Directive 9285.7-69, available [here](#)
233. The chronic freshwater-based and chronic tissue-based criteria are independently applicable and no one criterion takes primacy. The value here is for water. Other values are as follows: 0.000028 mg/kg wet weight for invertebrate whole-body tissue; 0.000201 mg/kg wet weight for fish whole-body tissue; and 0.000087 mg/kg wet weight for fish muscle tissue.

234. The chronic freshwater—based and chronic tissue—based criteria are independently applicable and no one criterion takes primacy. The value here is for water. Other values are as follows: 0.00108 mg/kg wet weight for invertebrate whole—body tissue; 0.00649 mg/kg wet weight for fish whole—body tissue; and 0.000133 mg/kg wet weight for fish muscle tissue.
235. pH 6.5—9.0
236. Criteria is for total dissolved form.
237. Freshwater criteria calculated using the EPA Biotic Ligand Model.
238. Cyanide measured as free cyanide at the lowest pH occurring in the receiving water or cyanide amenable to chlorination.
239. The one—hour average concentration of total ammonia nitrogen (in mg TAN/L) is not to exceed, more than once every three years on the average, the CMC (acute criterion magnitude) calculated using the following equation:

$$\text{CMC} = \text{MIN}((0.275/(1 + 10^{(7.204 - \text{pH})})) + (39/(1 + 10^{(\text{pH} - 7.204)})), (0.7249 * ((0.0114/(1 + 10^{(7.204 - \text{pH})}) + (1.6181/(1 + 10^{(\text{pH} - 7.204)})) * (23.12 * 10^{(0.036 * (20 - t))}))), \text{ where } \text{pH} = \text{pH of interest, } t = \text{temperature degrees Celsius.}$$
240. The thirty—day rolling average concentration of total ammonia nitrogen (in mg TAN/L) is not to exceed, more than once every three years on the average, the chronic criterion magnitude (CCC) calculated using the following equation:

$$\text{CCC} = 0.8876 * ((0.0278/(1 + 10^{(7.688 - \text{pH})})) + (1.1994/(1 + 10^{(\text{pH} - 7.688)}))) * (2.126 * 10^{(0.028 * (20 - \text{MAX}(T \text{ where } \text{pH} = \text{pH of interest, } t = \text{temperature degrees Celsius. In addition, the highest 4—day average within the 30—day averaging period should not be more than 2.5 times the CCC more than once in 3 years on average.}$$
241. Value = $\text{EXP}^{(0.9789 * \text{LN}(\text{hardness}) - 3.866) * (1.136672 - ((\text{LN}(\text{hardness}) * (0.041838))))}$, where EXP = $e = 2.71828$, LN = natural log base e, and hardness is expressed as mg/L as CaCO₃.
242. Value = $\text{EXP}^{(0.7977 * \text{LN}(\text{hardness}) - 3.909) * (1.101672 - ((\text{LN}(\text{hardness}) * (0.041838))))}$, where EXP = $e = 2.71828$, LN = natural log base e, and hardness is expressed as mg/L as CaCO₃.
243. Value = $0.316 * \text{EXP}(0.819 * \text{LN}(\text{hardness}) + 3.7256)$, where EXP = $e = 2.71828$, LN = natural log base e, and hardness is expressed as mg/L as CaCO₃.
244. Value = $0.86 * \text{EXP}(0.819 * \text{LN}(\text{hardness}) + 0.6848)$, where EXP = $e = 2.71828$, LN = natural log base e, and hardness is expressed as mg/L as CaCO₃.
245. Value = $(1.46203 - \text{LN}(\text{hardness}) * 0.145712) * \text{EXP}(1.273 * \text{LN}(\text{hardness}) - 1.460)$, where EXP = $e = 2.71828$, LN = natural log base e, and hardness is expressed as mg/L as CaCO₃.
246. Value = $(1.46203 - \text{LN}(\text{hardness}) * 0.145712) * \text{EXP}(1.273 * \text{LN}(\text{hardness}) - 4.705)$, where EXP = $e = 2.71828$, LN = natural log base e, and hardness is expressed as mg/L as CaCO₃.
247. Value = $0.998 * \text{EXP}(0.8460 * \text{LN}(\text{hardness}) + 2.255)$, where EXP = $e = 2.71828$, LN = natural log base e, and hardness is expressed as mg/L as CaCO₃.
248. Value = $0.997 * \text{EXP}(0.8460 * \text{LN}(\text{hardness}) + 0.0584)$, where EXP = $e = 2.71828$, LN = natural log base e, and hardness is expressed as mg/L as CaCO₃.
249. Value = $\text{EXP}(1.005 * \text{pH} - 4.869)$, where EXP = $e = 2.71828$, LN = natural log base e, and hardness is expressed as mg/L as CaCO₃.
250. Value = $\text{EXP}(1.005 * \text{pH} - 5.134)$, where EXP = $e = 2.71828$, LN = natural log base e, and hardness is expressed as mg/L as CaCO₃.
251. Value = $0.85 * \text{EXP}(1.72 * \text{LN}(\text{hardness}) - 6.59)$, where EXP = $e = 2.71828$, LN = natural log base e, and hardness is expressed as mg/L as CaCO₃.

