**Cause (Pollutant)** **Cause Code**

.alpha.-BHC 01

.alpha.-Endosulfan(Endosulfan 1) 02

.beta.-BHC 03

.beta.-Endosulfan (Endosulfan 2) 04

.delta.-BHC 05

1,1,1,2-Tetrachloroethane 06

1,1,1-Trichloroethane 07

1,1,2,2-Tetrachloroethane 08

1,1,2-Trichloroethane 09

1,1-Dichloro-1,2,2-trifluoroethane 10

1,1-Dichloroethane 11

1,2,3,4-Tetrachlorobenzene 12

1,2,4,5-Tetrachlorobenzene 13

1,2,4-Trichlorobenzene 14

1,2,4-Trimethylbenzene 15

1,2-Butylene oxide 16

1,2-Dibromo-3-chloropropane 17

1,2-Dibromo-3-chloropropane (DBCP) 18

1,2-Dichlorobenzene N/A

1,2-Dichloroethane 19

1,2-Dichloroethylene 20

1,2-Dichloropropane 21

1,2-Diphenylhydrazine 22

1,2-trans-dichloroethylene N/A

1,3-Butadiene 23

1,3-Dichloropropene 24

1,4-Dioxane 25

2,2'-Dichlorodiethyl ether 26

2,2'-Dichlorodiisopropyl ether 27

2,3,7,8-Tetrachlorodibenzofuran 28

2,3-Dichloropropene 29

2,4,5-TP (Silvex) 30

2,4,5-Trichlorophenol 31

2,4,6-Trichlorophenol 33

2,4-D1 34

2,4-Diaminotoluene 35

2,4-Dichlorophenol 36

2,4-Dimethylphenol 37

2,4-Dinitrophenol 38

2,4-Dinitrotoluene 39

2,5-Dichlorophenol 40

2,6-Dinitrotoluene 41

2-Acetylaminofluorene 42

2-Chloroethyl vinyl ether 43

2-Chloronaphthalene 44

**Cause (Pollutant)** **Cause Code**

2-Chlorophenol 45

2-Ethoxyethanol 46

2-Methoxyethanol 47

2-Methylnaphthalene 48

2-Methylpyridine 49

2-Nitrophenol 50

3,3'-Dichlorobenzidine 51

3,3'-Dimethoxybenzidine 52

3,3'-Dimethylbenzidine 53

3,4-Dichlorophenol 54

3-Chlorophenol 55

4,4'-Isopropylidenediphenol 56

4,4'-Methylenebis 57

4,4-Dichloro-2-butene 58

4-Aminobiphenyl 59

4-Bromophenylphenyl ether 60

4-Chloro-3-methylphenol

(3-methyl-4-chlorophenol) 61

4-Chlorophenol 62

4-Dimethylaminoazobenzene 63

4-Methylphenol 64

4-Nitrophenol 65

5-Nitro-o-toluidine 66

Acenaphthene 68

Acenaphthylene 69

Acetaldehyde 70

Acetamide 71

Acetochlor 72

Acetonitrile 73

Acrolein 74

Acrylamide 75

Acrylonitrile 76

Alachlor 77

Aldicarb 78

Aldrin1 79

Alkalinity, Carbonate as CaCO3 80

Allyl alcohol 81

Allyl chloride 82

Alpha particles 83

Alum (aluminum sulfate) 86

Aluminum 87

Amitrole 90

Ammonia (Un-ionized) 91

Amnesic shellfish poisoning

(ASP) biotoxins 92

**Cause (Pollutant)** **Cause Code**

Aniline 93

Anthracene 94

Antimony 95

Arsenic 96

Asbestos 97

Atrazine 99

BOD, Biochemical oxygen demand 100

BOD, carbonaceous 101

BOD, nitrogenous 102

BOD, sediment load

(Sediment Oxygen Demand) 103

Barium 104

Benzal chloride 106

Benzene 107

Benzidine 108

Benzo(a)pyrene (PAHs) 109

Benzo[a]anthracene 110

Benzo[b]fluoranthene 111

Benzo[g,h,i]perylene 112

Benzo[k]fluoranthene 113

Benzoic Acid 114

Benzoyl chloride 115

Benzyl chloride 116

Beryllium1 117

Beta particles and photon emitters 118

Biphenyl 119

Bis(2-chloroethyl) ether N/A

Bis(2-chloroethoxy)methane 120

Bis(2-chloroisopropyl) ether N/A

Bis(2-chlormethyl) ether N/A

Bis(2-ethylhexyl) phthalate N/A

Bis(2-chloro-1-methylethyl) 121

Bis(n-octyl) phthalate 122

Boron 123

Bromoform 124

Butyl benzyl phthalate 125

Butyraldehyde 126

Cadmium 127

Captan 128

Carbaryl 129

Carbofuran 130

Carbon Disulfide 131

Carbon tetrachloride 132

Cesium 133

Chemical oxygen demand (COD) 134

**Cause (Pollutant)** **Cause Code**

Chloramben 135

Chloramines 136

Chlordane 137

Chloride 138

Chlorine 139

Chlorine dioxide (as ClO2) 140

Chloroacetic acid 141

Chlorobenzene (mono) 142

Chlorobenzilate 143

Chlorodibromomethane 144

Chlorodifluoromethane 145

Chloroethane 146

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Chloromethyl methyl ether 148

Chlorophenyl-4 phenyl ether 149

Chloroprene 151

Chlorothalonil 152

Chlorpyrifos 153

Chromium (total)1 154

Chromium, hexavalent 155

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Ciguatera fish poisoning

(CFP) biotoxins 158

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Cresol (mixed isomers) 165

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Cyanobacteria hepatotoxic nodularins 171

Cyanobacteria neurotoxic anatoxins 172

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DDD1 175

DDE 176

DDT 177

DEHP (di-sec-octyl phthalate) 178

Dacthal 179

Dalapon 180

**Cause (Pollutant)** **Cause Code**

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Demeton 182

Di(2-ethylhexyl) adipate 183

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Diaminotoluene (mixed isomers) 185

Diarrhetic shellfish poisoning

(DSP) biotoxins 186

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Dibenz[a,h]anthracene 188

Dibenzofuran 189

Dibutyl phthalate 190

Dichlorobenzene (mixed isomers) 191

Dichlorobromomethane 192

Dichlorodifluoromethane 193

Dichloromethane 194

Dichlorotrifluoroethane 195

Dichlorvos 196

Dicofol 197

Dieldrin 198

Diethyl phthalate1 199

Dimethyl phthalate 200

Dinitro-o-cresol 201

Dinitrophenols N/A

Dinoseb 202

Dioxin (including 2,3,7,8-TCDD) 203

Diquat 204

Disulfoton 206

Diuron 207

Dyfonate (Fonofos or Fonophos) 208

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Endosulfan sulfate 211

Endothall 212

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Endrin aldehyde 214

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Epichlorohydrin 216

*Escherichia coli* (*E. coli*) 217

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Ether, bis(chloromethyl) 220

Ethylbenzene 221

Ethylene 222

Ethylene glycol 223

Ethylene oxide 224

Ethylene thiourea 225

**Cause (Pollutant)** **Cause Code**

Fish-passage barrier 228

Fish kills 229

Fluometuron 231

Fluoranthene 232

Fluorene 233

Fluoride 234

Foam/Flocs/Scum/Oil Slicks 235

Formaldehyde 236

Formic acid 237

Furan compounds 238

*Giardia lamblia* 239

Glyphosate 240

Gold 241

Guthion 242

Heptachlor 244

Heptachlor epoxide 245

Hexachlorobenzene 246

Hexachlorobutadiene 247

Hexachlorocyclohexane 248

Hexachlorocyclohexane 249

Hexachlorocyclohexane-Technical N/A

Hexachlorocyclohexane (mixture) 250

Hexachlorocyclopentadiene 251

Hexachloroethane 252

Hexachlorophene 253

Hexamethylphosphoramide 254

Hydrazine 255

Hydrochloric acid 256

Hydrogen cyanide 257

Hydroquinone 258

Indeno[1,2,3-cd]pyrene 259

Iron 260

Isobutyraldehyde 261

Isophorone 262

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Isosafrole 264

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Lead 267

Lindane 268

Linuron 269

Malathion 271

Maleic anhydride 272

Manganese 273

Mercury 274

Methacrylonitrile 275

**Cause (Pollutant)** **Cause Code**

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Methoxychlor 277

Methyl Parathion 278

Methyl Tertiary-Butyl Ether (MTBE) 279

Methyl bromide 280

Methyl chloride 281

Methyl ethyl ketone 282

Methyl hydrazine 283

Methyl iodide 284

Methyl isobutyl ketone 285

Methyl methacrylate 286

Methylene bromide 287

Methylene chloride (dichloride) N/A

Methylmercury 288

Mirex 289

Molinate 290

Molybdenum 291

N-Nitroso-N-ethylurea 292

N-Nitroso-N-methylurea 293

N-Nitrosodimethylamine 294

N-Nitrosodibutylamine N/A

N-Nitrosodiethylamine N/A

N-Nitrosodiphenylamine 295

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(NSP) biotoxins 300

Nickel 301

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Nitrilotriacetic acid 303

Nitrobenzene 304

Nitrodibutylamine,N 305

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Octochloronaphthalene 315

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Simazine 376

Sodium 377

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Tin 395

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Total dissolved solids 399

Fecal coliform 400

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Total Suspended Solids (TSS) 403

Total Trihalomethane (TTHM) 404

Toxaphene 405

Tributylin TBT (Tributylstanne) 406

Trichlorfon 407

Trichloroethylene 408

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Triethylene Glycol Dichloride 410

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m-Dichlorobenzene 429

m-Dinitrobenzene 430

m-Xylene 431

n-Butyl alcohol 432

o-Cresol (2-Methylphenol) 433

o-Dichlorobenzene 434

o-Toluidine 435

o-Toluidine hydrochloride 436

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Aluminum, dissolved 524

Aluminum, total recoverable 525

Selenium, dissolved 526

Selenium, total recoverable 527

Mercury, dissolved 528

Mercury, total 529

**—Pollution—**

Definition of pollution under the CWA (Section 502[19]): *The man-made or man-induced alteration of the chemical, physical, biological, and radiological integrity of water.*

The following is a list of measurements and categories considered pollution. There are ADB codes for these, but in and of themselves do not constitute a pollutant; therefore, they will not be included in a 303(d) listing, nor result in a TMDL.

**Pollution** **ADB Code**

Abnormal fish histology (lesions) 67

Alteration in stream-side or littoral

vegetative covers 84

Alterations in wetland habitats 85

Ambient bioassays -- acute

aquatic toxicity 88

Ambient bioassays -- chronic

aquatic toxicity 89

Atlantic sea lamprey,

*Petromyzon marinus* 98

Benthic macroinvertebrate

bioassessments 105

Chlorophyll-a 150

Combination benthic/fishes

bioassessments 161

Combined biota/habitat

bioassessments 162

Dissolved oxygen saturation 205

Excess algal growth 227

Fishes bioassessments 230

Habitat assessment (streams) 243

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Low flow alterations 270

Non-native fish, shellfish, or

zooplankton 313

Periphyton (aufwuchs) indicator

bioassessments 336

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Trophic state index 412

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lesions, tumors (DELTS) 445

Habitat assessment (lakes) 446

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and marine water 370

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Sodium Adsorption Ratio (SAR) 509

Algal growth potential (AGP) 514

Plankton count 515

**Sources**

|  |  |  |  |
| --- | --- | --- | --- |
| **ID** | **Source** | **ID** | **Source** |
|  | ***Agriculture*** |  | ***Non-Point Sources (Continued)*** |
| 4 | Animal feeding operations (NPS) | 169 | Unspecified urban stormwater |
| 5 | Animal shows and racetracks | 171 | Unspecified land disturbance |
| 6 | Aquaculture (not permitted) | 175 | Contaminated groundwater |
| 7 | Aquaculture (permitted) | 177 | Urban runoff/storm sewers |
| 11 | Auction barns | 181 | Runoff from forest/grassland/parkland |
| 30 | Crop production with subsurface drainage | 141 | Non-point source |
| 31 | Dairies (outside milk parlor areas) | 185 | Failing infrastructure (sanitary sewers) |
| 46 | Grazing in riparian or shoreline zones |  |  |
| 73 | Managed pasture grazing |  | ***Habitat Impacts*** |
| 87 | Non-irrigated crop production | 19 | Channel erosion/incision from upstream hydromodifications |
| 100 | Permitted runoff from Confined Animal Feeding Operations (CAFOs) | 20 | Channelization (canalization) |
| 108 | Rangeland grazing | 21 | Clean sediments |
| 123 | Specialty crop production | 36 | Drainage/filling/loss of wetlands |
| 143 | Livestock (grazing or feeding operations) | 38 | Dredging (e.g., for navigation channels) |
| 144 | Crop production (crop land or dry land) | 42 | Flow alterations from water diversions |
| 156 | Agriculture | 44 | Freshettes or major flooding |
| 161 | Pesticide application | 51 | Historic bottom deposits (not sediment) |
| 173 | Manure runoff | 52 | Hydrostructure impacts on fish passage |
| 174 | Unrestricted cattle access | 71 | Littoral/shore area modifications (non-riverine) |
| 179 | Lake fertilization | 72 | Loss of riparian habitat |
|  |  | 125 | Streambank modifications/destablization |
|  | ***Non-Point Sources*** | 132 | Upstream impoundments (e.g., Pl-566 NRCS structures) |
| 8 | Atmospheric deposition - acidity | 157 | Habitat modification - other than hydromodification |
| 9 | Atmospheric deposition - nitrogen | 163 | Low water crossing |
| 10 | Atmospheric deposition - toxics | 186 | Shallow lake or reservoir basin |
| 16 | Cercla NPL (superfund) sites |  |  |
| 24 | Commercial districts (industrial parks) |  | ***Silviculture*** |
| 26 | Commercial districts (shopping/office Complexes) | 43 | Forest roads (road construction and use) |
| 67 | Land application of wastewater (non-agricultural) | 101 | Permitted silvicultural activities |
| 68 | Land application of wastewater biosolids (non-agricultural) | 118 | Silviculture - large scale (industrial) unpermitted forestry |
| 84 | Municipal (urbanized high density area) | 119 | Silviculture harvesting |
| 92 | On-site treatment systems (septic & similar decencentralized systems) | 120 | Silviculture plantation management |
| 97 | Other spill related impacts | 121 | Silviculture reforestation |
| 107 | Post-development erosion and sedimentation | 137 | Woodlot site clearance (majority of KY forestland in private ownership) |
| 111 | Residential districts |  |
| 122 | Site clearance (land development or redevelopment) | 138 | Woodlot site management (sm. private tree farms) |
| 130 | Unpermitted discharge (domestic wastes) | 158 | Siliviculture, fire suppression |
| 131 | Unpermitted discharge (industrial/commercial Wastes) | 161 | Pesticide application |
| 133 | Wastes from pets | 162 | Watershed runoff following Forest Fire |
| 134 | Waterfowl | 166 | Silviculture activities |
| 136 | Wildlife other than waterfowl |  |  |
| 141 | Non-point source |  |  |
| 146 | Sources outside state jurisdiction or borders |  |  |
| 153 | Wet weather discharges (non-point source) |  |  |
| 161 | Pesticide application |  |  |
| 162 | Watershed runoff following forest fire |  |  |
| **ID** | **Source** | **ID** | **Source** |
|  | ***Resource Extraction*** |  | ***Transportation (Continued)*** |
| 37 | Dredge mining (e.g., coal removal from Big Sandy R. channel) | 15 | Cargo loading/unloading |
| 2 | Acid mine drainage | 25 | Commercial ferries |
| 22 | Coal mining discharges (permitted) | 50 | Highways, roads, bridges, infrastructure (new construction) |
| 47 | Hardrock Mining Discharges (Permitted) | 49 | Highway/road/bridge runoff (non-construction related) |
| 48 | Heap-leach extraction mining | 112 | Salt storage sites |
| 56 | Impacts from abandoned mine lands (inactive) | 124 | Spills from trucks or trains |
| 82 | Mine tailings | 170 | Unspecified unpaved road or trail |
| 83 | Mountaintop mining |  |  |
| 93 | Open-pit mining |  | ***Industrial Sources*** |
| 102 | Petroleum/natural gas activities | 61 | Industrial land treatment |
| 103 | Petroleum/natural gas production activities (permitted) | 62 | Industrial point source discharge |
| 105 | Placer mining | 63 | Industrial thermal discharges |
| 114 | Sand/gravel/rock mining or quarries | 64 | Industrial/commercial site stormwater discharge (permitted) |
| 126 | Subsurface (hardrock) mining | 122 | Site Clearance (land development or redevelopment) |
| 127 | Surface mining |  |  |
| 159 | Reclamation of inactive mining |  | ***Recreation Sources*** |
| 165 | Coal mining | 95 | Other recreational pollution sources |
| 172 | Potash mining | 45 | Golf courses |
| 178 | Coal mining (subsurface) | 60 | Impacts from resort areas (winter and non-winter resorts) |
| 184 | Coal mining (surface/subsurface) | 91 | Off-road vehicles |
| 186 | Legacy coal extraction | 106 | Pollutants from public bathing areas |
|  |  | 181 | Runoff from forest/grassland/parkland |
|  | ***Municipal Point Sources*** |  |  |
| 23 | Combined sewer overflows |  | ***Sediments*** |
| 33 | Discharges from biosolids (SLUDGE) storage, application or disposal | 28 | Contaminated sediments |
| 34 | Discharges from Municipal Separate Storm Sewer Systems (MS4) | 65 | Internal nutrient recycling |
| 85 | Municipal point source discharges | 148 | Sediment re-suspension (clean sediment) |
| 86 | Municipal point source impacts from Inadequate Industrial/Commercial Pretreatment | 149 | Sediment re-suspension (contaminated sediment) |
| 86 | Municipal point source impacts from inadequate industrial/commercial pretreatment |  |  |
| 99 | Package plant or other permitted small flows discharges |  | ***Marina/Boating Sources*** |
| 115 | Sanitary sewer overflows (collection system failures) | 74 | Marina boat construction |
| 128 | Total retention domestic sewage lagoons | 75 | Marina boat maintenance |
| 185 | Failing treatment infrastructure associated with sanitary sewers (leaking collection system) | 76 | Marina dredging operations |
| 135 | Wet weather discharges (point source and combination of stormwater, | 77 | Marina fueling operations |
|  | SSO or CSO) | 78 | Marina-related shoreline erosion |
|  |  | 79 | Marina/boating pumpout releases |
|  | ***Transportation*** | 80 | Marina/boating sanitary on-vessel discharges |
| 3 | Airports | 94 | Other Marina/Boating On-vessel Discharges |
| 12 | Ballast water releases | 117 | Shipbuilding, repairs, drydocking |
| **ID** | **Source** |  |  |
|  | ***Water Quantity or Withdrawal*** |  |  |
| 13 | Baseflow depletion from groundwater withdrawals |  |  |
| 113 | Saltwater intrusion from groundwater overdrafting |  |  |
| 152 | Transfer of water from an outside watershed |  |  |
|  |  |  |  |
|  | ***Permitted Sources (other)*** |  |  |
| 1 | Above ground storage tank leaks (tank farms) |  |  |
| 8 | Atmospheric deposition – acidity |  |  |
| 9 | Atmospheric deposition - nitrogen |  |  |
| 10 | Atmospheric deposition - toxics |  |  |
| 27 | Construction stormwater discharge (permitted) |  |  |
| 69 | Landfills |  |  |
| 70 | Leaking underground storage tanks |  |  |
| 109 | RCRA hazardous waste sites |  |  |
| 146 | Sources outside state jurisdiction or borders |  |  |
| 153 | Wet weather discharges (non-point source) |  |  |
| 175 | Contaminated groundwater |  |  |
|  |  |  |  |
|  | ***Inappropriate or Illegal Waste Disposal*** |  |  |
| 54 | Illegal dumps or other inappropriate waste disposal |  |  |
| 55 | Illicit connections/hook-ups to storm sewers |  |  |
| 116 | Septage disposal |  |  |
| 130 | Unpermitted discharge (domestic wastes) |  |  |
| 160 | Inappropriate waste disposal |  |  |
| 167 | Unspecified domestic waste (e.g. straight-pipes) |  |  |
| 168 | Sewage discharges in unsewered areas |  |  |
|  |  |  |  |
|  | ***Other*** |  |  |
| 17 | Changes in ordinary stratification and bottom water hypoxia/anoxia |  |  |
| 39 | Drought-related impacts |  |  |
| 57 | Impacts from geothermal development |  |  |
| 65 | Internal nutrient recycling |  |  |
| 92 | On-site treatment systems (septic & similar decencentralized systems) |  |  |
| 140 | Source unknown |  |  |
| 145 | Natural conditions - water quality standards use attainability analyses needed |  |  |
| 147 | Upstream source |  |  |
| 150 | Forced drainage pumping |  |  |
| 151 | Naturally occurring organic acids |  |  |
| 154 | Upstream/downstream source |  |  |
| 155 | Natural sources |  |  |
| 176 | Rural (residential areas) |  |  |
| 180 | Introduction of non-native organisms (accidental or intentional) |  |  |
| 187 | Shallow lake/reservoir basin |  |  |