**Section 811.APPENDIX C List of Leachate Monitoring Parameters**

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| Acenaphthene (1,2-dihydroacenaphthylene; CAS No. 83-32-9) |
| Acetone (dimethyl ketone, propan-2-one; CAS No. 67-64-1) |
| Alachlor (2-chloro-N-(2,6-diethylphenyl)-N-(methoxymethyl)acetamide; CAS No. 15972-60-8) |
| Aldicarb (2-methyl-2-(methylthio)propanal O-((methylamino)carbonyl)oxime; CAS No. 116-06-3) |
| Aldrin (CAS No. 309-00-2) |
| α-BHC ((1α,2α,3β,4α,5β,6β)-1,2,3,4,5,6-hexachlorocyclohexane, α-hexachlorocyclohexane; CAS No. 319-84-6) |
| β-BHC ((1α,2β,3α,4β,5α,6β)-1,2,3,4,5,6-hexachlorocyclohexane, β-hexachlorocyclohexane; CAS No. 319-85-7) |
| δ-BHC ((1α,2α,3α,4β,5α,6β)-1,2,3,4,5,6-hexachlorocyclohexane, δ-hexachlorocyclohexane; CAS No. 319-86-8) |
| Aluminum (CAS No. 7429-90-5) |
| Ammonia nitrogen as N (CAS No. 7664-41-7) |
| Anthracene (CAS No. 120-12-7) |
| Antimony (CAS No. 7440-36-0) |
| Arsenic (total) (CAS No. 7440-38-2) |
| Atrazine (6-chloro-N-ethyl-N-(propan-2-yl)-1,3,5-triazine-2,4-diamine; CAS No. 1912-24-9) |
| Bacteria (fecal coliform) |
| Barium (total) (CAS No. 7440-39-3) |
| Benzene (CAS No. 71-43-2) |
| Benzo(a)anthracene (tetraphene; CAS No. 56-55-3) |
| Benzo(b)fluoranthene (benz(e)acephenanthrylene; CAS No. 205-99-2) |
| Benzo(k)fluoranthene (CAS No. 207-08-9) |
| Benzo(ghi)perylene (CAS No. 191-24-2) |
| Benzo(a)pyrene (benzo(pqr)tetraphene; CAS No. 50-32-8) |
| Beryllium (total) (CAS No. 7440-41-7) |
| Bicarbonate (CAS No. 71-52-3) |
| Biochemical oxygen demand (BOD5) |
| Bis(2-chloro-1-methylethyl) ether (1-chloro-2-(1-chloropropan-2-yloxy)propane, 2,2'-oxybis(1-chloropropane); CAS No. 108-60-1) |
| Bis(2-chloroethoxy)methane (1-chloro-2-(2-chloroethoxymethoxy)ethane, 1,1'-(methylenebis(oxy))bis(2-chloroethane); CAS No. 111-91-1) |
| Bis(2-chloroethyl) ether (1-chloro-2-(2-chloroethoxy)ethane; CAS No. 111-44-4) |
| Bis(2-ethylhexyl) ether (3-(2-ethylhexoxymethyl)heptane; CAS No. 10143-60-9) |
| Bis(2-ethylhexyl) phthalate (bis(2-ethylhexyl) benzene-1,2-dicarboxylate; CAS No. 117-81-7) |
| Bis(chloromethyl) ether (chloro(chloromethoxy)methane, 1,1'-oxybis(1-cloromethane); CAS No. 542-88-1) |
| Boron (CAS No. 7440-42-8) |
| Bottom of well elevation |
| Bromobenzene (CAS No. 108-86-1) |
| Bromochloromethane (CAS No. 74-97-5) |
| Bromodichloromethane (CAS No. 75-27-0) |
| Bromoform (tribromomethane; CAS No. 75-25-2) |
| Bromomethane (CAS No. 74-83-9) |
| 4-Bromophenyl phenyl ether (1-bromo-4-phenoxybenzene; CAS No. 101-55-3) |
| Butanol (including four structural isomers, one of which has two stereoisomers: n-butanol (butan-1-ol; CAS No. 71-36-3), sec-butanol (butan-2-ol; CAS No. 78-92-2 (for both stereoisomers)), isobutanol (2-methylpropan-1-ol; CAS No. 78-83-1), and tert-butanol (2-methylpropan-2-ol; CAS No. 75-65-0) |
| n-Butylbenzene (butyl benzene, 1-butylbenzene; CAS No. 104-51-8) |
| sec-Butylbenzene (butan-2-ylbenzene, (1-methylpropyl)benzene; CAS No. 135-98-8) |
| tert-Butylbenzene (1,1-dimethylethylbenzene; CAS No. 98-06-6) |
| Butyl benzyl phthalate (benzyl butyl benzene-1,2-dicarboxylic acid; CAS No. 85-68-7) |
| Cadmium (total) (CAS No. 7440-43-9) |
| Calcium (CAS No. 7440-70-2) |
| Carbofuran ((2,2-dimethyl-3H-1-benzofuran-7-yl) N-methylcarbamate, 2,2-dimethyl-2,3-dihydro-1-benzofuran-7-yl N-methylcarbamate; CAS No. 1563-66-2) |
| Carbon disulfide (methanedithione; CAS No. 75-15-0) |
| Carbon tetrachloride (tetrachloromethane; CAS No. 56-23-5) |
| Chemical oxygen demand (COD) |
| Chlordane (including two stereoisomers; 1,2,4,5,6,7,8,8-octachloro-3a,4,7,7a-tetrahydro-4,7-methanoindane; CAS No. 57-74-9) |
| Chloride (CAS No. 16887-00-6) |
| Chlorobenzene (CAS No. 108-90-7) |
| Chloroethane (CAS No. 75-00-3) |
| 2-Chloroethyl vinyl ether ((2-chloroethoxy)ethene; CAS No. 110-75-8) |
| Chloroform (trichloromethane; CAS No. 67-66-3) |
| Chloromethane (CAS No. 74-87-3) |
| 2-Chloronaphthalene (CAS No. 91-58-7) |
| 2-Chlorophenol (o-chlorophenol; CAS No. 95-57-8) |
| 4-Chlorophenyl phenyl ether (1-chloro-4-phenoxybenzene, p-chlorophenyl phenyl ether; CAS No. 7005-72-3) |
| o-Chlorotoluene (1-chloro-2-methylbenzene; CAS No. 95-49-8) |
| p-Chlorotoluene (1-chloro-4-methylbenzene; CAS No. 106-43-4) |
| Chromium (hexavalent) (CAS No. 18540-29-9) |
| Chromium (total) (CAS No. 7447-47-3) |
| Chrysene (1,2-benzophenanthrene, benzo(a)phenanthrene; CAS No. 218-01-9) |
| Cobalt (total) (CAS No. 7440-48-4) |
| Copper (total) (CAS No. 7440-50-8) |
| p-Cresol (4-methylphenol; CAS No. 106-44-5) |
| Cyanide (CAS No. 57-12-5) |
| 4,4-DDD (1-chloro-4-(2,2-dichloro-1-(4-chlorophenyl)ethylbenzene, p,p'-DDD, dichlorodiphenyldichloroethane; CAS No. 72-54-8) |
| 4,4-DDE (1-chloro-4-(2,2-dichloro-1-(4-chlorophenyl)­ethenyl)­benzene, p,p'-DDE, dichlorodiphenyldichloroethylene; CAS No. 72-55-9) |
| 4,4-DDT (1-chloro-4-(2,2,2-trichloro-1-(4-chlorophenyl)ethyl)benzene, p,p'-DDD; CAS No. 50-29-3) |
| Dibenzo(a,h)anthracene (dibenz(a,h)anthracene; CAS No. 53-70-3) |
| 1,2-Dibromo-3-chloropropane (CAS No. 96-12-8) |
| Dibromochloromethane (CAS No. 124-48-1) |
| Dibromomethane (methylenedibromide; CAS No. 74-95-3) |
| Di-n-butyl phthalate (dibutyl benzene-1,2-dicarboxylate; CAS No. 84-74-2) |
| m-Dichlorobenzene (1,3-dichlorobenzene; CAS No. 541-73-1) |
| o-Dichlorobenzene (1,2-dichlorobenzene; CAS No. 95-50-1) |
| p-Dichlorobenzene (1,4-dichlorobenzene; CAS No. 106-46-7) |
| 3,3'-Dichlorobenzidine (3,3'-dichloro(1,1'-biphenyl)-4,4'-diamine; CAS No. 91-94-1) |
| 1,4-Dichloro-2-butene (including two stereoisomers; CAS No. 764-41-0) |
| Dichlorodifluoromethane |
| 1,1-Dichloroethane (CAS No. 75-34-3) |
| 1,2-Dichloroethane (CAS No. 107-06-2) |
| 1,1-Dichloroethylene (1,1-dichloroethene; CAS No. 75-35-4) |
| cis-1,2-Dichloroethylene ((Z)-1,2-dichloroethene; CAS No. 156-59-2) |
| trans-1,2-Dichloroethylene ((E)-1,2-dichloroethene; CAS No. 156-60-5) |
| 2,4-Dichlorophenol (CAS No. 120-83-2) |
| 2,4-Dichlorophenoxyacetic acid (2,4-D; CAS No. 94-75-7) |
| 1,2-Dichloropropane (propylene dichloride; CAS No. 78-87-5) |
| 1,3-Dichloropropane (CAS No. 142-28-9) |
| 2,2-Dichloropropane (dichlorodimethylmethane; CAS No. 594-20-7) |
| 1,1-Dichloropropene (1,1-dichloroprop-1-ene; CAS No. 563-58-6) |
| 1,3-Dichloropropene (1,3-dichloroprop-1-ene; including two stereoisomers; CAS No. 542-75-6) |
| trans-1,3-Dichlorpropene ((E)-1,3-dichloroprop-1-ene; CAS No. 10061-02-6) |
| Dieldrin (1aR,2R,2aS,3S,6R,6aR,7S,7aS)-3,4,5,6,9,9-hexachloro-1a,2,2a,3,6,6a,7,7a-octahydro-2,7:3,6-dimethanonaphtho(2,3-b)oxirene; CAS No. 60-57-1) |
| Diethyl phthalate (diethyl benzene-1,2-dicarboxylate; CAS No. 84-66-2) |
| 2,4-Dimethylphenol (2,4-xylenol; CAS No. 105-67-9) |
| Dimethyl phthalate (dimethyl benzene-1,2-dicarboxylate; CAS No. 131-11-3) |
| 4,6-Dinitro-o-cresol (2-methyl-4,6-dinitrophenol; CAS No. 534-52-1) |
| 2,4-Dinitrophenol (CAS No. 51-28-5) |
| 2,4-Dinitrotoluene (1-methyl-2,4-dinitrobenzene; CAS No. 121-14-2) |
| 2,6-Dinitrotoluene (1-methyl-2,6-dinitrobenzene; CAS No. 573-56-8) |
| Di-n-octyl phthalate (dioctyl benzene-1,2-dicarboxylic acid; CAS No. 117-84-0) |
| Elevation leachate surface |
| Endosulfan I ((3α,5αβ,6α,9α,9αβ)-6,7,8,9,10,10-hexachloro-1,5,5a,6,9,9a-hexahydro-6,9-methano-2,4,3-benzodioxathiepin-3-oxide, α-endosulfan; CAS No. 959-98-8) |
| Endosulfan II ((3α,5aα,6β,9β,9aα)-6,7,8,9,10,10-hexachloro-1,5,5a,6,9,9a-hexahydro-6,9-methano-2,4,3-benzodioxathiepin-3-oxide, β-endosulfan; CAS No. 19670-15-6) |
| Endosulfan sulfate (6,7,8,9,10,10-hexachloro-1,5,5a,6,9,9a-hexahydro-6,9-methano-2,4,3-benzodioxathiepin-3,3-dioxide; CAS No. 1031-07-8) |
| Endrin ((1R,2S,2aS,3S,6R,7R,7aS)-3,4,5,6,9,9-hexachloro-1a,2,2a,3,6,6a,7,7a-octahydro-2,7:3,6-dimethanobaphtho(2,3-b)oxirene; CAS No. 72-20-8) |
| Endrin aldehyde ((1α,2β,2aβ,4aβ,5β,6aβ,6bβ,7R\*)-2,2a,3,3,4,7-hexachlorodecahydro-1,2,4-methenocyclopenta(cd)pentalene-5-carboxaldehyde; CAS No. 7421-93-4) |
| Ethyl acetate (ethyl ethanoate; CAS No. 141-78-6) |
| Ethylbenzene (CAS No. 100-41-4) |
| Ethylene dibromide (EDB) (1,2-dibromoethane; CAS No. 106-93-4) |
| Fluoranthene (benzo(jk)fluorene; 1,2-(1,8-naphthalenediyl)benzene; CAS No. 206-44-0) |
| Fluorene (9H-fluorene; CAS No. 86-73-7) |
| Fluoride (CAS No. 16984-48-8) |
| Heptachlor (1,4,5,6,7,8,8-heptachloro-3a,4,7,7a-tetrahydro-4,7-methano-1H-indene; CAS No. 76-44-8) |
| Heptachlor epoxide (1,4,5,6,7,8,8-heptachloro-2,3-eoixy-3a,4,7,7a-tetrahydro-4,7-methanoindan; CAS No. 1024-57-3) |
| Hexachlorobenzene (CAS No. 118-74-1) |
| Hexachlorobutadiene (1,1,2,3,4,4-hexachlorobuta-1,3-diene; CAS No. 87-68-3) |
| Hexachlorocyclopentadiene (1,2,3,4,5,5-hexachlorocyclopenta-1,3-diene; CAS No. 77-47-4) |
| Hexachloroethane (CAS No. 67-72-1) |
| 2-Hexanone (hexan-2-one, n-butyl methyl ketone; CAS No. 591-78-6) |
| Indeno(1,2,3-cd)pyrene (2,3-(o-phenylene)pyrene; CAS No. 193-39-5) |
| Iodomethane (CAS No. 74-88-4) |
| Iron (total) (CAS No. 7439-89-6) |
| Isopropylbenzene (cumene; (propan-2-yl)benzene; CAS No. 98-82-8) |
| p-Isopropyltoluene (1-methyl-4-(propan-2-yl)benzene, p-cymene; CAS No. 99-87-6) |
| Lead (total) (CAS No. 7439-92-1) |
| Leachate level from measuring point |
| Lindane ((1r,2R,3S,4r,5R,6S)-1,2,3,4,5,6-hexachlorocyclohexane, γ-hexachlorocyclohexane; CAS No. 58-89-9) |
| Magnesium (total) (CAS No. 7439-95-4) |
| Manganese (total) (CAS No. 7439-96-5) |
| Mercury (total) (CAS No. 7439-97-6) |
| Methoxychlor (1,1,1-trichloro-2,2-bis(4-methoxyphenyl)ethane; CAS No. 72-43-5) |
| Methyl chloride (chloromethane; CAS No. 74-87-3) |
| Methyl ethyl ketone (butan-2-one; CAS No. 78-93-3) |
| Methylene bromide (dibromomethane; CAS No. 74-95-3) |
| Methylene chloride (dichloromethane; CAS No. 75-09-2) |
| 4-Methylpentan-2-one (methyl isobutyl ketone; CAS No. 108-10-1) |
| Naphthalene (CAS No. 91-20-3) |
| Nickel (total) (CAS No. 7440-02-0) |
| Nitrate as nitrogen (CAS No. 14797-55-8) |
| Nitrobenzene (CAS No. 98-95-3) |
| o-Nitrophenol (2-nitrophenol; CAS No. 88-75-5) |
| p-Nitrophenol (4-nitrophenol; CAS No. 100-02-7) |
| N-Nitrosodimethylamine (N,N-dimethylnitrous amide; CAS No. 62-75-9) |
| N-Nitrosodiphenylamine (the IUPAC name N,N-diphenylnitrous amide; CAS No. 86-30-6) |
| N-Nitrosodipropylamine (dipropylnitrous amide, N-nitroso-N-propyl-1-propanamine; CAS No. 621-64-7) |
| Oil − hexane soluble (or equivalent) |
| Parathion (O,O-diethyl O-(4-nitrophenyl) phosphorothioate; CAS No. 56-38-2) |
| Pentachlorophenol (CAS No. 87-86-6) |
| pH |
| Phenanthrene (CAS No. 85-01-8) |
| Phenol (benzenol; CAS No. 108-95-2) |
| Phosphorous (CAS No. 7723-14-0) |
| Polychlorinated biphenyls (including several compounds with varied chlorination and their isomers; CAS No. 1336-36-3) |
| Potassium (CAS No. 7440-09-7) |
| 1-Propanol (n-propyl alcohol; CAS No. 71-23-8) |
| 2-Propanol (isopropyl alcohol; CAS No. 67-63-0) |
| n-Propylbenzene (propylbenzene, isocumene; CAS No. 103-65-1) |
| Pyrene (benzo(def)phenanthrene; CAS No. 129-00-0) |
| Selenium (CAS No. 7782-49-2) |
| Silver (total) (CAS No. 7440-22-4) |
| Specific conductance |
| Sodium (CAS No. 7440-23-5) |
| Styrene (ethenylbenzene; CAS No. 100-42-5) |
| Sulfate (CAS No. 14808-79-8) |
| Temperature of leachate sample (ºF) |
| Tetrachlorodibenzo-p-dixoins (2,3,7,8-tetrachlorodibenzo(be)(1,4)dioxine; CAS No. 1746-01-6) |
| 1,1,1,2-Tetrachloroethane (R-130a; CAS No. 630-20-6) |
| 1,1,2,2-Tetrachloroethane (R-130; CAS No. 79-34-5) |
| Tetrachloroethylene (tetrachloroethene; perchloroethylene; CAS No. 127-18-4) |
| Tetrahydrofuran (oxolane; 1,4-epoxybutane; CAS No. 109-99-9) |
| Thallium (CAS No. 7440-28-0) |
| Tin (CAS No. 7440-31-5) |
| Toluene (methylbenzene; CAS No. 108-88-3-23-8) |
| Total dissolved solids (TDS) |
| Total organic carbon (TOC) |
| Total suspended solids (TSS) |
| Toxaphene (including several compounds with varied chlorination and their isomers; chlorinated camphene; CAS No. 8001-35-2) |
| 2,4,5-TP ((2,4,5-trichlorophenoxy)propionic acid, Silvex, fenoprop; CAS No. 93-72-1)) |
| 1,2,3-Trichlorobenzene (CAS No. 87-61-6) |
| 1,2,4-Trichlorobenzene (CAS No. 120-82-1) |
| 1,1,1-Trichloroethane (methyl chloroform; CAS No. 71-55-6) |
| 1,1,2-Trichloroethane (vinyl trichloride; CAS No. 79-00-5) |
| Trichloroethylene (trichloroethene; CAS No. 79-01-6) |
| Trichlorofluoromethane (Freon 11; CAS No. 75-69-4) |
| 2,4,6-Trichlorophenol (CAS No. 88-06-2) |
| 1,2,3-Trichloropropane (CAS No. 96-18-4) |
| 1,2,4-Trimethylbenzene (hemellitene; CAS No. 526-73-8) |
| 1,3,5-Trimethylbenzene (mesitylene; CAS No. 108-67-8) |
| Vinyl acetate (ethenyl acetate; CAS No. 108-05-4) |
| Vinyl chloride (chloroethene; CAS No. 75-01-4) |
| m-Xylene (1,3-dimethylbenzene; CAS No. 108-38-3) |
| o-Xylene (1,2-dimethylbenzene; CAS No. 95-47-6) |
| p-Xylene (1,4-dimethylbenzene; CAS No. 106-428-3) |
| Xylenes (dimethylbenzene, xylol; mixed structural isomers; CAS No. 1330-20-7) |
| Zinc (total) (CAS No. 7440-66-6) |

Note: All parameters must be determined from unfiltered samples.

(Source: Amended at 44 Ill. Reg. 15577, effective September 3, 2020)