

Minnesota Attorney General: Administrative Rules Proceedings

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Pollution Control Agency

Adopted Permanent Rules Relating to Hazardous Waste; Corrective Action, Guarantees, Interim Status, Groundwater, and Lists

Rules as Adopted

7001.0640 ADDITIONAL PART B INFORMATION REQUIREMENTS FOR SURFACE IMPOUNDMENTS, WASTE PILES, LAND TREATMENT UNITS, AND LANDFILLS.

Subpart 1. **Groundwater protection.** The additional information designated in items A to G regarding protection of groundwater is required from owners or operators of hazardous waste surface impoundments, waste piles, land treatment units, and landfills, except as otherwise provided in part 7045.0484, subpart 1, item B, and must be submitted with Part B of the permit application. The following information is in addition to the information requirements of parts 7001.0560, 7001.0590, 7001.0600, 7001.0610, and 7001.0620:

A. to C. [Unchanged.]

D. A description of any plume of contamination that has entered the groundwater from a regulated unit at the time that the application is submitted that:

(1) [Unchanged.]

(2) identifies the concentration of each constituent listed in part 7045.0143 throughout the plume or identifies the maximum concentrations of each such constituent in the plume. The commissioner may require this information on additional constituents if waste managed at the facility has met the characteristic of toxicity as defined in part 7045.0131, subpart 6.

E. to G. [Unchanged.]

Subp. 2. **Corrective action program.** The owner or operator of a hazardous waste surface impoundment, waste pile, land treatment unit, or landfill shall submit to the commissioner with Part B of the permit application sufficient information, supporting data, and analyses to establish a corrective action

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program that meets the requirements of part 7045.0484, subpart 14. The submittal must demonstrate that corrective action is feasible if the groundwater protection standard is exceeded. To demonstrate compliance with part 7045.0484, subpart 14, the owner or operator shall address the following items:

A. to F. [Unchanged.]

The permit may contain a schedule for submittal of the information required in items C and D if the owner or operator obtains written authorization from the commissioner before submitting the complete permit application.

7045.0135 LISTS OF HAZARDOUS WASTES.

Subpart 1. to 3. [Unchanged.]

Subp. 4. **Discarded commercial chemical products, off-specification species, containers, and spill residues.** The following materials or items are hazardous wastes when they are discarded or intended to be discarded; when they are mixed with waste oil or used oil or other material and applied to the land for dust suppression or road treatment; or when, in lieu of their original use, they are produced for use as, or as a component of a fuel, distributed for use as a fuel, or burned as a fuel.

A. to D. [Unchanged.]

E. the commercial chemical products or manufacturing chemical intermediates, or off-specification commercial chemical products or manufacturing chemical intermediates referred to in items A to D and listed in subitems (1) to (17), are identified as acute hazardous wastes (H) and are subject to the small quantity exclusion defined in part 7045.0219, subpart 1, items B and C. The primary hazardous properties of these materials have been indicated by the letters T (toxicity), and R (reactivity). Absence of a letter indicates that the compound is listed only for acute toxicity. These wastes and their corresponding hazardous waste numbers, Chemical ~~abstracts~~ Abstract Service registry numbers, if ~~known~~ available, and hazard codes are listed in subitems (1) to (17).

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(1) Hazardous wastes from commercial chemical products beginning with the letter A:

(a) P023, 107-20-0, Acetaldehyde, chloro-;

(b) P002, 591-08-2, Acetamide, N-(aminothioxomethyl)-;

(c) P057, 640-19-7, Acetamide, 2-fluoro-;

(d) P058, 62-74-8, Acetic acid, fluoro-, sodium salt;

~~(e) P066, 16752-77-5, Acetimidic acid, N-[[methylcarbamoyl]oxy]-thio-, methyl ester;~~

~~(f)~~ P002, 591-08-2, 1-Acetyl-2-thiourea;

~~(g)~~ (f) P003, 107-02-8, Acrolein;

~~(h)~~ (g) P070, 116-06-3, Aldicarb;

~~(i)~~ (h) P004, 309-00-2, Aldrin;

~~(j)~~ (i) P005, 107-18-6, Allyl alcohol;

~~(k)~~ (j) P006, 20859-73-8, Aluminum phosphide: (R,T);

~~(l)~~ (k) P007, 2763-96-4, 5-(Aminomethyl)-3-isoxazolol;

~~(m)~~ (l) P008, 504-24-5, ~~4-alpha-Aminopyridine~~ 4-Aminopyridine;

~~(n)~~ (m) P009, 131-74-8, Ammonium picrate: (R);

~~(o)~~ (n) P119, 7803-55-6, Ammonium vanadate;

(o) P099, 506-61-6, Argentate(1-), bis(cyano-C)-, potassium;

(p) P010, 7778-39-4, Arsenic acid H_3AsO_4;

(q) P012, 1327-53-3, Arsenic oxide As_2O_3;

(r) P011, 1303-28-2, Arsenic oxide As_2O_5;

(s) P011, 1303-28-2, Arsenic pentoxide;

(t) P012, 1327-53-3, Arsenic trioxide;

(u) P038, 692-42-2, Arsine, diethyl-;

(v) P036, 696-28-6, Arsonous dichloride, phenyl-; and

(w) P054, 151-56-4, Aziridine; and

(x) P067, 75-55-8, Aziridine, 2-methyl-.

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(2) Hazardous wastes from commercial chemical products beginning with the letter B:

(a) P013, 542-62-1, Barium cyanide;

(b) P024, 106-47-8, Benzenamine, 4-chloro-;

(c) P077, 100-01-6, Benzenamine, 4-nitro-;

(d) P028, 100-44-7, Benzene, (chloromethyl)-;

(e) P042, 51-43-4, 1,2-Benzenediol, 4-[1-hydroxy-2-(methylamino)ethyl]-: (R);

(f) P046, 122-09-8, Benzeneethanamine, alpha, alpha-dimethyl-;

(g) P014, 108-98-5, Benzenethiol;

(h) P001, 81-81-2, 2H-1-Benzopyran-2-one, 4-hydroxy-3-(3-oxo-1-phenylbutyl)-, and salts, when present at concentrations greater than 0.3 percent;

(i) P028, 100-44-7, Benzyl chloride;

(j) P015, 7440-41-7, Beryllium ~~dust~~;

(k) ~~P016, 542-88-1, Bis(chloromethyl) ether;~~

~~(l)~~ P017, 598-31-2, Bromoacetone; ~~and~~

~~(m)~~ (l) P018, 357-57-3, Brucine; and

(m) P045, 39196-18-4, 2-Butanone, 3,3-dimethyl-1-(methylthio)-, O-[(methylamino)carbonyl]oxime.

(3) Hazardous wastes from commercial chemical products beginning with the letter C:

(a) P021, 592-01-8, Calcium cyanide;

(b) ~~P022, 75-15-0, Carbon disulfide~~ P021, 592-01-8, Calcium cyanide $Ca(CN)_2$;

(c) P022, 75-15-0, Carbon disulfide;

(d) P095, 75-44-5, Carbonic dichloride;

(e) P023, 107-20-0, Chloroacetaldehyde;

(f) P024, 106-47-8, p-Chloroaniline;

(g) P026, 5344-82-1, 1-(o-Chlorophenyl)thiourea;

(h) P027, 542-76-7, 3-Chloropropionitrile;

(i) P029, 544-92-3, Copper ~~cyanides~~ cyanide;

(j) P029, 544-92-3, Copper cyanide Cu(CN);

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~~(h)~~ (k) P030, ..., Cyanides (soluble cyanide salts), not otherwise specified;

~~(i)~~ (l) P031, 460-19-5, Cyanogen;

~~(j)~~ (m) P033, 506-77-4, Cyanogen chloride; and

(n) P033, 506-77-4, Cyanogen chloride (CN)Cl; and

~~(k)~~ (o) P034, 131-89-5, 2-Cyclohexyl-4,6-dinitrophenol.

(4) Hazardous wastes from commercial chemical products beginning with the letter D:

(a) P016, 542-88-1, Dichloromethyl ether;

(b) P036, 696-28-6, Dichlorophenylarsine;

~~(b)~~ (c) P037, 60-57-1, Dieldrin;

~~(c)~~ (d) P038, 692-42-2, Diethylarsine;

~~(d)~~ (e) P041, 311-45-5, Diethyl-p-nitrophenyl phosphate;

~~(e)~~ (f) P040, 297-97-2, O,O-Diethyl O-pyrazinyl phosphorothioate;

~~(f)~~ (g) P043, 55-91-4, Diisopropyl fluorophosphate ~~(DFP)~~ (DFP);

~~(g)~~ (h) P004, 309-00-2, 1,4:5,8-Dimethanonaphthalene, 1,2,3,4,10,10-hexachloro-1,4,4a,5,8,8a-hexahydro-, (1alpha, 4alpha, 4abeta, 5alpha, 8alpha, 8abeta)-;

~~(h)~~ (i) P060, 465-73-6, 1,4~~-~~, 5,8-Dimethanonaphthalene, 1,2,3,4,10,10-hexachloro-1,4,4a,5,8,8a-hexahydro-, (1alpha, 4alpha, 4abeta, 5beta, 8beta, 8abeta)-;

~~(i)~~ (j) P037, 60-57-1, 2,7:3,6-~~dimethanonaphth[2,3b]oxirane~~ Dimethanonaphth[2,3-b]oxirene, 3,4,5,6,9,9-hexachloro-1a,2,2a,3,6,6a,7,7a-octahydro-, (1aalpha, 2beta, 2aalpha, 3beta, 6beta, 6aalpha, 7beta, 7aalpha)-;

~~(j)~~ (k) P051, 72-20-8, 2,7:3,6-~~dimethanonaphth[2,3b]oxirane~~

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Dimethanonaphth[2,3-b]oxirene, 3,4,5,6,9,9-hexachloro-1a,2,2a, 3,6,6a,7,7a-octahydro-, (1aalpha, 2beta, 2abeta, 3alpha, 6alpha, 6abeta, 7beta, 7aalpha)-, and metabolites;

~~(k)~~ (l) P044, 60-51-5, Dimethoate;

~~(l) P045, 39196-18-4, 3,3-Dimethyl-1-(methylthio)-2-butanone, O-((methylamino)carbonyl)-oxime;~~

(m) P046, 122-09-8, alpha, alpha-Dimethylphenethylamine;

(n) P047, 534-52-1, 4,6-Dinitro-o-cresol and salts;

(o) P048, 51-28-5, 2,4-Dinitrophenol;

(p) P020, 88-85-7, Dinoseb;

(q) P085, 152-16-9, Diphosphoramide, octamethyl-;

(r) P111, 107-49-3, Diphosphoric acid, tetraethyl ester;

(s) P039, 298-04-4, Disulfoton; and

~~(s)~~ (t) P049, 541-53-7, ~~2,4~~ Dithiobiuret.

(5) Hazardous wastes from commercial chemical products beginning with the letter E:

(a) P050, 115-29-7, Endosulfan;

(b) P088, 145-73-3, ~~Endothal~~ Endothall;

(c) P051, 72-20-8, Endrin;

(d) P051, 72-20-8, Endrin, and metabolites;

(e) P042, 51-43-4, Epinephrine;

(f) P031, 460-19-5, Ethanedinitrile;

(g) P066, 16752-77-5, Ethanimidothioic acid, N-[[(methylamino)carbonyl]oxy]-, methyl ester;

~~(e)~~ (h) P101, 107-12-0, Ethyl cyanide; and

~~(f)~~ (i) P054, 151-56-4, Ethyleneimine.

(6) Hazardous wastes from commercial chemical products beginning with the letter F:

(a) P097, 52-85-7, Famphur;

(b) P056, 7782-41-4, Fluorine;

(c) P057, 640-19-7, Fluoroacetamide;

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(d) P058, 62-74-8, Fluoroacetic acid, sodium salt; and

(e) P065, 628-86-4, Fulminic acid, mercury(2+)salt: (R,T).

(7) Hazardous wastes from commercial chemical products beginning with the letter H:

(a) P059, 76-44-8, Heptachlor;

(b) P062, 757-58-4, Hexaethyl tetraphosphate;

(c) P116, 79-19-6, Hydrazinecarbothioamide;

(d) P068, 60-34-4, Hydrazine, methyl-;

(e) P063, 74-90-8, Hydrocyanic acid;

(f) P063, 74-90-8, Hydrogen cyanide; and

(g) P096, 7803-51-2, Hydrogen phosphide.

(8) Hazardous wastes from commercial chemical products beginning with the letter I:

~~(a) P064, 624-83-9, Isocyanic acid, methyl ester;~~

~~(b)~~ P060, 465-73-6, Isodrin; and

~~(c)~~ (b) P007, 2763-96-4, 3(2H)-Isoxazolone, 5-(aminomethyl)-.

(9) Hazardous wastes from commercial chemical products beginning with the letter M:

(a) P092, 62-38-4, Mercury, (acetato-O)phenyl-;

(b) P065, 628-86-4, Mercury fulminate: (R,T);

(c) P082, 62-75-9, ~~Methamine~~ Methanamine, N-methyl-N-nitroso-;

(d) P064, 624-83-9, Methane, isocyanato-;

(e) P016, 542-88-1, Methane, oxybis(chloro)-;

~~(e)~~ (f) P112, 509-14-8, Methane, tetranitro-: (R);

~~(f)~~ (g) P118, 75-70-7, Methanethiol, trichloro-;

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~~(g)~~ (h) P050, 115-29-7, 6,9-Methano-2,4,3-benzodioxathiepen, 6,7,8,9,10,10-hexachloro-1,5,5a,6,9,9a-hexahydro-, 3-oxide;

~~(h)~~ (i) P059, 76-44-8, 4,7-Methano-1H-indene, 1,4,5,6,7,8,8-heptachloro-3a,4,7,7a-tetrahydro-;

~~(i)~~ (j) P066, 16752-77-5, Methomyl;

~~(j) P067, 75-55-8, 2-Methylaziridine;~~

(k) P068, 60-34-4, Methyl hydrazine;

(l) P064, 624-83-9, Methyl isocyanate;

(m) P069, 75-86-5, 2-Methyllactonitrile; and

(n) P071, 298-00-0, Methyl parathion.

(10) Hazardous wastes from commercial chemical products beginning with the letter N:

(a) P072, 86-88-4, alpha-Naphthylthiourea;

(b) P073, 13463-39-3, Nickel carbonyl;

(c) P073, 13463-39-3, Nickel carbonyl $Ni(CO)_4$, (T-4)-;

(d) P074, 557-19-7, Nickel cyanide;

(e) P074, 557-19-7, Nickel cyanide $Ni(CN)_2$;

(f) P075, 54-11-5, Nicotine and salts;

~~(f)~~ (g) P076, 10102-43-9, Nitric oxide;

~~(g)~~ (h) P077, 100-01-6, p-Nitroaniline;

~~(h)~~ (i) P078, 10102-44-0, Nitrogen dioxide;

~~(i)~~ (j) P076, 10102-43-9, Nitrogen oxide NO;

~~(j)~~ (k) P078, 10102-44-0, Nitrogen oxide NO_2;

~~(k)~~ (l) P081, 55-63-0, Nirtoglycerine: (R);

~~(l)~~ (m) P082, 62-75-9, N-Nitrosodimethylamine; and

~~(m)~~ (n) P084, 4549-40-0, N-Nitrosomethylvinylamine.

(11) Hazardous wastes from commercial chemical products beginning with the letter O:

(a) P085, 152-16-9, Octamethylpyrophosphoramide;

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(b) P087, 20816-12-0, Osmium oxide OsO_4, (T-4)-;

(c) P087, 20816-12-0, Osmium tetroxide; and

(d) P088, 145-73-3, 7-Oxabicyclo[2.2.1]heptane-2,3-dicarboxylic acid.

(12) Hazardous wastes from commercial chemical products beginning with the letter P:

(a) P089, 56-38-2, Parathion;

(b) P034, 131-89-5, Phenol, 2-cyclohexyl-4,6-dinitro-;

(c) P048, 51-28-5, Phenol, 2,4-dinitro-;

(d) P047, 534-52-1, Phenol, 2-methyl-4,6-dinitro-, and salts;

(e) P020, 88-85-7, Phenol, 2-(1-methylpropyl)-4,6-dinitro-;

(f) P009, 131-74-8, Phenol, 2,4,6-trinitro-, ammonium salt: (R);

(g) P092, 62-38-4, Phenylmercury acetate;

(h) P093, 103-85-5, Phenylthiourea;

(i) P094, 298-02-2, Phorate;

(j) P095, 75-44-5, Phosgene;

(k) P096, 7803-51-2, Phosphine;

(l) P041, 311-45-5, Phosphoric acid, diethyl 4-nitrophenyl ester;

(m) P039, 298-04-4, Phosphorodithioic acid, 0,0-diethyl S-[2-(ethylthio)ethyl]ester;

(n) P094, 298-02-2, Phosphorodithioic acid, 0,0-diethyl S-[(ethylthio)methyl]ester;

(o) P044, 60-51-5, Phosphorodithioic acid, O,O-dimethyl S-[2-(methylamino)-2-oxoethyl]ester;

(p) P043, 55-91-4, ~~Phosphorofluoric~~ Phosphorofluoridic acid, bis(1-methylethyl) ester;

(q) P089, 56-38-2, Phosphorothioic acid, O,O-diethyl O-(4-nitrophenyl) ester;

(r) P040, 297-97-2, Phosphorothioic acid, O,O-diethyl O-pyrazinyl ester;

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(s) P097, 52-85-7, Phosphorothioic acid, O-[4-((dimethylamino)sulfonyl)phenyl]O,O-dimethyl ester;

(t) P071, 298-00-0, Phosphorothioic acid, O,O-dimethyl O-(4-nitrophenyl) ester;

(u) P110, 78-00-2, Plumbane, tetraethyl-;

(v) P098, 151-50-8, Potassium cyanide;

(w) P098, 151-50-8, Potassium cyanide K(CN);

(x) P099, 506-61-6, Potassium silver cyanide;

~~(x)~~ (y) P070, 116-06-3, Propanal, 2-methyl-2-(methylthio)-, O-[(methylamino)carbonyl]oxime;

~~(y)~~ (z) P101, 107-12-0, Propanenitrile;

~~(z)~~ (aa) P027, 542-76-7, Propanenitrile, 3-chloro-;

~~(aa)~~ (bb) P069, 75-86-5, Propanenitrile, 2-hydroxy-2-methyl-;

~~(bb)~~ (cc) P081, 55-63-0, 1,2,3-Propanetriol, trinitrate: (R);

~~(cc)~~ (dd) P017, 598-31-2, 2-Propanone, 1-bromo-;

~~(dd)~~ (ee) P102, 107-19-7, Propargyl alcohol;

~~(ee)~~ (ff) P003, 107-02-8, 2-Propenal;

~~(ff)~~ (gg) P005, 107-18-6, 2-Propen-1-ol;

~~(gg)~~ (hh) P067, 75-55-8, 1,2-Propylenimine;

~~(hh)~~ (ii) P102, ~~591-00-2~~ 107-19-7, 2-Propyn-1-ol;

~~(ii)~~ (jj) P008, 504-24-5, 4-Pyridinamine; and

~~(jj)~~ (kk) P075, 54-11-5, Pyridine, ~~(S)~~-3-(1-methyl-2-pyrrolidinyl)-, (S)-, and salts~~, and~~

~~(kk) P111, 107-49-3, Pyrophosphoric acid, tetraethyl ester.~~

(13) Hazardous wastes from commercial chemical products beginning with the letter S:

(a) P114, 12039-52-0, Selenious acid, dithalium(1+) salt;

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(b) P103, 630-10-4, Selenourea;

~~(b)~~ (c) P104, 506-64-9, Silver cyanide;

(d) P104, 506-64-9, Silver cyanide Ag(CN);

~~(c)~~ (e) P105, 26628-22-8, Sodium azide;

~~(d)~~ (f) P106, 143-33-9, Sodium cyanide;

(g) P106, 143-33-9, Sodium cyanide Na(CN);

~~(e)~~ (h) P107, 1314-96-1, Strontium sulfide;

(i) P107, 1314-96-1, Strontium sulfide SrS;

~~(f)~~ (j) P108, 57-24-9, Strychnidin-10-one, and salts;

~~(g)~~ (k) P018, 357-57-3, Strychnidin-10-one, 2,3-dimethoxy-;

~~(h)~~ (l) P108, 57-24-9, Strychnine and salts; and

~~(i)~~ (m) P115, ~~1003-59-1~~ 7446-18-6, Sulfuric acid, ~~thallium(I)~~ dithallium(I+) salt.

(14) Hazardous wastes from commercial chemical products beginning with the letter T:

(a) P109, 3689-24-5, Tetraethyldithiopyrophosphate;

(b) P110, 78-00-2, Tetraethyl lead;

(c) P111, 107-49-3, Tetraethyl pyrophosphate;

(d) P112, 509-14-8, Tetranitromethane: (R);

(e) P062, 757-58-4, Tetraphosphoric acid, hexaethyl ester;

(f) P113, 1314-32-5, Thallic oxide;

(g) P113, 1314-32-5, Thallium~~(III)~~ oxide Tl_2O_3;

(h) P114, 12039-52-0, Thallium(I) selenite;

(i) P115, ~~1003-59-1~~ 7446-18-6, Thallium(I) sulfate;

(j) P109, 3689-24-5, Thiodiphosphoric acid, tetraethyl ester;

(k) P045, 39196-18-4, Thiofanox;

(l) P049, 541-53-7, Thioimidodicarbonic

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diamide [$(H_2N)C(S)]_2NH$;

(m) P014, 108-98-5, Thiophenol;

(n) P116, 79-19-6, Thiosemicarbazide;

(o) P026, 5344-82-1, Thiourea, (2-chlorophenyl)-;

(p) P072, 86-88-4, Thiourea, 1-naphthalenyl-;

(q) P093, 103-85-5, Thiourea, phenyl-;

(r) P123, 8001-35-2, Toxaphene; and

(s) P118, 75-70-7, Trichloromethanethiol.

(15) Hazardous wastes from commercial chemical products beginning with the letter V:

(a) P119, 7803-55-6, Vanadic acid, ammonium salt;

(b) P120, 1314-62-1, Vanadium~~(V)~~ oxide V_2O_5; ~~and~~

(c) P120, 1314-62-1, Vanadium pentoxide; and

(d) P084, 4549-40-0, Vinylamine, N-methyl-N-nitroso-.

(16) Hazardous wastes from commercial chemical products beginning with the letter W: P001, 81-81-2, Warfarin, and salts, when present at concentrations greater than 0.3 percent.

(17) Hazardous wastes from commercial chemical products beginning with the letter Z:

(a) P121, 557-21-1, Zinc cyanide; and

(b) P121, 557-21-1, Zinc cyanide $Zn(CN)_2$; and

(c) P122, 1314-84-7, Zinc phosphide Zn_3P_2, when present at concentrations greater than ten percent: (R,T).

F. The commercial chemical products or manufacturing chemical intermediates, or off-specification commercial chemical products referred to in items A to D, and listed in subitems (1) to (24) are identified as toxic wastes (T) unless otherwise designated and are subject to the small quantity exclusion defined in part 7045.0219, subpart 1, item A. The primary

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hazardous properties of these materials have been indicated by the letters T (toxicity), R (reactivity), I (ignitability), and C (corrosivity). Absence of a letter indicates that the compound is listed only for toxicity. These wastes and their corresponding hazardous waste numbers, Chemical ~~abstracts~~ Abstract Service registry numbers, if ~~known~~ available, and hazard codes are listed as follows:

(1) Hazardous wastes from commercial chemical products beginning with the letter A:

(a) U001, 75-07-0, Acetaldehyde: (I);

(b) U034, 75-87-6, Acetaldehyde, trichloro-;

(c) U187, 62-44-2, Acetamide, N-(4-ethoxyphenyl)-;

(d) U005, 53-96-3, Acetamide, N-9H-fluoren-2-yl;

(e) U240, 94-75-7, Acetic acid, (2,4-dichlorophenoxy)-, salts and esters;

(f) U112, 141-78-6, Acetic acid, ethyl ester: (I);

~~(f)~~ (g) U144, 301-04-2, Acetic acid, lead (2+) salt;

~~(g)~~ (h) U214, 563-68-8, Acetic acid, thallium(1+) salt;

~~(h) U232~~ (i) see F027, 93-76-5, Acetic acid, (2,4,5-trichlorophenoxy)-;

~~(i)~~ (j) U002, 67-64-1, Acetone: (I);

~~(j)~~ (k) U003, 75-05-8, Acetonitrile: (I,T);

~~(k)~~ (l) U004, 98-86-2, Acetophenone;

~~(l)~~ (m) U005, 53-96-3, 2-Acetylaminofluorene;

~~(m)~~ (n) U006, 75-36-5, Acetyl chloride: (C,R,T);

~~(n)~~ (o) U007, 79-06-1, Acrylamide;

~~(o)~~ (p) U008, 79-10-7, Acrylic acid: (I);

~~(p)~~ (q) U009, 107-13-1, Acrylonitrile;

~~(q)~~ (r) U011, 61-82-5, Amitrole;

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~~(r)~~ (s) U012, 62-53-3, Aniline: (I,T);

(t) U136, 75-60-5, Arsinic acid, dimethyl-;

~~(s)~~ (u) U014, 492-80-8, Auramine;

~~(t)~~ (v) U015, 115-02-6, Azaserine; and

~~(u)~~ (w) U010, 50-07-7, Azirino(2',3':3,4)pyrrolo(1,2-a)indole-4,7-dione, 6-amino-8-[((aminocarbonyl) oxy)methyl]-1,1a,2,8,8a,8b-hexahydro-8a-methoxy-5-methyl-, [1aS-(1aalpha, 8beta, 8aalpha, 8balpha)]-.

(2) Hazardous wastes from commercial chemical products beginning with the letter B:

(a) U157, ~~50-49-5~~ 56-49-5, Benz[j]aceanthrylene, 1,2-dihydro-3-methyl-;

(b) U016, 225-51-4, ~~3,4-Benzacridine~~ Benz[c]acridine;

(c) U017, 98-87-3, Benzal chloride;

(d) U192, 23950-58-5, Benzamide, 3,5-dichloro-N-(1,1-diethyl-2-propynyl)-;

(e) U018, 56-55-3, Benz[a]anthracene;

(f) U094, 57-97-6, Benz[a]anthracene, 7,12-dimethyl-;

(g) U012, 62-53-3, Benzenamine: (I,T);

(h) U014, 492-80-8, Benzenamine, 4,4'-carbonimidoylbis (N,N-dimethyl)-;

(i) U049, 3165-93-3, Benzenamine, 4-chloro-2-methyl-, hydrochloride;

(j) U093, 60-11-7, Benzenamine, N,N-dimethyl-4-(phenylazo)-;

(k) U328, 95-53-4, Benzenamine, 2-methyl-;

(l) U353, 106-49-0, Benzenamine, 4-methyl-;

(m) U158, 101-14-4, Benzenamine, 4,4'-methylenebis(2-chloro)-;

(n) U222, 636-21-5, Benzenamine, 2-methyl-, hydrochloride;

(o) U181, 99-55-8, Benzenamine, 2-methyl-5-nitro-;

(p) U019, 71-43-2, Benzene: (I,T);

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(q) U038, 510-15-6, Benzeneacetic acid, 4-chloro-alpha-(4-chlorophenyl)-alpha-hydroxy, ethyl ester;

(r) U030, 101-55-3, Benzene, 1-bromo-4-phenoxy-;

(s) U035, 305-03-3, Benzenebutanoic acid, 4-[bis(2-chloroethyl)amino]-;

(t) U037, 108-90-7, Benzene, chloro-;

(u) U221, 25376-45-8, Benzenediamine, ar-methyl-;

(v) U028, 117-81-7, 1,2-Benzenedicarboxylic acid,bis(~~2-ethylhexy~~ 2-ethylhexyl) ester;

(w) U069, 84-74-2, 1,2-Benzenedicarboxylic acid, dibutyl ester;

(x) U088, 84-66-2, 1,2-Benzenedicarboxylic acid, diethyl ester;

(y) U102, 131-11-3, 1,2-Benzenedicarboxylic acid, dimethyl ester;

(z) U107, 117-84-0, 1,2-Benzenedicarboxylic acid, ~~di-n-octyl~~ dioctyl ester;

(aa) U070, 95-50-1, Benzene, 1,2-dichloro-;

(bb) U071, 541-73-1, Benzene, 1,3-dichloro-;

(cc) U072, 106-46-7, Benzene, 1,4-dichloro-;

(dd) U060, 72-54-8, Benzene, 1,1'-(2,2-dichloroethylidene)bis[4-chloro-;

(ee) U017, 98-87-3, Benzene, (dichloromethyl)-;

~~(ee)~~ (ff) U223, 26471-62-5, Benzene, 1,3-diisocyanatomethyl-: (R,T);

~~(ff)~~ (gg) U239, 1330-20-7, Benzene, dimethyl-: (I,T);

~~(gg)~~ (hh) U201, 108-46-3, 1,3-Benzenediol;

~~(hh)~~ (ii) U127, 118-74-1, Benzene, hexachloro-;

~~(ii)~~ (jj) U056, 110-82-7, Benzene, hexahydro-: (I);

~~(jj) U060, 72-54-8, Benzene,~~

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~~1,1'-(2,2-dichloroethylidene)bis(4-chloro)-,~~

(kk) U220, 108-88-3, Benzene, methyl-;

(ll) U105, 121-14-2, Benzene, 1-methyl-2,4-dinitro-;

(mm) U106, 606-20-2, Benzene, 2-methyl-1,3-dinitro-;

(nn) U055, 98-82-8, Benzene, (1-methylethyl)-: (I);

(oo) U169, 98-95-3, Benzene, nitro-: (I,T);

(pp) U183, 608-93-5, Benzene, pentachloro-;

(qq) U185, 82-68-8, Benzene, pentachloronitro-;

(rr) U020, 98-09-9, Benzenesulfonic acid chloride: (C,R);

(ss) U020, 98-09-9, Benzenesulfonyl chloride: (C,R);

(tt) U207, 95-94-3, Benzene, 1,2,4,5-tetrachloro-;

(uu) U061, 50-29-3, Benzene, 1,1'-(2,2,2-trichloroethylidene)bis[4-chloro]-;

(vv) U247, 72-43-5, Benzene, 1,1'-(2,2,2-trichloroethylidene)bis[4- methoxy]-;

(ww) U023, 98-07-7, Benzene, (trichloromethyl)- (C,R,T);

(xx) U234, 99-35-4, Benzene, 1,3,5-trinitro- (R,T);

(yy) U021, 92-87-5, Benzidine;

(zz) U202, 81-07-2, 1,2-Benzisothiazol-3(2H)-one, 1,1-dioxide and salts;

(aaa) U203, 94-59-7, 1,3-Benzodioxole, 5-(2-propenyl)-;

(bbb) U141, 120-58-1, 1,3-Benzodioxole, 5-(1-propenyl)-;

(ccc) U090, 94-58-6, 1,3-Benzodioxole, 5-propyl-;

(ddd) U064, 189-55-9, Benzo[rst]pentaphene;

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(eee) U248, 81-81-2, 2H-1-Benzopyran-2-one,4-hydroxy-3-(3-oxo-1-phenyl-butyl)-, and salts, when present at concentrations of 0.3 percent or less;

(fff) U022, 50-32-8, Benzo[a]pyrene;

~~(fff)~~ (ggg) U197, 106-51-4, p-Benzoquinone;

~~(ggg)~~ (hhh) U023, 98-07-7, Benzotrichloride: (C,R,T);

~~(hhh)~~ (iii) U085, 1464-53-5, 2,2'-Bioxirane~~; (I,T)~~;

~~(iii)~~ (jjj) U021, 92-87-5, (1,1'-Biphenyl)-4,4'-diamine;

~~(jjj)~~ (kkk) U073, 91-94-1, (1,1'-Biphenyl)-4,4'-diamine, 3,3'-dichloro-;

~~(kkk)~~ (lll) U091, 119-90-4, (1,1'-Biphenyl)-4,4'-diamine, 3,3'-dimethoxy-;

~~(lll)~~ (mmm) U095, 119-93-7, (1,1'-Biphenyl)-4,4'-diamine, 3,3'-dimethyl-;

~~(mmm) U027, 39638-32-9, Bis(2-chloroisopropyl)-ether;~~

~~(nnn) U024, 111-91-1, Bis(2-chloromethoxy) ethane;~~

~~(ooo) U028, 117-81-7, Bis(2-ethylhexyl) phthalate;~~

~~(ppp)~~ (nnn) U225, 75-25-2, Bromoform;

~~(qqq)~~ (ooo) U030, 101-55-3, 4-Bromophenyl phenyl ether;

~~(rrr)~~ (ppp) U128, 87-68-3, 1,3-Butadiene, 1,1,2,3,4,4-hexachloro-;

~~(sss)~~ (qqq) U172, 924-16-3, 1-Butanamine, N-butyl-N-nitroso-;

~~(ttt)~~ (rrr) U031, 71-36-3, 1-Butanol: (I);

~~(uuu)~~ (sss) U159, 78-93-3, 2-Butanone: (I,T);

~~(vvv)~~ (ttt) U160, 1338-23-4, 2-Butanone peroxide: (R,T);

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~~(www)~~ (uuu) U053, 4170-30-3, 2-Butenal;

~~(xxx)~~ (vvv) U074, 764-41-0, 2-Butene, 1,4-dichloro-: (I,T);

~~(yyy)~~ (www) U143, 303-34-4, 2-Butenoic acid, 2-methyl-, 7-[(2,3-dihydroxy-2-(1-methoxyethyl)-3-methyl-1-oxobutoxy) methyl]-2,3,5,7a-tetrahydro-1H-pyrrolizin-1-yl ester, [1S-[1alpha(Z),7(2S,3R), 7aalpha]]-; and

~~(zzz)~~ (xxx) U031, 71-36-3, n-Butyl alcohol: (I).

(3) Hazardous wastes from commercial chemical compounds beginning with the letter C:

(a) U136, 75-60-5, Cacodylic acid;

(b) U032, 13765-19-0, Calcium chromate;

(c) U238, 51-79-6, Carbamic acid, ethyl ester;

(d) U178, 615-53-2, Carbamic acid, methylnitroso-, ethyl ester;

(e) U097, 79-44-7, Carbamic chloride, dimethyl-;

(f) U114, 111-54-6, Carbamodithioic acid, 1,2-ethanediylbis-, salts and esters;

(g) U062, 2303-16-4, Carbamothioic acid, bis(1-methylethyl)-, S-(2,3-dichloro-2-propenyl) ester;

(h) U215, 6533-73-9, Carbonic acid, dithallium (1+) salt;

(i) U033, 353-50-4, Carbonic difluoride;

(j) U156, 79-22-1, Carbonochloridic acid, methyl ester: (I,T);

(k) U033, 353-50-4, Carbon oxyfluoride: (R,T);

(l) U211, 56-23-5, Carbon tetrachloride;

(m) U034, 75-87-6, Chloral;

(n) U035, 305-03-3, Chlorambucil;

(o) U036, ~~12789-03-6~~ 57-74-9, Chlordane, alpha and gamma isomers;

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(p) U026, 494-03-1, ~~Chlornaphazine~~ Chlornaphazin;

(q) U037, 108-90-7, Chlorobenzene;

(r) U038, 510-15-6, Chlorobenzilate;

(s) U039, 59-50-7, p-Chloro-m-cresol;

~~(s) U041, 106-89-8,~~

~~1-Chloro-2,3-epoxypropane;~~

(t) U042, 110-75-8, 2-Chloroethyl vinyl ether;

(u) U044, 67-66-3, Chloroform;

(v) U046, 107-30-2, Chloromethyl methyl ether;

(w) U047, 91-58-7, beta-Chloronaphthalene;

(x) U048, 95-57-8, o-Chlorophenol;

(y) U049, 3165-93-3, 4-Chloro-o-toluidine, hydrochloride;

(z) U032, 13765-19-0, Chromic acid H_2CrO_4, calcium salt;

(aa) U050, 218-01-9, Chrysene;

(bb) U051, ~~8021-39-4~~ ....., Creosote;

(cc) U052, 1319-77-3, ~~Cresols~~ Cresol (Cresylic acid);

(dd) U053, 4170-30-3, Crotonaldehyde;

(ee) U055, 98-82-8, Cumene: (I);

(ff) U246, 506-68-3, Cyanogen bromide (CN)Br;

(gg) U197, 106-51-4, 2,5-Cyclohexadiene-1,4-dione;

(hh) U056, 110-82-7, Cyclohexane: (I);

(ii) U129, 58-89-9, Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1alpha, 2alpha, 3beta, 4alpha, 5alpha, 6beta)-;

(jj) U057, 108-94-1, Cyclohexanone: (I);

~~(jj)~~ (kk) U130, 77-47-4, 1,3-Cyclopentadiene, 1,2,3,4,5,5-hexachloro-; and.

~~(kk)~~ (ll) U058, 50-18-0, Cyclophosphamide.

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(4) Hazardous wastes from commercial chemical products beginning with the letter D:

(a) U240, 94-75-7, 2,4-D, salts and esters;

(b) U059, 20830-81-3, Daunomycin;

(c) U060, 72-54-8, DDD;

(d) U061, 50-29-3, DDT;

(e) U062, 2303-16-4, Diallate;

(f) U063, 53-70-3, Dibenz[a,h]anthracene;

(g) U064, 189-55-9, Dibenzo[a,i]pyrene;

(h) U066, 96-12-8, 1,2-Dibromo-3-chloropropane;

(i) U069, 84-74-2, Dibutyl phthalate;

(j) U070, 95-50-1, o-Dichlorobenzene;

(k) U071, 541-73-1, m-Dichlorobenzene;

(l) U072, 106-46-7, p-Dichlorobenzene;

(m) U073, 91-94-1, 3,3'-Dichlorobenzidine;

(n) U074, 764-41-0, 1,4-Dichloro-2-butene: (I,T);

(o) U075, 75-71-8, Dichlorodifluoromethane;

(p) U078, 75-35-4, 1,1-Dichloroethylene;

(q) U079, 156-60-5, 1,2-Dichloroethylene;

(r) U025, ~~111-44-1~~ 111-44-4, Dichloroethyl ether;

(s) U027, 108-60-1, Dichloroisopropyl ether;

(t) U024, 111-91-1, Dichloromethoxy ethane;

(u) U081, 120-83-2, 2,4-Dichlorophenol;

~~(t)~~ (v) U082, 87-65-0, 2,6-Dichlorophenol;

~~(u) U240, 94-75-7, 2,4-Dichlorophenoxyacetic acid, salts and esters;~~

~~(v) U083, 78-87-5, 1,2-Dichloropropane;~~

(w) U084, 542-75-6, 1,3-Dichloropropene;

(x) U085, 1464-53-5, 1,2:3,4-Diepoxybutane: (I,T);

(y) U108, 123-91-1, 1,4-Diethyleneoxide;

(z) U028, 117-81-7, Diethylhexyl phthalate;

(aa) U086, 1615-80-1, N,N'-Diethylhydrazine;

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~~(aa)~~ (bb) U087, 3288-58-2, O,O-Diethyl S-methyl dithiophosphate;

~~(bb)~~ (cc) U088, 84-66-2, Diethyl phthalate;

~~(cc)~~ (dd) U089, 56-53-1, ~~Diethylstilbestrol~~ Diethylstilbesterol;

~~(dd)~~ (ee) U090, 94-58-6, Dihydrosafrole;

~~(ee)~~ (ff) U091, 119-90-4, 3,3'-Dimethoxybenzidine;

~~(ff)~~ (gg) U092, 124-40-3, Dimethylamine: (I);

~~(gg)~~ (hh) U093, 60-11-7, p-Dimethylaminoazobenzene;

~~(hh)~~ (ii) U094, 57-97-6, 7,12-Dimethylbenz[a]anthracene;

~~(ii)~~ (jj) U095, 119-93-7, 3,3'-Dimethylbenzidine;

~~(jj)~~ (kk) U096, 80-15-9, alpha,alpha-Dimethylbenzylhydroperoxide: (R);

~~(kk)~~ (ll) U097, 79-44-7, Dimethylcarbamoyl chloride;

~~(ll)~~ (mm) U098, 57-14-7, 1,1-Dimethylhydrazine;

~~(mm)~~ (nn) U099, 540-73-8, 1,2-Dimethylhydrazine;

~~(nn)~~ (oo) U101, 105-67-9, 2,4-Dimethylphenol;

~~(oo)~~ (pp) U102, 131-11-3, Dimethyl phthalate;

~~(pp)~~ (qq) U103, 77-78-1, Dimethyl sulfate;

~~(qq)~~ (rr) U105, 121-14-2, 2,4-Dinitrotoluene;

~~(rr)~~ (ss) U106, 606-20-2, 2,6-Dinitrotoluene;

~~(ss)~~ (tt) U107, 117-84-0, Di-n-octyl phthalate;

~~(tt)~~ (uu) U108, 123-91-1, 1,4-Dioxane;

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~~(uu)~~ (vv) U109, 122-66-7, 1,2-Diphenylhydrazine;

~~(vv)~~ (ww) U110, 142-84-7, Dipropylamine: (I); and

~~(ww)~~ (xx) U111, 621-64-7, Di-n-propylnitrosamine.

(5) Hazardous wastes from commercial chemical products beginning with the letter E:

(a) U041, 106-89-8, Epichlorohydrin;

(b) U001, 75-07-0, Ethanal: (I);

~~(b)~~ (c) U174, 55-18-5, Ethanamine, N-ethyl-N-nitroso-;

~~(c)~~ (d) U155, 91-80-5, 1,2-Ethanediamine, N,N-dimethyl-N'-2-pyridinyl-N'-(2-thienylmethyl)-;

~~(d)~~ (e) U067, 106-93-4, Ethane, 1,2-dibromo-;

~~(e)~~ (f) U076, 75-34-3, Ethane, 1,1-dichloro-;

~~(f)~~ (g) U077, 107-06-2, Ethane, 1,2-dichloro-;

~~(g)~~ (h) U131, 67-72-1, Ethane, hexachloro-;

~~(h)~~ (i) U024, 111-91-1, Ethane, 1,1'-[methylenebis(oxy)]bis[2-chloro~~]~~-;

~~(i)~~ (j) U117, 60-29-7, Ethane, 1,1'-oxybis-: (I);

~~(j)~~ (k) U025, 111-44-4, Ethane, 1,1'-oxybis[2-chloro~~]~~-;

~~(k)~~ (l) U184, 76-01-7, Ethane, pentachloro-;

~~(l)~~ (m) U208, 630-20-6, Ethane, 1,1,1,2-tetrachloro-;

~~(m)~~ (n) U209, 79-34-5, Ethane, 1,1,2,2-tetrachloro-;

~~(n)~~ (o) U218, 62-55-5, Ethanethioamide;

(p) U226, 71-55-6, Ethane, 1,1,1-trichloro-;

~~(o)~~ (q) U227, ~~110-80-5, Ethanol,~~ ~~2~~-ethoxy- 79-00-5, Ethane, 1,1,2-trichloro-;

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~~(p)~~ (r) U359, ~~79-00-5, Ethane,~~ ~~1,1,2-trichloro-~~ 110-80-5, Ethanol, 2-ethoxy-;

~~(q)~~ (s) U173, 1116-54-7, Ethanol, 2,2'-(nitrosoimino)bis-;

~~(r)~~ (t) U004, 98-86-2, Ethanone, 1-phenyl-;

~~(s)~~ (u) U043, 75-01-4, Ethene, chloro-;

~~(t)~~ (v) U042, 110-75-8, Ethene, (2-chloroethoxy)-;

~~(u)~~ (w) U078, 75-35-4, Ethene, 1,1-dichloro-;

~~(v)~~ (x) U079, 156-60-5, Ethene, 1,2-dichloro-,(E)-;

~~(w)~~ (y) U210, 127-18-4, Ethene, tetrachloro-;

~~(x)~~ (z) U228, 79-01-6, Ethene, trichloro-;

~~(y)~~ (aa) U112, 141-78-6, Ethyl acetate: (I);

~~(z)~~ (bb) U113, 140-88-5, Ethyl acrylate: (I);

~~(aa)~~ (cc) U238, 51-79-6, Ethyl carbamate (urethane);

~~(bb) U038, 510-15-6, Ethyl 4,4'-dichlorobenzilate;~~

(dd) U117, 60-29-7, Ethyl ether: (I);

~~(cc)~~ (ee) U114, 111-54-6, Ethylenebisdithiocarbamic acid, salts and esters;

~~(dd)~~ (ff) U067, 106-93-4, Ethylene dibromide;

~~(ee)~~ (gg) U077, 107-06-2, Ethylene dichloride;

~~(ff)~~ (hh) U359, 110-80-5, Ethylene glycol monoethyl ether;

~~(gg)~~ (ii) U115, 75-21-8, Ethylene oxide: (I,T);

~~(hh)~~ (jj) U116, 96-45-7, Ethylene thiourea;

~~(ii) U117, 60-29-7, Ethyl ether.--(I);~~

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~~(jjj)~~ (kk) U076, 75-34-3, Ethylidene dichloride;

~~(kk)~~ (ll) U118, 97-63-2, Ethyl methacrylate; and

~~(lll)~~ (mm) U119, 62-50-0, Ethylmethanesulfonate.

(6) Hazardous wastes from commercial chemical products beginning with the letter F:

(a) U120, 206-44-0, Fluoranthene;

(b) U122, 50-00-0, Formaldehyde;

(c) U123, 64-18-6, Formic acid: (C,T);

(d) U124, 110-00-9, Furan: (I);

(e) U125, 98-01-1, 2-Furancarboxaldehyde: (I);

(f) U147, 108-31-6, 2,5-Furandione;

(g) U213, 109-99-9, Furan, tetrahydro-: (I);

(h) U125, 98-01-1, Furfural: (I); and

(i) U124, 110-00-9, Furfuran: (I).

(7) Hazardous wastes from commercial chemical products beginning with the letter G:

(a) U206, 18883-66-4, Ð-Glucopyranose, 2-deoxy-2(3-methyl-3-nitrosoureido)-, D-;

(b) U206, 18883-66-4, D-Glucose, 2-deoxy-2-[[(methylnitrosoamino)-carbonyl]amino]-;

(c) U126, 765-34-4, Glycidylaldehyde; and

~~(c)~~ (d) U163, 70-25-7, Guanidine, N-methyl-N'-nitro-N-nitroso-.

(8) Hazardous wastes from commercial chemical products beginning with the letter H:

(a) U127, 118-74-1, Hexachlorobenzene;

(b) U128, 87-68-3, Hexachlorobutadiene;

(c) ~~U129, 58-89-9, Hexachlorocyclohexane (gamma-isomer);~~

~~(d)~~ U130, 77-47-4, Hexachlorocyclopentadiene;

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~~(e)~~ (d) U131, 67-72-1, Hexachloroethane;

~~(f)~~ (e) U132, 70-30-4, Hexachlorophene;

~~(g)~~ (f) U243, 1888-71-7, Hexachloropropene;

~~(h)~~ (g) U133, 302-01-2, Hydrazine: (R,T);

~~(i)~~ (h) U086, 1615-80-1, Hydrazine, 1,2-diethyl-;

~~(j)~~ (i) U098, 57-14-7, Hydrazine, 1,1-dimethyl-;

~~(k)~~ (j) U099, 540-73-8, Hydrazine, 1,2-dimethyl-;

~~(l)~~ (k) U109, 122-66-7, Hydrazine, 1,2-diphenyl-;

~~(m)~~ (l) U134, 7664-39-3, Hydrofluoric acid: (C,T);

~~(n)~~ (m) U134, 7664-39-3, Hydrogen fluoride: (C,T);

~~(o)~~ (n) U135, 7783-06-4, Hydrogen sulfide;

(o) U135, 7783-06-4, Hydrogen sulfide H_2S; and

(p) U096, 80-15-9, Hydroperoxide, 1-methyl-1-phenylethyl-: (R)~~,~~ ~~and~~

~~(q) U136, 75-60-5, Hydroxydimethylarsine oxide.~~

(9) Hazardous wastes from commercial chemical products beginning with the letter I:

(a) U116, 96-45-7, 2-Imidazolidinethione;

(b) U137, 193-39-5, Indeno[1,2,3cd]pyrene;

(c) U139, 9004-66-4, Iron dextran;

(d) U190, 85-44-9, 1,3-Isobenzofurandione;

(e) U140, 78-83-1, Isobutyl alcohol: (I,T); and

(f) U141, 120-58-1, Isosafrole.

(10) Hazardous wastes from commercial chemical products beginning with the letter K: U142, 143-50-0, Kepone.

(11) Hazardous wastes from commercial chemical products beginning with the letter L:

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(a) U143, 303-34-4, Lasiocarpine;

(b) U144, 301-04-2, Lead acetate;

(c) U146, 1335-32-6, Lead, bis(acetato-O)tetrahydoxytri-;

(d) U145, 7446-27-7, Lead phosphate;

(e) U146, 1335-32-6, Lead subacetate; and

(f) U129, 58-89-9, Lindane.

(12) Hazardous wastes from commercial chemical products beginning with the letter M:

(a) U163, 70-25-7, MNNG;

(b) U147, 108-31-6, Maleic anhydride;

~~(b)~~ (c) U148, 123-33-1, Maleic hydrazide;

~~(c)~~ (d) U149, 109-77-3, Malononitrile;

~~(d)~~ (e) U150, 148-82-3, Melphalan;

~~(e)~~ (f) U151, 7439-97-6, Mercury;

~~(f)~~ (g) U152, 126-98-7, Methacrylonitrile: (I,T);

~~(g)~~ (h) U092, 124-40-3, Methanamine, N-methyl-: (I);

~~(h)~~ (i) U029, 74-83-9, Methane, bromo-;

~~(i)~~ (j) U045, 74-87-3, Methane, chloro-: (I,T);

~~(j)~~ (k) U046, 107-30-2, Methane, chloromethoxy-;

~~(k)~~ (l) U068, 74-95-3, Methane, dibromo-;

~~(l)~~ (m) U080, 75-09-2, Methane, dichloro-;

~~(m)~~ (n) U075, 75-71-8, Methane, dichlorodifluoro-;

~~(n)~~ (o) U138, 74-88-4, Methane, iodo-;

~~(o)~~ (p) U119, 62-50-0, Methanesulfonic acid, ethyl ester;

~~(p)~~ (q) U211, 56-23-5, Methane, tetrachloro-;

~~(q)~~ (r) U153, 74-93-1, Methanethiol: (I,T);

~~(r)~~ (s) U225, 75-25-2, Methane, tribromo-;

~~(s)~~ (t) U044, 67-66-3, Methane, trichloro-;

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~~(t)~~ (u) U121, 75-69-4, Methane, trichlorofluoro-;

~~(u) U123, 64-18-6, Methanoic acid: (C, T);~~

(v) U036, 57-74-9, 4,7-Methano-1H-indene, 1,2,4,5,6,7,8,8-octachloro-2,3,3a,4,7,7a-hexahydro-;

(w) U154, 67-56-1, Methanol: (I);

~~(w)~~ (x) U155, 91-80-5, Methapyrilene;

~~(x)~~ (y) U142, 143-50-0, 1,3,4-Metheno-2H-cyclobuta[cd]pentalen-2-one,1,1a,3,3a,4,5,5,5a,5b, 6-decachlorooctahydro-;

~~(y)~~ (z) U247, 72-43-5, Methoxychlor;

~~(z)~~ (aa) U154, 67-56-1, Methyl alcohol: (I);

~~(aa)~~ (bb) U029, 74-83-9, Methyl bromide;

~~(bb)~~ (cc) U186, 504-60-9, 1-Methylbutadiene: (I);

~~(cc)~~ (dd) U045, 74-87-3, Methyl chloride: (I,T);

~~(dd)~~ (ee) U156, 79-22-1, Methyl chlorocarbonate: (I,T);

~~(ee)~~ (ff) U226, 71-55-6, Methyl chloroform;

~~(ff)~~ (gg) U157, 56-49-5, 3-Methylcholanthrene;

~~(gg)~~ (hh) U158, 101-14-4, 4,4'-Methylenebis (2-chloroaniline);

~~(hh)~~ (ii) U068, 74-95-3, Methylene bromide;

~~(ii)~~ (jj) U080, 75-09-2, Methylene chloride;

~~(jj)~~ (kk) U159, 78-93-3, Methyl ethyl ketone (MEK): (I,T);

~~(kk)~~ (ll) U160, 1338-23-4, Methyl ethyl ketone peroxide: (R,T);

~~(ll)~~ (mm) U138, 74-88-4, Methyl iodide;

~~(mm)~~ (nn) U161, 108-10-1, Methyl isobutyl ketone: (I);

~~(nn)~~ (oo) U162, 80-62-6, Methyl methacrylate: (I,T);

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~~(oo) U163, 70-25-7, N-Methyl-N'-nitro-N-nitrosoguanidine;~~

(pp) U161, 108-10-1, 4-Methyl-2-pentanone: (I);

(qq) U164, 56-04-2, Methylthiouracil; and

(rr) U010, 50-07-7, Mitomycin C.

(13) Hazardous wastes from commercial chemical compounds beginning with the letter N:

(a) U059, 20830-81-3, 5,12-Naphthacenedione, ~~(8S-cis)~~-8-acetyl-10-[(3-amino-2,3,6-trideoxy)-alpha-L-lyxo-hexopyranosyl)oxy]-7,8,9,10-tetrahydro-6,8,11-trihydroxy-1-methoxy-, (8S-cis)-;

(b) U167, 134-32-7, 1-Naphthalenamine;

(c) U168, 91-59-8, 2-Naphthalenamine;

(d) U026, 494-03-1, Naphthalenamine,N,N'-bis(2-chloroethyl)-;

(e) U165, 91-20-3, Naphthalene;

~~(c)~~ (f) U047, 91-58-7, Naphthalene, 2-chloro-;

~~(d)~~ (g) U166, 130-15-4, 1,4-Naphthalenedione;

~~(e)~~ (h) U236, 72-57-1, 2,7-Naphthalenedisulfonic acid, 3,3'-[(3,3'-dimethyl(1,1'-biphenyl)-4,4'-diyl)bis (azo)bis(5-amino-4-hydroxy)-,tetrasodium salt;

~~(f)~~ (i) U166, 130-15-4, 1,4-Naphthoquinone;

~~(g)~~ (j) U167, 134-32-7, alpha-Naphthylamine;

~~(h)~~ (k) U168, 91-59-8, beta-Naphthylamine;

~~(i) U026, 494-03-1, 2-Naphthylamine, N,N'-bis(2-chloromethyl)-,~~

~~(j) U167, 134-32-7, 1-Napthylenamine;~~

~~(k) U168, 91-59-8, 2-Naphthylenamine;~~

(l) U217, 10102-45-1, Nitric acid, ~~thellium(I)~~ thallium(I+) salt;

(m) U169, 98-95-3, Nitrobenzene: (I,T);

(n) U170, 100-02-7, p-Nitrophenol;

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(o) U171, 79-46-9, 2-Nitropropane: (I,T);

(p) U172, 924-16-3, N-Nitrosodi-n-butylamine;

(q) U173, 1116-54-7, N-Nitrosodiethanolamine;

(r) U174, 55-18-5, N-Nitrosodiethylamine;

(s) U176, 759-73-9, N-Nitroso-N-ethylurea;

(t) U177, 684-93-5, N-Nitroso-N-methylurea;

(u) U178, 615-53-2, N-Nitroso-N-methylurethane;

(v) U179, 100-75-4, N-Nitrosopiperidine;

(w) U180, 930-55-2, N-Nitrosopyrrolidine; and

(x) U181, 99-55-8, 5-Nitro-o-toluidine.

(14) Hazardous wastes from commercial chemical products beginning with the letter O:

(a) U193, 1120-71-4, 1,2-Oxathiolane, 2,2-dioxide;

(b) U058, 50-18-0, 2H-1,3,2-Oxazaphosphorin-2-amine,N,N-bis (2-chloroethyl)tetrahydro-, 2-oxide;

(c) U115, 75-21-8, Oxirane: (I,T);

(d) U126, 765-34-4, Oxiranecarboxyaldehyde; and

(e) U041, 106-89-8, Oxirane, (chloromethyl)-.

(15) Hazardous wastes from commercial chemical products beginning with the letter P:

(a) U182, 123-63-7, Paraldehyde;

(b) U183, 608-93-5, Pentachlorobenzene;

(c) U184, 76-01-7, Pentachloroethane;

(d) U185, 82-68-8, Pentachloronitrobenzene (PCNB);

(e) ~~U242~~ see F027, 87-86-5, Pentachlorophenol;

(f) U161, 108-10-1, Pentanol, 4-methyl-;

(g) U186, 504-60-9, 1,3-Pentadiene: (I);

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~~(g)~~ (h) U187, 62-44-2, Phenacetin;

~~(h)~~ (i) U188, 108-95-2, Phenol;

~~(i)~~ (j) U048, 95-57-8, Phenol, 2-chloro-;

~~(j)~~ (k) U039, 59-50-7, Phenol, 4-chloro-3-methyl-;

~~(k)~~ (l) U081, 120-83-2, Phenol, 2,4-dichloro-;

~~(l)~~ (m) U082, 87-65-0, Phenol, 2,6-dichloro-;

~~(m)~~ (n) U089, 56-53-1, Phenol, 4,4'-(1,2-diethyl-1,2-ethenediyl)bis-,(E)-;

~~(n)~~ (o) U101, 105-67-9, Phenol, 2,4-dimethyl-;

~~(o)~~ (p) U052, 1319-77-3, Phenol, methyl-;

~~(p)~~ (q) U132, 70-30-4, Phenol,2,2'-methylenebis[3,4,6-trichloro~~]~~-;

~~(q)~~ (r) U170, 100-02-7, Phenol, 4-nitro-;

~~(r)-U242~~ (s) see F027, 87-86-5, Phenol, pentachloro-;

~~(s)-U212~~ (t) see F027, 58-90-2, Phenol, 2,3,4,6-tetrachloro-;

~~(t)-U230,-95-94-4~~ (u) see F027, 95-95-4, Phenol, 2,4,5-trichloro-;

~~(u)-U231~~ (v) see F027, 88-06-2, Phenol, 2,4,6-trichloro-;

~~(v)~~ (w) U150, 148-82-3, L-Phenylalanine, 4-[bis(2-chloroethyl)amino]-;

~~(w)~~ (x) U145, 7446-27-7, Phosphoric acid, lead(2+) salt(2:3);

~~(x)~~ (y) U087, 3288-58-2, Phosphorodithioic acid, O,O-diethyl~~,~~ S-methyl ester;

~~(y)~~ (z) U189, ~~108-95-2~~ 1314-80-3, ~~Phosphorous~~ Phosphorus sulfide: (R);

~~(z)~~ (aa) U190, 85-44-9, Phthalic anhydride;

~~(aa)~~ (bb) U191, 109-06-8, 2-Picoline;

~~(bb)~~ (cc) U179, 100-75-4, ~~Piperdine~~

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Piperidine, 1-nitroso-;

~~(cc)~~ (dd) U192, 23950-58-5, Pronamide;

~~(dd)~~ (ee) U194, 107-10-8, 1-Propanamine: (I,T);

~~(ee)~~ (ff) U111, 621-64-7, 1-Propanamine,N-nitroso-N-propyl-;

~~(ff)~~ (gg) U110, 142-84-7, 1-Propanamine, N-propyl-: (I);

~~(gg)~~ (hh) U066, 96-12-8, Propane, 1,2-dibromo-3-chloro-;

(ii) U083, 78-87-5, Propane, 1,2-dichloro-;

~~(hh)~~ (jj) U149, 109-77-3, Propanedinitrile;

~~(ii)~~ (kk) U171, 79-46-9, Propane, 2-nitro-: (I,T);

~~(jj)~~ (ll) U027, ~~39638-32-9~~ 108-60-1, Propane, 2,2'- oxybis[2-chloro~~]~~-;

~~(kk)~~ (mm) U193, 1120-71-4, 1,3-Propane sultone;

(nn) see F027, 93-72-1, Propanoic acid, 2-(2,4,5-trichlorophenoxy)-;

~~(ll)~~ (oo) U235, 126-72-7, 1-Propanol, 2,3-dibromo-, phosphate (3:1);

~~(mm)~~ (pp) U140, 78-83-1, 1-Propanol, 2-methyl-: (I,T);

~~(nn)~~ (qq) U002, 67-64-1, 2-Propanone: (I);

(rr) U007, 79-06-1, 2-Propenamide;

~~(oo)~~ (ss) U084, 542-75-6, ~~1-Propane~~ 1-Propene, 1,3-dichloro-;

~~(pp) U152, 126-98-7, 2-Propanenitrile, 2-methyl- (I, T);~~

~~(qq) U007, 79-06-1, 2-Propenamide;~~

~~(rr)~~ (tt) U243, 1888-71-7, 1-Propene, 1,1,2,3,3,3-hexachloro-;

~~(ss)~~ (uu) U009, 107-13-1, 2-Propenenitrile;

(vv) U152, 126-98-7, 2-Propenenitrile,2-methyl-: (I,T);

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~~(tt)~~ (ww) U008, 79-10-7, 2-Propenoic acid: (I);

~~(uu)~~ (xx) U113, 140-88-5, 2-Propenoic acid, ethyl ester: (I);

~~(vv)~~ (yy) U118, 97-63-2, 2-Propenoic acid, 2-methyl-, ethyl ester;

~~(ww)~~ (zz) U162, ~~80-66-2~~ 80-62-6, 2-Propenoic acid, 2-methyl-, methyl ester,: (I,T);

~~(xx) U233, 93-72-1, Propionic acid, 2-(2,4,5-trichlorophenoxy)-,~~

~~(yy)~~ (aaa) U194, 107-10-8, n-Propylamine: (I,T);

~~(zz)~~ (bbb) U083, 78-87-5, Propylene dichloride;

~~(aaa)~~ (ccc) U148, 123-33-1, 3,6-Pyridazinedione, 1,2-dihydro-;

~~(bbb)~~ (ddd) U196, 110-86-1, Pyridine;

~~(ccc)~~ (eee) U191, 109-06-8, Pyridine, 2-methyl-;

~~(ddd)~~ (fff) U237, 66-75-1, 2,4-(1H,3H)-Pyrimidinedione, 5-[bis(2-chloroethyl)amino]-;

~~(eee)~~ (ggg) U164, 56-04-2, 4(1H)-Pyrimidinone, 2,3-dihydro-6-methyl-2-thioxo-; and

~~(fff)~~ (hhh) U180, 930-55-2, Pyrrolidine, 1-nitroso-.

(16) Hazardous wastes from commercial chemical products beginning with the letter R:

(a) U200, 50-55-5, Reserpine; and

(b) U201, 108-46-3, Resorcinol.

(17) Hazardous wastes from commercial chemical products beginning with the letter S:

(a) U202, 81-07-2, Saccharin and salts;

(b) U203, 94-59-7, Safrole;

(c) U204, 7783-00-8, Selenious acid;

(d) U204, 7783-00-8, Selenium dioxide;

(e) U205, 7488-56-4, Selenium sulfide;

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(f) U205, ~~7446-34-6~~ 7488-56-4, Selenium sulfide SeS_2: (R,T);

~~(f)~~ (g) U015, 115-02-6, L-Serine, diazoacetate (ester);

~~(g) U233~~ (h) see F027, 93-72-1, Silvex (2,4,5-TP);

~~(h)~~ (i) U206, 18883-66-4, Streptozotocin;

~~(i)~~ (j) U103, 77-78-1, Sulfuric acid, dimethyl ester; and

~~(j)~~ (k) U189, 1314-80-3, Sulfur phosphide: (R).

(18) Hazardous wastes from commercial chemical products beginning with the letter T:

(a) ~~U232~~ see F027, 93-76-5, 2,4,5-T;

(b) U207, 95-94-3, 1,2,4,5-Tetrachlorobenzene;

(c) U208, 630-20-6, 1,1,1,2-Tetrachloroethane;

(d) U209, 79-34-5, 1,1,2,2-Tetrachloroethane;

(e) U210, 127-18-4, Tetrachloroethylene;

(f) ~~U212~~ see F027, 58-90-2, 2,3,4,6-Tetrachlorophenol;

(g) U213, 109-99-9, Tetrahydrofuran: (I);

(h) U214, ~~15049-14-8~~ 563-68-8, Thallium(I) acetate;

(i) U215, 6533-73-9, Thallium(I) carbonate;

(j) U216, 7791-12-0, Thallium(I) chloride;

(k) U216, 7791-12-0, Thallium chloride Tlcl;

(l) U217, 10102-45-1, Thallium(I) nitrate;

~~(l)~~ (m) U218, 62-55-5, Thioacetamide;

~~(m)~~ (n) U153, 74-93-1, Thiomethanol: (I,T);

~~(n)~~ (o) U244, 137-26-8, Thioperoxydicarbonic diamide, tetramethyl-;

~~(o)~~ (p) U219, 62-56-6, Thiourea;

~~(p)~~ (q) U244, 137-26-8, ~~Thiuram~~ Thiram;

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~~(q)~~ (r) U220, 108-88-3, Toluene;

~~(r)~~ (s) U221, 25376-45-8, Toluenediamine;

~~(s)~~ (t) U223, 26471-62-5, Toluene diisocyanate: (R,T);

~~(t)~~ (u) U328, 95-53-4, o-Toluidine;

~~(u)~~ (v) U353, 106-49-0, p-Toluidine;

~~(v)~~ (w) U222, 636-21-5, o-Toluidine hydrochloride;

~~(w)~~ (x) U011, 61-82-5, 1H-1,2,4-Triazol-3-amine;

~~(x) U226, 71-55-6, 1,1,1-Trichloroethane;~~

(y) U227, 79-00-5, 1,1,2-Trichloroethane;

(z) U228, 79-01-6, Trichloroethylene;

(aa) U121, 75-69-4, Trichloromonofluoromethane;

(bb) ~~U230~~ see F027, 95-95-4, 2,4,5-Trichlorophenol;

(cc) ~~U231~~ see F027, 88-06-2, 2,4,6-Trichlorophenol;

(dd) U234, 99-35-4, sym 1,3,5-Trinitrobenzene: (R,T);

(ee) U182, 123-63-7, 1,3,5-Trioxane, 2,4,6-trimethyl-;

(ff) U235, 126-72-7, Tris (2,3-dibromopropyl) phosphate; and

(gg) U236, 72-57-1, Trypan blue.

(19) Hazardous wastes from commercial chemical products beginning with the letter U:

(a) U237, 66-75-1, Uracil mustard;

(b) U176, 759-73-9, Urea, N-ethyl-N-nitroso-; and

(c) U177, 684-93-5, Urea, N-methyl-N-nitroso-.

(20) Hazardous wastes from commercial chemical products beginning with the letter V: U043, 75-01-4, Vinyl chloride.

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(21) Hazardous wastes from commercial chemical products beginning with the letter W: U248, 81-81-2, Warfarin, and salts, when present at concentrations of 0.3 percent or less.

(22) Hazardous wastes from commercial chemical products beginning with the letter X: U239, 1330-20-7, Xylene: (I).

(23) Hazardous wastes from commercial chemical products beginning with the letter Y: U200, 50-55-5, Yohimban-16-carboxylic acid, 11, 17-dimethoxy-18-[(3,4,5-trimethoxybenzoyl)oxy]-, methyl ester, (3beta, 16beta, 17alpha, 18beta, 20alpha)-.

(24) Hazardous wastes from commercial chemical products beginning with the letter Z: U249, 1314-84-7, Zinc phosphide Zn_3P_2, when present at concentrations of 10 percent or less.

Subp. 5. [Unchanged.]

7045.0141 HAZARDOUS CONSTITUENTS.

Subpart 1. **Scope.** Hazardous constituents and their corresponding Chemical ~~abstracts~~ Abstract Service registry numbers and hazardous waste numbers, if ~~known~~ available, are listed in subparts 2 to 22.

Subp. 2. **"A" constituents.** Hazardous constituents beginning with the letter A are as follows:

A. Acetonitrile, 75-05-8, U003;

B. Acetophenone, 98-86-2, U004;

C. ~~2-Acetylaminofluorene~~ 2-Acetylaminefluarone, 53-96-3, U005;

D. Acetyl chloride, 75-36-5, U006;

E. 1-Acetyl-2-thiourea, 591-08-2, P002;

F. Acrolein, 107-02-8, P003;

G. Acrylamide, 79-06-1, U007;

H. Acrylonitrile, 107-13-1, U009;

I. Aflatoxins, 1402-68-2, ...;

J. Aldicarb, 116-06-3, P070;

K. Aldrin, 309-00-2, P004;

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L. Allyl alcohol, 107-18-6, P005;

~~M. Allyl chloride, 107-05-1;~~

~~N.~~ Aluminum phosphide, 20859-73-8, P006;

~~O.~~ N. 4-Aminobiphenyl, 92-67-1, ...;

~~P.~~ O. 5-(Aminomethyl)-3-isoxazolol, 2763-96-4, P007;

~~Q.~~ P. 4-Aminopyridine, 504-24-5, P008;

~~R.~~ Q. Amitrole, 61-82-5, U011;

~~S.~~ R. Ammonium vanadate, 7803-55-6, P119;

~~T.~~ S. Aniline, 62-53-3, U012;

T. Antimony, 7440-36-0, ...;

U. Antimony and compounds, not otherwise specified in this list, ~~7440-36-0~~ ....., ...;

V. Aramite, 140-57-8, ...;

W. Arsenic, 7440-38-2, ...;

X. Arsenic and compounds, not otherwise specified in this list, ~~7440-38-2~~ ....., ...;

~~X.~~ Y. Arsenic acid, 7778-39-4, P010;

~~Y.~~ Z. Arsenic pentoxide, 1303-28-2, P011;

~~Z.~~ AA. Arsenic trioxide, 1327-53-3, P012;

~~AA.~~ BB. Auramine, 492-80-8, P014; and

~~BB.~~ CC. Azaserine, 115-02-6, U015.

Subp. 3. "B" constituents. Hazardous constituents beginning with the letter B are as follows:

A. Barium, 7440-39-3, ...;

B. Barium and compounds, not otherwise specified in this list, ~~7440-39-3~~ ....., ...;

~~B.~~ C. Barium cyanide, 542-62-1, P013;

~~C.~~ D. Benz[c]acridine, 225-51-4, U016;

~~D.~~ E. Benz[a]anthracene, 56-55-3, U018;

~~E.~~ F. Benzal chloride, 98-87-3, U017;

~~F.~~ G. Benzene, 71-43-2, U019;

~~G.~~ H. Benzenearsonic acid, 98-05-5, ...;

~~H.~~ I. Benzidine, 92-87-5, U021;

~~I.~~ J. Benzo[b]fluoranthene, 205-99-2, ...;

~~J.~~ K. Benzo[j]fluoranthene, 205-82-3, ...;

~~K.~~ L. Benzo[a]pyrene, 50-32-8, U022;

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~~L.~~ M. p-Benzoquinone, 106-51-4, U197;

~~M.~~ N. Benzotrichloride, 98-07-7, U023;

~~N.~~ O. Benzyl chloride, 100-44-7, P028;

P. Beryllium, 7440-41-7, P015;

~~O.~~ Q. Beryllium and compounds, not otherwise specified in this list, ~~7440-41-7~~ ....., ...;

~~P.--Bis(2-chloromethoxy)ethane, 111-91-1;~~

~~Q.--Bis(2-chloroethyl)-ether, 111-44-4;~~

~~R.--Bis(2-chloroisopropyl)-ether, 39638-32-9;~~

~~S.--Bis(chloromethyl)-ether, 542-88-1;~~

~~T.--Bis(2-ethylhexyl)-phthalate, 117-81-7;~~

~~U.~~ R. Bromoacetone, 598-31-2, P017;

~~V.~~ S. Bromoform, 75-25-2, U225;

~~W.~~ T. 4-Bromophenyl phenyl ether, 101-55-3, U030;

~~X.~~ U. Brucine, 357-57-3, P018; and

~~Y.~~ V. Butyl benzyl phthalate, 85-68-7, ...

Subp. 4. "C" constituents. Hazardous constituents beginning with the letter C are as follows:

A. Cacodylic acid, 75-60-5, U136;

B. Cadmium, 7440-43-9, ...;

C. Cadmium and compounds, not otherwise specified in this list, ~~7440-43-9~~ ....., ...;

~~C.~~ D. Calcium chromate, 13765-19-0, U032;

~~D.~~ E. Calcium cyanide, 592-01-8, P021;

~~E.~~ F. Carbon disulfide, 75-15-0, P022;

~~F.~~ G. Carbon oxyfluoride, 353-50-4, U033;

~~G.~~ H. Carbon tetrachloride, 56-23-5, U211;

~~H.~~ I. Chloral, 75-87-6, U034;

~~I.~~ J. Chlorambucil, 305-03-3, U035;

K. Chlordane, 57-74-9, U036;

~~J.~~ L. Chlordane (alpha and gamma isomers), ~~57-74-9~~ ....., U036;

~~K.~~ M. Chlorinated benzenes, not otherwise specified in this list, ..., ...;

~~L.~~ N. Chlorinated ethane, not otherwise specified in this list, ..., ...;

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M~~.~~ O. Chlorinated fluorocarbons, not otherwise specified in this list, ..., ...;

N~~.~~ P. Chlorinated naphthalene, not otherwise specified in this list, ..., ...;

O~~.~~ Q. Chlorinated phenol, not otherwise specified in this list, ..., ...;

P~~.~~--Chlornaphazine R. Chlornaphazin, 494-03-1, U026;

Q~~.~~ S. Chloroacetaldehyde, 107-20-0, P023;

R~~.~~ T. Chloroalkyl ethers, not otherwise specified in this list, ..., ...;

S~~.~~ U. p-Chloroaniline, 106-47-8, P024;

T~~.~~ V. Chlorobenzene, 108-90-7, U037;

U~~.~~ W. Chlorobenzilate, 510-15-6, U038;

V~~.~~ X. p-Chloro-m-cresol, 59-50-7, U039;

W~~.~~--1-Chloro-2,3-epoxypropane, 106-89-8,

X~~.~~ Y. 2-Chloroethyl vinyl ether, 110-75-8, U042;

Y~~.~~ Z. Chloroform, 67-66-3, U044;

Z~~.~~ AA. Chloromethyl methyl ether, 107-30-2, U046;

AA~~.~~ BB. beta-Chloronaphthalene, 91-58-7, U047;

BB~~.~~ CC. o-Chlorophenol, 95-57-8, U048;

CC~~.~~ DD. 1-(o-Chlorophenyl)thiourea, 5344-82-1, P026;

DD~~.~~ EE. Chloroprene, 126-99-8, ...;

EE~~.~~ FF. 3-Chloropropionitrile, 542-76-7, P027;

GG. Chromium, 7440-47-3, ...;

FF~~.~~ HH. Chromium and compounds, not otherwise specified in this list, ~~7440-47-3~~ ....., ...;

GG~~.~~ II. Chrysene, 218-01-9, U050;

HH~~.~~ JJ. Citrus red No. 2, 6358-53-8, ...;

II~~.~~ KK. Coal ~~tars~~ tar creosote, ~~8005-45-2~~ 8007-45-2, ...;

JJ~~.~~ LL. Copper cyanide, 544-92-3, P029;

KK~~.~~ MM. Creosote, ~~8001-58-9~~ ....., U051;

LL~~.~~--Cresols NN. Cresol (Cresylic acid), 1319-77-3, U052;

MM~~.~~ OO. Crotonaldehyde, 4170-30-3, U053;

NN~~.~~ PP. Cyanides (soluble salts and complexes), not

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otherwise specified in this list, ..., P030;

~~OO.~~ QQ. Cyanogen, 460-19-5, P031;

~~PP.~~ RR. Cyanogen bromide, 506-68-3, U246;

~~QQ.~~ SS. Cyanogen chloride, 506-77-4, P033;

~~RR.~~ TT. Cycasin, 14901-08-7, ...;

~~SS.~~ UU. 2-Cyclohexyl-4,6-dinitrophenol, 131-89-5, P034; and

~~TT.~~ VV. Cyclophosphamide, 50-18-0, U058.

Subp. 5. "D" constituents. Hazardous constituents beginning with the letter D are as follows:

A. 2,4-D, 94-75-7, U240;

B. 2,4-D, salts and esters, ~~94-75-7~~ ....., U240;

~~B.~~ C. Daunomycin, 20830-81-3, U059;

~~C.~~ D. DDD, 72-54-8, U060;

~~D.~~ E. DDE, 72-55-9, ...;

~~E.~~ F. DDT, 50-29-3, U061;

~~F.~~ G. Diallate, 2303-16-4, U062;

~~G.~~ H. Dibenz[a,h]acridine, 226-36-8, ...;

~~H.~~ I. Dibenz[a,j]acridine, 224-42-0, ...;

~~I.~~ J. Dibenz[a,h]anthracene, 53-70-3, U063;

~~J.~~ K. 7H-Dibenzo[c,g]carbazole, 194-59-2, ...;

~~K.~~ L. Dibenzo[a,e]pyrene, 192-65-4, ...;

~~L.~~ M. Dibenzo[a,h]pyrene, 189-64-0, ...;

~~M.~~ N. Dibenzo[a,i]pyrene, 189-55-9, U064;

~~N.~~ O. 1,2-Dibromo-3-chloropropane, 96-12-8, U066;

~~O.~~ P. Dibutylphthalate, 84-74-2, U069;

~~P.~~ Q. o-Dichlorobenzene, 95-50-1, U070;

~~Q.~~ R. m-Dichlorobenzene, 541-73-1, U071;

~~R.~~ S. p-Dichlorobenzene, 106-46-7, U072;

~~S.~~ T. Dichlorobenzene, not otherwise specified in this list, 25321-22-6, ...;

~~T.~~ U. 3,3'-Dichlorobenzidine, 91-94-1, U073;

~~U.~~ V. 1,4-Dichloro-2-butene, 764-41-0, U074;

~~V.~~ W. Dichlorodifluoromethane, 75-71-8, U075;

~~W.--1,2-Dichloroethylene, 156-60-5;~~

X. Dichloroethylene, not otherwise specified in this

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list, 25323-30-2, ...;

Y. 1,1-Dichloroethylene, 75-35-4, U078;

Z. ~~2,4-Dichlorophenol, 120-83-2~~ 1,2-Dichloroethylene, 156-60-5, U079;

AA. Dichloroethyl ether, 111-44-4, U025;

BB. Dichloroisopropyl ether, 108-60-1, U027;

CC. Dichloromethoxy ethane, 111-91-1, U024;

DD. Dichloromethyl ether, 542-88-1, P016;

EE. 2,4-Dichlorophenol, 120-83-2, U081;

FF. 2,6-Dichlorophenol, 87-65-0, U082;

~~BB.~~ GG. Dichlorophenylarsine, 696-28-6, P036;

~~CC.~~ HH. Dichloropropane, not otherwise specified in this list, 26638-19-7, ...;

~~DD.~~ II. Dichloropropanol, not otherwise specified in this list, 26545-73-3, ...;

~~EE.~~ JJ. Dichloropropene, not otherwise specified in this list, 26952-23-8, ...;

~~FF.~~ KK. 1,3-Dichloropropene, 542-75-6, U084;

~~GG.~~ LL. Dieldrin, 60-57-1, P037;

~~HH.~~ MM. 1,2:3,4-Diepoxybutane, 1464-53-5, U085;

~~II.~~ NN. Diethylarsine, 692-42-2, P038;

~~JJ.~~ OO. 1,4-Diethyleneoxide, 123-91-1, U108;

PP. Diethylhexyl phthalate, 117-81-7, U028;

~~KK.~~ QQ. N,N'-Diethylhydrazine, 1615-80-1, U086;

~~LL.~~ RR. O,O-Diethyl S-methyl dithiophosphate, 3288-58-2, U087;

~~MM.~~ SS. Diethyl-p-nitrophenyl phosphate, 311-45-5, P041;

~~NN.~~ TT. Diethyl phthalate, 84-66-2, U088;

~~OO.~~ UU. O,O-Diethyl O-pyrazinyl phosphorothioate, 297-97-2, P040;

~~PP.~~ VV. Diethylstilbesterol, 56-53-1, U089;

~~QQ.~~ WW. Dihydrosafrole, 94-58-6, U090;

~~RR.--3,4-Dihydroxy-alpha-(methylamino)methyl-benzyl alcohol, 329-65-7,~~

~~SS.~~ XX. Diisopropylfluorophosphate (DFP), 55-91-4,

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P043;

~~TT.~~ YY. Dimethoate, 60-51-5, P044;

~~UU.~~ ZZ. 3,3'-Dimethoxybenzidine, 119-90-4, U091;

~~VV.~~ AAA. p-Dimethylaminoazobenzene, 60-11-7, U093;

~~WW.~~ BBB. 7,12-Dimethylbenz[a]anthracene, 57-97-6, U094;

~~XX.~~ CCC. 3,3'-Dimethylbenzidine, 119-93-7, U095;

~~YY.~~ DDD. Dimethylcarbamoyl chloride, 79-44-7, U097;

~~ZZ.~~ EEE. 1,1-Dimethylhydrazine, 57-14-7, U098;

~~AAA.~~ FFF. 1,2-Dimethylhydrazine, 540-73-8, U099;

~~BBB.~~ GGG. alpha, alpha-Dimethylphenethylamine, 122-09-8, P046;

~~CCC.~~ HHH. 2,4-Dimethylphenol, 105-67-9, U101;

~~DDD.~~ III. Dimethyl phthalate, 131-11-3, U102;

~~EEE.~~ JJJ. Dimethyl sulfate, 77-78-1, U103;

~~FFF.~~ KKK. Dinitrobenzene, not otherwise specified in this list, 25154-54-5, ...;

LLL. 4,6-Dinitro-o-cresol, 534-52-1, P047;

~~GGG.~~ MMM. 4,6-Dinitro-o-cresol and salts, ~~534-52-1~~ ....., P047;

~~HHH.~~ NNN. 2,4-Dinitrophenol, 51-28-5, P048;

~~III.~~ OOO. 2,4-Dinitrotoluene, 121-14-2, U105;

~~JJJ.~~ PPP. 2,6-Dinitro toluene, 606-20-2, U106;

~~KKK.~~ QQQ. Dinoseb, 88-85-7, P020;

~~LLL.~~ RRR. Di-n-octylphthalate, 117-84-0, U017;

~~MMM.~~ SSS. Diphenylamine, 122-39-4, ...;

~~NNN.~~ TTT. 1,2-Diphenylhydrazine, 122-66-7, U109;

~~OOO.~~ UUU. Di-n-propylnitrosamine, 621-64-7, U111;

~~PPP.~~ VVV. Disulfoton, 298-04-4, P039; and

~~QQQ.~~ WWW. Dithiobiuret, 541-53-7, P049.

Subp. 6. "E" constituents. Hazardous constituents beginning with the letter E are as follows:

A. Endosulfan, 115-29-7, P050;

B. ~~Endothal~~ Endothall, 145-73-3, P088;

C. Endrin, 72-20-8, P051;

D. Endrin metabolites, ..., P051;

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E. Epichlorohydrin, 106-89-8, U041;

F. Epinephrine, 51-43-4, P042;

G. Ethyl carbamate (urethane), 51-79-6, U238;

~~E.~~ H. Ethyl cyanide, 107-12-0, P101;

I. Ethylenebisdithiocarbamic acid, 111-54-6, U114;

~~F.~~ J. Ethylenebisdithiocarbamic acid, salts and esters, ~~111-54-6~~ ....., U114;

~~G.~~ K. Ethylene dibromide, 106-93-4, U067;

~~H.~~ L. Ethylene dichloride, 107-06-2, U077;

~~I.~~ M. Ethylene glycol monoethyl ether ~~(Ethanol, 2-ethoxy)~~, 110-80-5, U359;

~~J.~~ N. Ethyleneimine, 151-56-4, P054;

~~K.~~ O. Ethylene oxide, 75-21-8, U115;

~~L.~~ P. Ethylenethiourea, 96-45-7, U116;

~~M.~~ Q. Ethylidene dichloride, 75-34-3, U076;

~~N.~~ R. Ethyl methacrylate, 97-63-2, U118; and

~~O.~~ S. Ethyl methanesulfonate, 62-50-0, U119.

Subp. 7. **"F" constituents.** Hazardous constituents beginning with the letter F are as follows:

A. Famphur, 52-85-7, P097;

B. Fluoranthene, 206-44-0, U120;

C. Fluorine, 7782-41-4, P056;

D. Fluoroacetamide, 640-19-7, P057;

E. Fluoroacetic acid, sodium salt, 62-74-8, P058; and

F. Formaldehyde, 50-00-0, U122; and

G. Formic acid, 64-18-6, U123.

Subp. 8. **"G" constituents.** Hazardous constituents beginning with the letter G are as follows: Glycidylaldehyde, 765-34-4, U126.

Subp. 9. **"H" constituents.** Hazardous constituents beginning with the letter H are as follows:

A. ~~Halomethane~~ Halomethanes, not otherwise specified in this list, ..., ...;

B. Heptachlor, 76-44-8, P059;

C. Heptachlor epoxide, 1024-57-3, ...;

D. Heptachlor epoxide (alpha, beta, and gamma

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isomers), ~~1024-57-3~~ ....., ...;

~~D.~~ E. Hexachlorobenzene, 118-74-1, U127;

~~E.~~ F. Hexachlorobutadiene, 87-68-3, U128;

~~F.~~ G. Hexachlorocyclopentadiene, 77-47-4, U130;

~~G.~~ H. Hexachlorodibenzo-p-dioxins, ..., ...;

~~H.~~ I. Hexachlorodibenzofurans, ..., ...;

~~I.~~ J. Hexachloroethane, 67-72-1, U131;

~~J.~~ K. Hexachlorophene, 70-30-4, U132;

~~K.~~ L. Hexachloropropene, 1888-71-7, U243;

~~L.~~ M. Hexaethyltetraphosphate, 757-58-4, P062;

~~M.~~ N. Hydrazine, 302-01-2, U133;

~~N.~~ O. Hydrogen cyanide ~~(Hydrocyanic acid)~~, 74-90-8, P063;

~~O.~~ P. Hydrogen fluoride ~~(Hydrofluoric acid)~~, 7664-39-3, U134; and

~~P.~~ Q. Hydrogen sulfide, 7783-06-4, U135.

Subp. 10. **"I" constituents.** Hazardous constituents beginning with the letter I are as follows:

A. Indeno(1,2,3cd)pyrene, 193-39-5, U137;

B. Iron dextran, 9004-66-4, U139;

C. Isobutyl alcohol, 78-83-1, U140;

D. Isodrin, ~~.....~~ 465-73-6, P060; and

E. Isosafrole, 120-58-1, U141.

Subp. 11. **"K" constituents.** Hazardous constituents beginning with the letter K are as follows: Kepone, 143-50-0, U142.

Subp. 12. **"L" constituents.** Hazardous constituents beginning with the letter L are as follows:

A. Lasiocarpine, ~~303-34-4~~ 303-34-1, U143;

B. Lead, 7439-92-1, ...;

C. Lead and compounds, not otherwise specified in this list, ~~7439-92-1~~ ....., ...;

~~C.~~ D. Lead acetate, 301-04-2, U144;

~~D.~~ E. Lead phosphate, 7446-27-7, U145;

~~E.~~ F. Lead subacetate, 1[illegible]-32[illegible]6, U146; and

~~F.~~ G. Lindane, 58-89-9, U129.

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Subp. 13. **"M" constituents.** Hazardous constituents beginning with the letter M are as follows:

A. Maleic anhydride, 108-31-6, U147;

B. Maleic hydrazide, 123-33-1, U148;

C. Malononitrile, 109-77-3, U149;

D. Melphalan, 148-82-3, U150;

E. Mercury, 7439-97-6, U151;

F. Mercury compounds, not otherwise specified in this list, ..., ...;

G. Mercury fulminate, 628-86-4, P065;

~~F.--Mercury-and-compounds-not-otherwise-specified-in this-list,-7439-97-6,~~

~~G.~~ H. Methacrylonitrile, 126-98-7, U152;

~~H.~~ I. Methapyrilene, 91-80-5, U155;

~~I.~~ J. Methomyl, 16752-77-5, P066;

~~J.~~ K. Methoxychlor, 72-43-5, U247;

~~K.~~ L. Methyl bromide, 74-83-9, U029;

~~L.~~ M. Methyl chloride, 74-87-3, U045;

~~M.~~ N. Methyl chlorocarbonate, 79-22-1, U156;

~~N.~~ O. Methyl chloroform, 71-55-6, U226;

~~O.~~ P. 3-Methylcholanthrene, 56-49-5, U157;

~~P.~~ Q. 4,4'-Methylenebis(2-chloroaniline), 101-14-4, U158;

~~Q.~~ R. Methylene bromide, 74-95-3, U068;

~~R.~~ S. Methylene chloride, 75-09-2, U080;

~~S.~~ T. Methyl ethyl ketone (MEK), 78-93-3, U159;

~~T.~~ U. Methyl ethyl ketone peroxide, 1338-23-4, U160;

~~U.~~ V. Methyl hydrazine, 60-34-4, P068;

~~V.~~ W. Methyl iodide, 74-88-4, U138;

~~W.~~ X. Methyl isocyanate, 624-83-9, P064;

~~X.~~ Y. 2-Methyllactonitrile, 75-86-5, P069;

~~Y.~~ Z. Methyl methacrylate, 80-62-6, U162;

~~Z.~~ AA. Methyl methanesulfonate, 66-27-3, ...;

~~AA.~~ BB. Methyl parathion, 298-00-0, P071;

~~BB.~~ CC. Methylthiouracil, 56-04-2, U164;

~~CC.~~ DD. Mitomycin C, 50-07-7, U010;

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~~BB.~~ EE. MNNG, 70-25-7, U163; and

~~EE.~~ FF. Mustard gas, 505-60-2, ...

Subp. 14. "N" constituents. Hazardous constituents beginning with the letter N are as follows:

A. Naphthalene, 91-20-3, U165;

B. 1,4-Naphthoquinone, 130-15-4, U166;

C. alpha-Naphthylamine, 134-32-7, U167;

D. beta-Naphthylamine, 91-59-8, U168;

E. alpha-Naphthylthiourea, 86-88-4, P072;

F. Nickel, 7440-02-0, ...;

G. Nickel and compounds, not otherwise specified in this list, ~~7440-02-0~~ ....., ...;

~~G.~~ H. Nickel carbonyl, 13463-39-3, P073;

~~H.~~ I. Nickel cyanide, 557-19-7, P074;

J. Nicotine, 54-11-5, P075;

~~I.~~ K. Nicotine and salts, ~~54-11-5~~ ....., P075;

~~J.~~ L. Nitric oxide, 10102-43-9, P076;

~~K.~~ M. p-Nitroaniline, 100-01-6, P077;

~~L.~~ N. Nitrobenzene, 98-95-3, U169;

~~M.~~ O. Nitrogen dioxide, 10102-44-0, P078;

P. Nitrogen mustard, 51-75-2, ...;

~~N.~~ Q. Nitrogen mustard and, hydrochloride salt, ~~51-75-2~~ ....., ...;

R. Nitrogen mustard, N-oxide, 126-85-2, ...;

~~O.~~ S. Nitrogen mustard, N-oxide and, hydrochloride salt, ~~126-85-2~~ ....., ...;

~~P.~~ T. Nitroglycerin, 55-63-0, P081;

~~Q.~~ U. p-Nitrophenol, 100-02-7, U170;

~~R.~~ V. 2-Nitropropane ~~(Propane, 2-nitro)~~, 79-46-9, U171;

~~S. 4-Nitroquinoline-1-oxide, 56-57-5;~~

~~T. Nitrosamine~~ W. Nitrosamines, not otherwise specified in this list, 35576-91-1D, ...;

~~U.~~ X. N-Nitrosodi-n-butylamine, 924-16-3, U172;

~~V.~~ Y. N-Nitrosodiethanolamine, 1116-54-7, U173;

~~W.~~ Z. N-Nitrosodiethylamine, 55-18-5, U174;

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~~X.~~ AA. N-Nitrosodimethylamine, 62-75-9, P082;

~~Y.~~ BB. N-Nitroso-N-ethylurea, 759-73-9, U176;

~~Z.~~ CC. N-Nitrosomethylethylamine, 10595-95-6, ...;

~~AA.~~ DD. N-Nitroso-N-methylurea, 684-93-5, U177;

~~BB.~~ EE. N-Nitroso-N-methylurethane, 615-53-2, U178;

~~CC.~~ FF. N-Nitrosomethylvinylamine, 4549-40-0, P084;

~~DD.~~ GG. N-Nitrosomorpholine, 59-89-2, ...;

~~EE.~~ HH. N-Nitrosonornicotine, 16543-55-8, ...;

~~FF.~~ II. N-Nitrosopiperidine, 100-75-4, U179;

~~GG.~~ JJ. N-Nitrosopyrrolidine, 930-55-2, U180;

~~HH.~~ KK. N-Nitrososarcosine, 13256-22-9, ...; and

~~II.~~ LL. 5-Nitro-o-toluidine, 99-55-8, U181.

Subp. 15. **"O" constituents.** Hazardous constituents beginning with the letter O are as follows:

A. Octamethylpyrophosphoramide, 152-16-9, P085; and

B. Osmium tetroxide, 20816-12-0, P087.

Subp. 16. **"P" constituents.** Hazardous constituents beginning with the letter P are as follows:

A. Paraldehyde, 123-63-7, U182;

B. Parathion, 56-38-2, P089;

C. Pentachlorobenzene, 608-93-5, U183;

D. Pentachlorodibenzo-p-dioxins, ..., ...;

E. Pentachlorodibenzofurans, ..., ...;

F. Pentachloroethane, 76-01-7, U184;

G. Pentachloronitrobenzene (PCNB), 82-68-8, U185;

H. Pentachlorophenol, 87-86-5, F027;

I. Phenacetin, 62-44-2, U187;

J. Phenol, 108-95-2, U188;

K. Phenylenediamine, 25265-76-3, ...;

L. Phenylmercury acetate, 62-38-4, P092;

M. Phenylthiourea, 103-85-5, P093;

N. Phorate, 298-02-2, P094;

O. Phosgene, 75-44-5, P095;

P. Phosphine, 7803-51-2, P096;

Q. Phthalic acid esters, not otherwise specified in this list, ..., ...;

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R. Phthalic anhydride, 85-44-9, U190;

S. 2-Picoline, 109-06-8, U191;

T. Polychlorinated biphenyls, not otherwise specified in this list, ..., ...;

U. Potassium cyanide, 151-50-8, P098;

V. Potassium silver cyanide, 506-61-6, P099;

W. Pronamide, 23950-58-5, U192;

X. 1,3-Propane sultone, 1120-71-4, U193;

Y. n-Propylamine, 107-10-8, U194;

Z. Propargyl alcohol, 107-19-7, P102;

AA. Propylene dichloride, 78-87-5, U083;

BB. 1,2-Propylenimine, 75-55-8, P067;

CC. Propylthiouracil, 51-52-5, ...; and

DD. Pyridine, 110-86-1, U196.

Subp. 17. "R" constituents. Hazardous constituents beginning with the letter R are as follows:

A. ~~Reserpinen~~ Reserpine, 50-55-5, U200; and

B. Recorcinol, 108-46-3, U201.

Subp. 18. "S" constituents. Hazardous constituents beginning with the letter S are as follows:

A. Saccharin, 81-07-2, U202;

B. Saccharin and salts, ~~81-07-2~~ ....., U202;

~~B.~~ C. Safrole, 94-59-7, U203;

D. Selenium, 7782-49-2, ...;

E. Selenium compounds, not otherwise specified in this list, ..., ...;

~~C.~~ F. Selenium dioxide (Selenious acid), 7783-00-8, U204;

~~D.--Selenium-and-compounds-not-otherwise-specified-in this-list,-7782-49-2,~~

~~E.~~ G. Selenium sulfide, ~~7446-34-6~~ 7488-56-4, U205;

~~F.~~ H. Selenourea, 630-10-4, P103;

I. Silver, 7440-22-4, ...;

~~G.~~ J. Silver and compounds, not otherwise specified in this list, ~~7440-22-4~~ ....., ...;

~~H.~~ K. Silver cyanide, 506-64-9, P104;

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~~I.~~ L. Silvex (2,4,5-TP), 93-72-1, F027;

~~J.~~ M. Sodium cyanide, 143-33-9, P106;

~~K.~~ N. Streptozotocin, 18883-66-4, U206;

~~L.~~ O. Strontium sulfide, 1314-96-1, P107; and

P. Strychnine, 57-24-9, P108; and

~~M.~~ Q. Strychnine and salts, ~~57-24-9~~ ....., P108.

Subp. 19. "T" constituents. Hazardous constituents beginning with the letter T are as follows:

A. TCDD, 1746-01-6, ...;

B. 1,2,4,5-Tetrachlorobenzene, 95-94-3, U207;

~~B.--2,3,7,8-Tetrachlorodibenzo-p-dioxin-(TCDD),~~ ~~1746-01-6,~~

C. Tetrachlorodibenzo-p-dioxins , ..., ...;

D. Tetrachlorodibenzofurans, ..., ...;

E. Tetrachloroethane, not otherwise specified in this list, 25322-20-7, ...;

F. 1,1,1,2-Tetrachloroethane, 630-20-6, U208;

G. 1,1,2,2-Tetrachloroethane, 79-34-5, U209;

H. Tetrachloroethylene, 127-18-4, U210;

I. 2,3,4,6-Tetrachlorophenol, 58-90-2, F027;

J. Tetraethyldithiopyrophosphate, 3689-24-5, P109;

K. Tetraethyl lead, 78-00-2, P110;

L. Tetraethylpyrophosphate, 107-49-3, P111;

M. Tetranitromethane, 509-14-8, P112;

N. Thallium, 7440-28-0, ...;

O. Thallium and compounds, not otherwise specified in this list, ~~7440-28-0~~ ....., ...;

~~O.~~ P. Thallic oxide, 1314-32-5, P113;

~~P.~~ Q. Thallium (I) acetate, 563-68-8, U214;

~~Q.~~ R. Thallium (I) carbonate, 6533-73-9, U215;

~~R.~~ S. Thallium (I) chloride, 7791-12-0, U216;

~~S.~~ T. Thallium (I) nitrate, 10102-45-1, U217;

~~T.~~ U. Thallium selenite, 12039-52-0, P114;

~~U.~~ V. Thallium (I) sulfate, ~~10031-59-1~~ 7446-18-6, P115;

~~V.~~ W. Thioacetamide, 62-55-5, U218;

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~~W.~~ X. Thiofanox, 39196-18-4, P045;

~~X.~~ Y. Thiomethanol, 74-93-1, U153;

~~Y.~~ Z. Thiophenol, 108-98-5, P014;

~~Z.~~ AA. Thiosemicarbazide, 79-19-6, P116;

~~AA.~~ BB. Thiourea, 62-56-6, U219;

~~BB.~~ CC. Thiram, 137-26-8, U244;

~~CC.~~ DD. Toluene, 108-88-3, U220;

~~DD.~~ EE. Toluenediamine, ~~not otherwise specified in this list,~~ 25376-45-8, U221;

~~EE. 2,4-Toluenediamine~~ FF. Toluene-2,4-diamine, 95-80-7, ...;

~~FF. 2,6-Toluenediamine~~ GG. Toluene-2,6-diamine, 823-40-5, ...;

~~GG. 3,4-Toluenediamine~~ HH. Toluene-3,4-diamine, 496-72-0, ...;

~~HH.~~ II. Toluene diisocyanate, ~~584-84-9~~ 26471-62-5, U223;

JJ. o-Toluidine, 95-53-4, U328;

KK. o-Toluidine hydrochloride, 636-21-5, U222;

~~II.~~ LL. p-Toluidine, 106-49-0, U353;

~~JJ. o-Toluidine hydrochloride, 636-21-5,~~

~~KK.~~ MM. Toxaphene, 8001-35-2, P123;

~~LL.~~ NN. 1,2,4-Trichlorobenzene, 120-82-1, ...;

~~MM.~~ OO. 1,1,2-Trichloroethane, 79-00-5, U227;

~~NN.~~ PP. Trichloroethylene, 79-01-6, U228;

~~OO.~~ QQ. Trichloromethanethiol, 75-70-7, P118;

~~PP.~~ RR. Trichloromonofluoromethane, 75-69-4, U121;

~~QQ.~~ SS. 2,4,5-Trichlorophenol, 95-95-4, F027;

~~RR.~~ TT. 2,4,6-Trichlorophenol, 88-06-2, F027;

~~SS. 2,4,5-Trichlorophenoxyacetic acid (2,4,5-T)~~ UU. 2,4,5-T, 93-76-5, F027;

~~TT.~~ VV. Trichloropropane, not otherwise specified in this list, ~~.....~~ 25735-29-9, ...;

~~UU.~~ WW. 1,2,3-Trichloropropane, 96-18-4, ...;

~~VV.~~ XX. 0,0,0-Triethyl phosphorothioate, 126-68-1, ...;

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~~WW. sym~~ YY. 1,3,5-Trinitrobenzene, 99-35-4, U234;

~~XX.~~ ZZ. Tris(1-azridinyl)phosphine sulfide, 52-24-4, ...;

~~YY.~~ AAA. Tris(2,3-dibromopropyl) phosphate, 126-72-7, U235; and

~~ZZ.~~ BBB. Trypan blue, 72-57-1, U236.

Subp. 20. **"U" constituents.** Hazardous constituents beginning with the letter U are as follows:

~~A.~~ Uracil mustard, 66-75-1; ~~and~~

~~B. Undecamethylenediamine, N,N'-bis(2-chlorobenzyl)-, dihydrochloride, 2056-25-9~~, U237.

Subp. 21. **"V" constituents.** Hazardous constituents beginning with the letter V are as follows:

A. Vanadium pentoxide, 1314-62-1, P120; and

B. Vinyl chloride, 75-01-4, U043.

Subp. 22. **"W" constituents.** Hazardous constituents beginning with the letter W are as follows:

A. Warfarin, when present at concentrations less than 0.3 percent, 81-81-2, U248;

B. Warfarin, when present at concentrations greater than 0.3 percent, 81-81-2, P001;

C. Warfarin salts, when present at concentrations less than 0.3 percent, ..., U248; and

D. Warfarin salts, when present at concentrations greater than 0.3 percent, ..., P001.

Subp. 23. **"Z" constituents.** Hazardous constituents beginning with the letter Z are as follows:

A. Zinc cyanide, 557-21-1, P121; ~~and~~

B. Zinc phosphide, when present at concentrations greater than ten percent, 1314-84-7, P122; and

C. Zinc phosphide, when present at concentrations of ten percent or less, 1314-84-7, U249.

7045.0143 GROUNDWATER PROTECTION HAZARDOUS CONSTITUENTS LIST.

Subpart 1. **Scope.** For the purposes of the groundwater protection requirements in parts 7[illegible].06[illegible] subpart 1, item D,

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subitem (2); and 7045.0484, subparts 12, item H, subitem (2), and 13, item E, the hazardous constituents are listed with their corresponding Chemical Abstract Service registry numbers in subparts 2 to 27. Where "total" is entered for the Chemical Abstract Service registry number, all species in the groundwater that contain this element are included.

Subp. 2. **"A" constituents.** Hazardous constituents beginning with the letter A are as follows:

A. Acenaphthene, 83-32-9;

B. Acenaphthylene, 208-96-8;

C. Acetone, 67-64-1;

D. Acetophenone, 98-86-2;

E. Acetonitrile; Methyl cyanide, 75-05-8;

F. 2-Acetylaminofluorene; 2-AAF, 53-96-3;

G. Acrolein, 107-02-8;

H. Acrylonitrile, 107-13-1;

I. Aldrin, 309-00-2;

J. Allyl chloride, 107-05-1;

K. 4-Aminobiphenyl, 92-67-1;

L. Aniline, 62-53-3;

M. Anthracene, 120-12-7;

N. Antimony, (Total);

O. Aramite, 140-57-8; and

P. Arsenic, (Total).

Subp. 3. **"B" constituents.** Hazardous constituents beginning with the letter B are as follows:

A. Barium, (Total);

B. Benzene, 71-43-2;

C. Benzo[a]anthracene; Benzanthracene, 56-55-3;

D. Benzo[b]fluoranthene, 205-99-2;

E. Benzo[k]fluoranthene, 207-08-9;

F. Benzo[ghi]perylene, 191-24-2;

G. Benzo[a]pyrene, 50-32-8;

H. Benzyl alcohol, 100-51-6;

I. Beryllium, (Total);

J. alpha-BHC, 319-84-6;

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K. beta-BHC, 319-85-7;

L. delta-BHC, 319-86-8;

M. gamma-BHC; Lindane, 58-89-9;

N. Bis(2-chloroethoxy)methane, 111-91-1;

O. Bis(2-chloroethyl)ether, 111-44-4;

P. Bis(2-chloro-1-methylethyl) ether; 2,2'-Dichlorodiisopropyl ether, 108-60-1;

Q. Bis(2-ethylhexyl)phthalate, 117-81-7;

R. Bromodichloromethane, 75-27-4;

S. Bromoform; Tribromomethane, 75-25-2;

T. 4-Bromophenyl phenyl ether, 101-55-3; and

U. Butyl benzyl phthalate; Benzyl butyl phthalate, 85-68-7.

Subp. 4. **"C" constituents.** Hazardous constituents beginning with the letter C are as follows:

A. Cadmium, (Total);

B. Carbon disulfide, 75-15-0;

C. Carbon tetrachloride, 56-23-5;

D. Chlordane, 57-74-9;

E. p-Chloroaniline, 106-47-8;

F. Chlorobenzene, 108-90-7;

G. Chlorobenzilate, 510-15-6;

H. p-Chloro-m-cresol, 59-50-7;

I. Chloroethane; Ethyl chloride, 75-00-3;

J. Chloroform, 67-66-3;

K. 2-Chloronaphthalene, 91-58-7;

L. 2-Chlorophenol, 95-57-8;

M. 4-Chlorophenyl phenyl ether, 7005-72-3;

N. Chloroprene, 126-99-8;

O. Chromium, (Total);

P. Chrysene, 218-01-9;

Q. Cobalt, (Total);

R. Copper, (Total);

S. m-Cresol, 108-39-4;

T. o-Cresol, 95-48-7;

U. p-Cresol, 106-44-5; and

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V. Cyanide, 57-12-5.

Subp. 5. **"D" constituents.** Hazardous constituents beginning with the letter D are as follows:

A. 2,4-D; 2,4-Dichlorophenoxyacetic acid, 94-75-7;

B. 4,4'-DDD, 72-54-8;

C. 4,4'-DDE, 72-55-9;

D. 4,4'-DDT, 50-29-3;

E. Diallate, 2303-16-4;

F. Dibenz[a,h]anthracene, 53-70-3;

G. Dibenzofuran, 132-64-9;

H. Dibromochloromethane; Chlorodibromomethane, 124-48-1;

I. 1,2-Dibromo-3-chloropropane; DBCP, 96-12-8;

J. 1,2-Dibromoethane; Ethylene dibromide, 106-93-4;

K. Di-n-butyl phthalate, 84-74-2;

L. o-Dichlorobenzene, 95-50-1;

M. m-Dichlorobenzene, 541-73-1;

N. p-Dichlorobenzene, 106-46-7;

O. 3,3'-Dichlorobenzidine, 91-94-1;

P. trans-1,4-Dichloro-2-butene, 110-57-6;

Q. Dichlorodifluoromethane, 75-71-8;

R. 1,1-Dichloroethane, 75-34-3;

S. 1,2-Dichloroethane; Ethylene dichloride, 107-06-2;

T. 1,1-Dichloroethylene; Vinylidene chloride, 75-35-4;

U. trans-1,2-Dichloroethylene, 156-60-5;

V. 2,4-Dichlorophenol, 120-83-2;

W. 2,6-Dichlorophenol, 87-65-0;

X. 1,2-Dichloropropane, 78-87-5;

Y. cis-1,3-Dichloropropene, 10061-01-5;

Z. trans-1,3-Dichloropropene, 10061-02-6;

AA. Dieldrin, 60-57-1;

BB. Diethyl phthalate, 84-66-2;

CC. 0,0-Diethyl 0-2-pyrazinyl phosphorothioate; Thionazin, 297-97-2;

DD. Dimethoate, 60-51-5;

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EE. p-(Dimethylamino)azobenzene, 60-11-7;

FF. 7,12-Dimethylbenz[a]anthracene, 57-97-6;

GG. 3,3'-Dimethylbenzidine, 119-93-7;

HH. alpha, alpha-Dimethylphenethylamine, 122-09-8;

II. 2,4-Dimethylphenol, 105-67-9;

JJ. Dimethyl phthalate, 131-11-3;

KK. m-Dinitrobenzene, 99-65-0;

LL. 4,6-Dinitro-o-cresol, 534-52-1;

MM. 2,4-Dinitrophenol, 51-28-5;

NN. 2,4-Dinitrotoluene, 121-14-2;

OO. 2,6-Dinitrotoluene, 606-20-2;

PP. Dinoseb; DNBP; 2-sec-Butyl-4,6-dinitrophenol, 88-85-7;

QQ. Di-n-octyl phthalate, 117-84-0;

RR. 1,4-Dioxane, 123-91-1;

SS. Diphenylamine, 122-39-4; and

TT. Disulfoton, 298-04-4.

Subp. 6. **"E" constituents.** Hazardous constituents beginning with the letter E are as follows:

A. Endosulfan I, 959-98-8;

B. Endosulfan II, 33213-65-9;

C. Endosulfan sulfate, 1031-07-8;

D. Endrin, 72-20-8;

E. Endrin aldehyde, 7421-93-4;

F. Ethylbenzene, 100-41-4;

G. Ethyl methacrylate, 97-63-2; and

H. Ethyl methanesulfonate, 62-50-0.

Subp. 7. **"F" constituents.** Hazardous constituents beginning with the letter F are as follows:

A. Famphur, 52-85-7;

B. Fluoranthene, 206-44-0; and

C. Fluorene, 86-73-7.

Subp. 9. **"H" constituents.** Hazardous constituents beginning with the letter H are as follows:

A. Heptachlor, 76-44-8;

B. Heptachlor epoxide, 1024-57-3;

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C. Hexachlorobenzene, 118-74-1;

D. Hexachlorobutadiene, 87-68-3;

E. Hexachlorocyclopentadiene, 77-47-4;

F. Hexachloroethane, 67-72-1;

G. Hexachlorophene, 70-30-4;

H. Hexachloropropene, 1888-71-7; and

I. 2-Hexanone, 591-78-6.

Subp. 10. **"I" constituents.** Hazardous constituents beginning with the letter I are as follows:

A. Indeno(1,2,3-cd)pyrene, 193-39-5;

B. Isobutyl alcohol, 78-83-1;

C. Isodrin, 465-73-6;

D. Isophorone, 78-59-1; and

E. Isosafrole, 120-58-1.

Subp. 12. **"K" constituents.** Hazardous constituents beginning with the letter K are as follows: Kepone, 143-50-0.

Subp. 13. **"L" constituents.** Hazardous constituents beginning with the letter L are as follows: Lead, (Total).

Subp. 14. **"M" constituents.** Hazardous constituents beginning with the letter M are as follows:

A. Mercury, (Total);

B. Methacrylonitrile, 126-98-7;

C. Methapyrilene, 91-80-5;

D. Methoxychlor, 72-43-5;

E. Methyl bromide; Bromomethane, 74-83-9;

F. Methyl chloride; Chloromethane, 74-87-3;

G. 3-Methylcholanthrene, 56-49-5;

H. Methylene bromide; Dibromomethane, 74-95-3;

I. Methylene chloride; Dichloromethane, 75-09-2;

J. Methyl ethyl ketone; MEK, 78-93-3;

K. Methyl iodide; Iodomethane, 74-88-4;

L. Methyl methacrylate, 80-62-6;

M. Methyl methanesulfonate, 66-27-3;

N. 2-Methylnaphthalene, 91-57-6;

O. Methyl parathion; Parathion methyl, 298-00-0; and

P. 4-Methyl-2-pentanone; Methyl isobutyl ketone,

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108-10-1.

Subp. 15. **"N" constituents.** Hazardous constituents beginning with the letter N are as follows:

A. Naphthalene, 91-20-3;

B. 1,4-Naphthoquinone, 130-15-4;

C. 1-Naphthylamine, 134-32-7;

D. 2-Naphthylamine, 91-59-8;

E. Nickel, (Total);

F. o-Nitroaniline, 88-74-4;

G. m-Nitroaniline, 99-09-2;

H. p-Nitroaniline, 100-01-6;

I. Nitrobenzene, 98-95-3;

J. o-Nitrophenol, 88-75-5;

K. p-Nitrophenol, 100-02-7;

L. 4-Nitroquinoline 1-oxide, 56-57-5;

M. N-Nitrosodi-n-butylamine, 924-16-3;

N. N-Nitrosodiethylamine, 55-18-5;

O. N-Nitrosodimethylamine, 62-75-9;

P. N-Nitrosodiphenylamine, 86-30-6;

Q. N-Nitrosodipropylamine; Di-n-propylnitrosamine, 621-64-7;

R. N-Nitrosomethyl ethylamine, 10595-95-6;

S. N-Nitrosomorpholine, 59-89-2;

T. N-Nitrosopiperidine, 100-75-4;

U. N-Nitrosopyrrolidine, 930-55-2; and

V. 5-Nitro-o-toluidine, 99-55-8.

Subp. 17. **"P" constituents.** Hazardous constituents beginning with the letter P are as follows:

A. Parathion, 56-38-2;

B. Polychlorinated biphenyls; PCBs, 1336-36-3;

C. Polychlorinated dibenzo-p-dioxins; PCDDs, ...;

D. Polychlorinated dibenzofurans; PCDFs, ...;

E. Pentachlorobenzene, 608-93-5;

F. Pentachloroethane, 76-01-7;

G. Pentachloronitrobenzene, 82-68-8;

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H. Pentachlorophenol, 87-86-5;

I. Phenacetin, 62-44-2;

J. Phenanthrene, 85-01-8;

K. Phenol, 108-95-2;

L. p-Phenylenediamine, 106-50-3;

M. Phorate, 298-02-2;

N. 2-Picoline, 109-06-8;

O. Pronamide, 23950-58-5;

P. Propionitrile; Ethyl cyanide, 107-12-0;

Q. Pyrene, 129-00-0; and

R. Pyridine, 110-86-1.

Subp. 20. **"S" constituents.** Hazardous constituents beginning with the letter S are as follows:

A. Safrole, 94-59-7;

B. Selenium, (Total);

C. Silver, (Total);

D. Silvex; 2,4,5-TP, 93-72-1;

E. Styrene, 100-42-5; and

F. Sulfide, 18496-25-8.

Subp. 21. **"T" constituents.** Hazardous constituents beginning with the letter T are as follows:

A. 2,4,5-T; 2,4,5-Trichlorophenoxyacetic acid, 93-76-5;

B. 2,3,7,8-TCDD; 2,3,7,8-Tetrachlorodibenzo-p-dioxin, 1746-01-6;

C. 1,2,4,5-Tetrachlorobenzene, 95-94-3;

D. 1,1,1,2-Tetrachloroethane, 630-20-6;

E. 1,1,2,2-Tetrachloroethane, 79-34-5;

F. Tetrachloroethylene; Perchloroethylene; Tetrachloroethene, 127-18-4;

G. 2,3,4,6-Tetrachlorophenol, 58-90-2;

H. Tetraethyl dithiopyrophosphate; Suifotepp, 3689-24-5;

I. Thallium, (Total);

J. Tin, (Total);

K. Toluene, 108-88-3;

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L. o-Toluidine, 95-53-4;

M. Toxaphene, 8001-35-2;

N. 1,2,4-Trichlorobenzene, 120-82-1;

O. 1,1,1-Trichloroethane; Methylchloroform, 71-55-6;

P. 1,1,2-Trichloroethane, 79-00-5;

Q. Trichloroethylene; Trichloroethene, 79-01-6;

R. Trichlorofluoromethane, 75-69-4;

S. 2,4,5-Trichlorophenol, 95-95-4;

T. 2,4,6-Trichlorophenol, 88-06-2;

U. 1,2,3-Trichloropropane, 96-18-4;

V. 0,0,0-Triethyl phosphorothioate, 126-68-1; and

W. sym-Trinitrobenzene, 99-35-4.

Subp. 23. **"V" constituents.** Hazardous constituents beginning with the letter V are as follows:

A. Vanadium, (Total);

B. Vinyl acetate, 108-05-4; and

C. Vinyl chloride, 75-01-4.

Subp. 25. **"X" constituents.** Hazardous constituents beginning with the letter X are as follows: Xylene(total), 1330-20-7.

Subp. 27. **"Z" constituents.** Hazardous constituents beginning with the letter Z are as follows: Zinc, (Total).

7045.0484 GROUNDWATER PROTECTION.

Subpart 1. to 11. [Unchanged.]

Subp. 12. **Detection monitoring program.** An owner or operator required to establish a detection monitoring program under this part shall perform the following:

A. to G. [Unchanged.]

H. If the owner or operator determines that there is a statistically significant increase for monitoring parameters or hazardous constituents specified under item A, or item E, subitem (2), where applicable, at any monitoring well at the compliance point, the owner or operator shall:

(1) [Unchanged.]

(2) Immediately sample the groundwater in all

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monitoring wells and determine whether hazardous constituents identified in the list in part 7045.0143 are present and, if they are present, determine the concentration for each.

(3) Determine a background value for each hazardous constituent that has been found at the compliance point under subitem (2), as follows:

(a) to (c) [Unchanged.]

(4) [Unchanged.]

(5) Immediately institute a compliance monitoring program as specified in the permit and, within 90 days, submit to the agency an application for permit modification if it is necessary to revise the compliance monitoring program to meet the requirements of subpart 13. The application must include the following information:

(a) an identification of the concentration of each hazardous constituent found in the groundwater at each monitoring well at the compliance point;

(b) to (d) [Unchanged.]

I. to K. [Unchanged.]

Subp. 13. **Compliance monitoring program.** An owner or operator required to establish a compliance monitoring program under this part shall perform the following:

A. to D. [Unchanged.]

E. The owner or operator shall analyze samples from all monitoring wells at the compliance point to determine whether hazardous constituents identified in the list in part 7045.0143 are present and, if they are present, determine the concentration of each. The analysis must be conducted at least annually to determine whether additional part 7045.0143 hazardous constituents are present in the monitoring wells. The owner or operator shall report the concentrations of all hazardous constituents to the commissioner within seven days after completion of the analysis. The agency shall require a permit modification to include additional hazardous constituents, which have been detected in the groundwater, in all subsequent quarterly groundwater monitoring under item D.

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F. to K. [Unchanged.]

Subp. 14. [Unchanged.]

7045.0494 NOTICE TO LOCAL LAND AUTHORITY.

Subpart 1. [Unchanged.]

Subp. 2. **Post-closure notices.** Within 60 days after certification of closure of each hazardous waste disposal unit, the owner or operator shall submit to the local zoning authority or the authority with jurisdiction over local land use and to the commissioner a record of the type, location, and quantity of hazardous waste disposed of within each cell or other disposal unit of the facility. For hazardous wastes disposed of before January 12, 1981, the owner or operator shall comply with all requirements of Code of Federal Regulations, title 40, section 264.119 (1983). The owner or operator shall identify the type, location, and quantity of the waste to the best of his or her knowledge and in accordance with any records he or she has kept. A change in the type, location, or quantity of hazardous waste disposed of within each cell or area of the facility that occurs after the survey plat and record of waste have been filed must be reported to the local zoning authority or the authority with jurisdiction over local land use and to the commissioner.

7045.0518 LIABILITY REQUIREMENTS.

Subpart 1. **Coverage for sudden accidental occurrences.** An owner or operator of a hazardous waste treatment, storage, or disposal facility, or a group of facilities, shall demonstrate financial responsibility for bodily injury and property damage to third parties caused by sudden accidental occurrences arising from operations of the facility or group of facilities. The owner or operator shall have and maintain liability coverage for sudden accidental occurrences in the amount of at least $1,000,000 per occurrence with an annual aggregate of at least $2,000,000, exclusive of legal defense costs. This liability coverage may be demonstrated in one of the following ways:

A. [Unchanged.]

B. An owner or operator may meet the requirements of

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this part by passing a financial test or using the corporate guarantee for liability coverage as specified in subparts 6 and 7.

C. An owner or operator may demonstrate the required liability coverage through use of the financial test, insurance, the corporate guarantee, a combination of the financial test and insurance, or a combination of the corporate guarantee and insurance, as these mechanisms are specified in this part. The amounts of coverage demonstrated must total at least the minimum amounts required by subpart 1.

Subp. 2. Coverage for nonsudden accidental occurrences. An owner or operator of a surface impoundment, landfill, or land treatment facility which is used to manage hazardous waste, or a group of such facilities, shall demonstrate financial responsibility for bodily injury and property damage to third parties caused by nonsudden accidental occurrences arising from operations of the facility or group of facilities. The owner or operator shall have and maintain liability coverage for nonsudden accidental occurrences in the amount of at least $3,000,000 per occurrence with an annual aggregate of at least $6,000,000, exclusive of legal defense costs. This liability coverage may be demonstrated in one of the following ways:

A. [Unchanged.]

B. An owner or operator may meet the requirements of this part by passing a financial test or using the corporate guarantee for liability coverage as specified in subparts 6 and 7.

C. An owner or operator may demonstrate the required liability coverage through use of the financial test, insurance, the corporate guarantee, a combination of the financial test and insurance, or a combination of the corporate guarantee and insurance, as these mechanisms are specified in this part. The amounts of coverage must total at least the minimum amounts required by subpart 2.

D. [Unchanged.]

Subp. 3. to 6. [Unchanged.]

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Subp. 7. **Corporate guarantee for liability coverage.** The corporate guarantee for liability coverage is as follows:

A. Subject to item B, an owner or operator may meet the requirements of this part by obtaining a written corporate guarantee. The guarantor must be the parent corporation of the owner or operator. The guarantor must meet the requirements for owners or operators in subpart 6. The wording of the corporate guarantee must be identical to the wording specified in part 7045.0524, subpart 8a. The guarantee must be signed by two corporate officers of the parent corporation. A corporate resolution authorizing the parent corporation to provide the corporate guarantee for the subsidiary must be attached to the corporate guarantee. A certified copy of the corporate guarantee must accompany the items sent to the commissioner as provided in subpart 6, item E. The terms of the corporate guarantee must provide that:

(1) if the owner or operator fails to satisfy a judgment based on a determination of liability for bodily injury or property damage to third parties caused by sudden or nonsudden accidental occurrences, or both, as the case may be, arising from the operation of facilities covered by this corporate guarantee, or fails to pay an amount agreed to in settlement of claims arising from or alleged to arise from the injury or damage, the guarantor will do so up to the limits of coverage; and

(2) the corporate guarantee will remain in force unless the guarantor sends notice of cancellation by certified mail to the owner or operator and to the commissioner. This guarantee may not be terminated unless and until the commissioner approves alternate liability coverage complying with this part and/or part 7045.0620.

B. A corporate guarantee may be used to satisfy the requirements of this part only if:

(1) in the case of corporations incorporated in the United States, the attorney general or insurance commissioner of the state in which the guarantor is incorporated

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and of each state in which a facility covered by the guarantee is located has submitted a written statement to the commissioner and the United States Environmental Protection Agency that a corporate guarantee executed as described in this part and part 7045.0524, subpart 8a, is a legally valid and enforceable obligation in that state; and

(2) in the case of corporations incorporated outside the United States, the non-United States corporation has identified a registered agent for service of process in each state in which a facility covered by the guarantee is located and in the state in which it has its principal place of business, and the attorney general or insurance commissioner of each state in which a facility covered by the guarantee is located and the state in which the guarantor corporation has its principal place of business, has submitted a written statement to the commissioner and the United States Environmental Protection Agency that a corporate guarantee executed as described in this part and part 7045.0524, subpart 8a, is a legally valid and enforceable obligation in that state.

7045.0524 WORDING OF INSTRUMENTS.

Subpart 1. to 5. [Unchanged.]

Subp. 6. **Letter from chief financial officer for corrective action, closure, and/or post-closure care.** A letter from the chief financial officer as specified in part 7045.0504, subpart 7; 7045.0508, subpart 7; 7045.0514, subpart 7; 7045.0612, subpart 6; or 7045.0616, subpart 6 must be worded as specified in this subpart, except that instructions in brackets must be replaced with the relevant information and the brackets deleted.

LETTER FROM CHIEF FINANCIAL OFFICER FOR CORRECTIVE ACTION, CLOSURE, AND/OR POST-CLOSURE CARE

[Agency Commissioner]
Minnesota Pollution Control Agency

I am the chief financial officer of [name and address of firm]. This letter is in support of this firm's use of the

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financial test to demonstrate financial assurance, as specified in Minnesota Rules, parts 7045.0498 to 7045.0524 and 7045.0608 to 7045.0624.

[Fill out the following five paragraphs regarding facilities and associated cost estimates. If your firm has no facilities that belong in a particular paragraph, write "None" in the space indicated. For each facility, include its identification number, name, address, and current corrective action, closure, and/or post-closure cost estimates. Identify each cost estimate as to whether it is for corrective action, closure, or post-closure care.]

1. to 4. [Unchanged.]

5. This firm is the owner or operator of the following underground injection control (UIC) facilities for which financial assurance for plugging and abandonment is required under Code of Federal Regulations, title 40, part 144. The current closure cost estimates as required by Code of Federal Regulations, title 40, section 144.62 are shown for each facility.

This firm [insert "is required" or "is not required"] to file a Form 10K with the Securities and Exchange Commission (SEC) for the latest fiscal year.

The fiscal year of this firm ends on [month, day]. The figures for the following items marked with an asterisk are derived from this firm's independently audited, year-end financial statements for the latest completed fiscal year, ended [date].

[Fill in Alternative I if the criteria of Minnesota Rules, part 7045.0504, subpart 7, item B; 7045.0508, subpart 7, item B; 7045.0514, subpart 7, item B; 7045.0612, subpart 6, item B; 7045.0616, subpart 6, item B are used. Fill in Alternative II if the criteria of Minnesota Rules, part 7045.0504, subpart 7, item C; 7045.0508, subpart 7, item C; 7045.0514, subpart 7, item C; or 7045.0612, subpart 6, item C; or 7045.0616, subpart 6, item C are used.]

ALTERNATIVE I

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1. Sum of current corrective action, closure, and post-closure cost estimate [total of all cost estimates shown in the five paragraphs above] $_____

*2. Total liabilities [if any portion of the corrective action, closure, or post-closure cost estimates is included in total liabilities, you may deduct the amount of that portion from this line and add that amount to lines 3 and 4]. $_____

*3. Tangible net worth $_____

*4. Net worth $_____

*5. Current assets $_____

*6. Current liabilities $_____

7. Net working capital [line 5 minus line 6] $_____

*8. The sum of net income plus depreciation, depletion, and amortization $_____

*9. Total assets in United States (required only if less than 90 percent of firm's assets are located in United States) $_____

	YES	NO
10. Is line 3 at least $10,000,000?	___	___
11. Is line 3 at least 6 times line 1?	___	___
12. Is line 7 at least 6 times line 1?	___	___
*13. Are at least 90 percent of firm's assets located in the United States? If not, complete line 14	___	___
14. Is line 9 at least 6 times line 1?	___	___
15. Is line 2 divided by line 4 less than 2.0?	___	___
16. Is line 8 divided by line 2 greater than 0.1?	___	___
17. Is line 5 divided by line 6 greater than 1.5?	___	___

ALTERNATIVE II

1. Sum of current corrective action, closure, and post-closure cost estimates [total of all cost estimates shown in the five paragraphs above] $_____

2. Current bond rating of most recent issuance of this firm and name of rating service _____

3. Date of issuance of bond _____

4. Date of maturity of bond _____

*5. Tangible net worth [if any portion of the corrective action, closure, and post-closure cost estimates is included in "total liabilities" on your firm's financial statements, you may add the amount of that portion to this line] $_____

*6. Total assets in United States (required only if less than 90 percent of firm's assets are located in United States) $_____

	YES	NO
7. Is line 5 at least $10,000,000?	___	___
8. Is line 5 at least 6 times line 1?	___	___
*9. Are at least 90 percent of firm's assets located in United States? If not, complete line 10	___	___
10. Is line 6 at least 6 times line 1?	___	___

I hereby certify that the wording of this letter is identical to the wording specified in Minnesota Rules, part 7045.0524, subpart 6, as such rules were constituted on the date shown immediately below.

[SIGNATURE]

[NAME]

[TITLE]

[DATE]

Subp. 7. **Letter from chief financial officer for liability cov. ge.** letter from the chief financial officer as

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specified in part 7045.0518, subpart 6 or 7045.0620, subpart 5 must be worded as specified in this subpart, except that instructions in brackets must be replaced with the relevant information and the brackets deleted.

LETTER FROM CHIEF FINANCIAL OFFICER
FOR LIABILITY COVERAGE OR LIABILITY COVERAGE,
CORRECTIVE ACTION, CLOSURE, AND/OR POST-CLOSURE CARE

[Agency Commissioner]
Minnesota Pollution Control Agency

I am the chief financial officer of [firm's name and address]. This letter is in support of the use of the financial test to demonstrate financial responsibility for liability coverage [insert "and corrective action, closure, and/or post-closure care" if applicable] as specified in Minnesota Rules, parts 7045.0498 to 7045.0524 and 7045.0608 to 7045.0624.

[Fill out the following paragraph regarding facilities and liability coverage. If there are no facilities that belong in a particular paragraph, write "None" in the space indicated. For each facility, include its identification number, name, and address.]

The firm identified above is the owner or operator of the following facilities for which liability coverage for [insert "sudden" or "nonsudden" or "both sudden and nonsudden"] accidental occurrences is being demonstrated through the financial test specified in Minnesota Rules, parts 7045.0498 to 7045.0524 and 7045.0608 to 7045.0624:

_____.

The firm identified above guarantees, through the corporate guarantee specified in Minnesota Rules, parts 7045.0498 to 7045.0524 and 7045.0608 to 7045.0624, liability coverage for [insert "sudden" or "nonsudden" or "both sudden and nonsudden"] accidental occurrences at the following facilities owned or operated by the following subsidiaries of the firm:

_____.

[If you are using the financial test to demonstrate coverage of both liability and corrective action, closure, and

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post-closure care, fill in the following five paragraphs regarding facilities and associated corrective action, closure, and post-closure cost estimates. If there are no facilities that belong in a particular paragraph, write "None" in the space indicated. For each facility, include its identification number, name, address, and current corrective action, closure, and/or post-closure cost estimates. Identify each cost estimate as to whether it is for corrective action, closure, or post-closure care.]

1. The firm identified above owns or operates the following facilities for which financial assurance for corrective action, closure, or post-closure care is demonstrated through the financial test specified in Minnesota Rules, parts 7045.0498 to 7045.0524 and 7045.0608 to 7045.0624. The current corrective action, closure, and/or post-closure cost estimates covered by the test are shown for each facility:

_____.

2. The firm identified above guarantees, through the corporate guarantee specified in Minnesota Rules, part 7045.0498 to 7045.0524 and 7045.0608 to 7045.0624, the corrective action, closure, and post-closure care of the following facilities owned or operated by its subsidiaries. The current cost estimates for the corrective action, closure, or post-closure care so guaranteed are shown for each facility:

_____.

3. In states other than Minnesota, this firm is demonstrating financial assurance for the corrective action, closure, or post-closure care of the following facilities either to the United States Environmental Protection Agency through the use of the financial test specified in Code of Federal Regulations, title 40, parts 264 or 265, subpart H, or to an authorized state through the use of a test equivalent or substantially equivalent to the specified financial test. The current corrective action, closure, and/or post-closure cost estimates covered by such a test are shown for each facility:

_____.

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4. The firm identified above owns or operates the following hazardous waste management facilities for which financial assurance for corrective action, if required, closure, or, if a disposal facility, post-closure care, is not demonstrated either to the United States Environmental Protection Agency, or a state through the financial test or any other financial assurance mechanism specified in Code of Federal Regulations, title 40, parts 264 or 265, subpart H, or equivalent or substantially equivalent state mechanisms. The current corrective action, closure, and/or post-closure cost estimates not covered by such financial assurance are shown for each facility: _____.

5. The firm identified above owns or operates the following underground injection control (UIC) facilities for which financial assurance for plugging and abandonment is required under Code of Federal Regulations, title 40, part 144. The current closure cost estimates as required by Code of Federal Regulations, title 40, section 144.62 are shown for each facility:

_____.

This firm [insert "is required" or "is not required"] to file a Form 10K with the Securities and Exchange Commission (SEC) for the latest fiscal year.

The fiscal year of this firm ends on [month, day]. The figures for the following items marked with an asterisk are derived from this firm's independently audited, year-end financial statements for the latest completed fiscal year, ended [date].

[Fill in Part A if you are using the financial test to demonstrate coverage only for the liability requirements.]

Part A. Liability Coverage for Accidental Occurrences.

[Fill in Alternative I if the criteria of Minnesota Rules, part 7045.0518, subpart 6, item B or 7045.0620, subpart 5, item B are used. Fill in Alternative II if the criteria of Minnesota Rules, part 7045.0518, subpart 6, item C or 7045.0620, subpart 5, item C are used.]

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ALTERNATIVE I

1.	Amount of annual aggregate liability coverage to be demonstrated	$_____
*2.	Current assets	$_____
*3.	Current liabilities	$_____
4.	Net working capital (line 2 minus line 3)	$_____
*5.	Tangible net worth	$_____
*6.	If less than 90 percent of assets are located in the United States, give total United States assets	$_____
		YES NO
7.	Is line 5 at least $10,000,000?	___ ___
8.	Is line 4 at least 6 times line 1?	___ ___
9.	Is line 5 at least 6 times line 1?	___ ___
*10.	Are at least 90 percent of assets located in the United States? If not, complete line 11	___ ___
11.	Is line 6 at least 6 times line 1?	___ ___

ALTERNATIVE II

1.	Amount of annual aggregate liability coverage to be demonstrated	$_____
2.	Current bond rating of most recent issuance and name of rating service	_____
3.	Date of issuance of bond	_____
4.	Date of maturity of bond	_____
*5.	Tangible net worth	$_____
*6.	Total assets in United States (required only if less than 90 percent of assets located in the United States)	$_____
		YES NO
7.	Is line 5 at least $10,000,000?	___ ___
8.	Is line 5 at least 6 times line 1?	___ ___
*9.	Are at least 90 percent of assets located in the United States? If not, complete line 10	___ ___
10.	Is line 6 at least 6 times line 1?	___ ___

Part B. Corrective Action, Closure, or Post-Closure Care and Liability Coverage.

[Fill in Alternative I if the criteria of Minnesota Rules, parts 7045.0504, subpart 7, item B; 7045.0508, subpart 7, item B; 7045.0514, subpart 7, item B; and 7045.0518, subpart 6, item B are used or if the criteria of Minnesota Rules, parts 7045.0612, subpart 6, item B or 7045.0616, subpart 6, item B; and 7045.0620, subpart 5, item B are used. Fill in Alternative II if the criteria of Minnesota Rules, parts 7045.0504, subpart 7, item C; 7045.0508, subpart 7, item C; 7045.0514, subpart 7, item C; and 7045.0518, subpart 6, item C are used or if the criteria of Minnesota Rules, parts 7045.0612, subpart 6, item C; 7045.0616, subpart 6, item C; and 7045.0620, subpart 5, item C are used.]

ALTERNATIVE I

1.	Sum of current corrective action, closure, and post-closure cost estimates (total of all cost estimates listed above)	$_____
2.	Amount of annual aggregate liability coverage to be demonstrated	$_____

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		YES	NO
3.	Sum of lines 1 and 2	$_____	
*4.	Total liabilities (if any portion of your current corrective action, closure, or post-closure cost estimates is included in your total liabilities, you may deduct that portion from this line and add that amount to lines 5 and 6)	$_____	
*5.	Tangible net worth	$_____	
*6.	Net worth	$_____	
*7.	Current assets	$_____	
*8.	Current liabilities	$_____	
9.	Net working capital (line 7 minus line 8)	$_____	
*10.	The sum of net income plus depreciation, depletion, and amortization	$_____	
*11.	Total assets in United States (required only if less than 90 percent of assets are located in the United States)	$_____	
12.	Is line 5 at least $10,000,000?	___	___
13.	Is line 5 at least 6 times line 3?	___	___
14.	Is line 9 at least 6 times line 3?	___	___
*15.	Are at least 90 percent of assets located in the United States? If not, complete line 16	___	___
16.	Is line 11 at least 6 times line 3?	___	___
17.	Is line 4 divided by line 6 less than 2.0?	___	___
18.	Is line 10 divided by line 4 greater than 0.1?	___	___
19.	Is line 7 divided by line 8 greater than 1.5?	___	___

ALTERNATIVE II

		YES	NO
1.	Sum of current corrective action, closure, and post-closure cost estimates (total of all cost estimates listed above)	$_____	
2.	Amount of annual aggregate liability coverage to be demonstrated	$_____	
3.	Sum of lines 1 and 2	$_____	
4.	Current bond rating of most recent issuance and name of rating service	_____	
5.	Date of issuance of bond	_____	
6.	Date of maturity of bond	_____	
*7.	Tangible net worth (if any portion of the current corrective action, closure, or post-closure cost estimates is included in "total liabilities" on your financial statements you may add that portion to this line)	$_____	
*8.	Total assets in the United States (required only if less than 90 percent of assets are located in the United States)	$_____	
9.	Is line 7 at least $10,000,000?	___	___
10.	Is line 7 at least 6 times line 3?	___	___
*11.	Are at least 90 percent of assets located in the United States? If not, complete line 12	___	___
12.	Is line 8 at least 6 times line 3?	___	___

I hereby certify that the wording of this letter is identical to the wording specified in Minnesota Rules, part 7045.0524, subpart 7, as the rules were constituted on the date shown immediately below.

[SIGNATURE]

[NAME]

[TITLE]

[DATE]

Subp. 8. [Unchanged.]

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Subp. 8a. Corporate guarantee for liability coverage. A corporate guarantee as specified in part 7045.0518, subpart 7, or 7045.0620, subpart 6, must be worded as follows, except that instructions in brackets are to be replaced with the relevant information and the brackets deleted:

CORPORATE GUARANTEE FOR LIABILITY COVERAGE

Guarantee made this [date] by [name of guaranteeing entity], a business corporation organized under the laws of [if incorporated within the United States, insert "the State of ....." and insert name of state; if incorporated outside the United States, insert the name of the country in which incorporated, the principal place of business within the United States, and the name and address of the registered agent in the state of the principal place of business], referred to in this guarantee as the guarantor. This guarantee is made on behalf of our subsidiary [owner or operator] of [business address], to any and all third parties who have sustained or may sustain bodily injury or property damage caused by [sudden and/or nonsudden] accidental occurrences arising from operation of the facility(ies) covered by this guarantee.

Recitals

1. Guarantor meets or exceeds the financial test criteria and agrees to comply with the reporting requirements for guarantors as specified in Minnesota Rules, parts 7045.0518, subpart 7, and 7045.0620, subpart 6.

2. [Owner or operator] owns or operates the following hazardous waste management facility(ies) covered by this guarantee: [List for each facility: EPA Identification Number, name, and address; and if guarantor is incorporated outside the United States, list the name and address of the guarantor's registered agent in each state.] This corporate guarantee satisfies RCRA third-party liability requirements for [insert "sudden" or "nonsudden" or "both sudden and nonsudden"] accidental occurrences in above-named owner or operator facilities for coverage in the amount of [insert dollar amount] for each occurrence and [insert dollar amount] annual aggregate.

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3. For value received from [owner or operator], guarantor guarantees to any and all third parties who have sustained or may sustain bodily injury or property damage caused by [sudden and/or nonsudden] accidental occurrences arising from operations of the facility(ies) covered by this guarantee that in the event that [owner or operator] fails to satisfy a judgment or award based on a determination of liability for bodily injury or property damage to third parties caused by [sudden and/or nonsudden] accidental occurrences, arising from the operation of the above-named facilities, or fails to pay an amount agreed to in settlement of a claim arising from or alleged to arise from such injury or damage, the guarantor will satisfy such judgment(s), award(s), or settlement agreement(s), up to the limits of coverage identified above.

4. Guarantor agrees that if, at the end of any fiscal year before termination of this guarantee, the guarantor fails to meet the financial test criteria, guarantor shall send within 90 days, by certified mail, notice to the commissioner and to [owner or operator] that (s)he intends to provide alternate liability coverage as specified in Minnesota Rules, parts 7045.0518 and 7045.0620, as applicable, in the name of [owner or operator]. Within 120 days after the end of that fiscal year, the guarantor shall establish the liability coverage unless [owner or operator] has done so.

5. The guarantor agrees to notify the commissioner by certified mail of a voluntary or involuntary proceeding under Title 11 (bankruptcy), United States Code, naming guarantor as debtor, within ten days after commencement of the proceeding.

6. Guarantor agrees that within 30 days after being notified by the commissioner of a determination that guarantor no longer meets the financial test criteria or that (s)he is disallowed from continuing as a guarantor, (s)he shall establish alternate liability coverage as specified in Minnesota Rules, part 7045.0518 or 7045.0620 in the name of [owner or operator], unles [ow or erator] has done so.

7. Guarantor reserves the right to modify this agreement

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to take into account amendment or modification of the liability requirements established by Minnesota Rules, parts 7045.0518 and 7045.0620, but the modification becomes effective only if the commissioner does not disapprove the modification within 30 days of receipt of notification of the modification.

8. Guarantor agrees to remain bound under this guarantee for so long as [owner or operator] must comply with the applicable requirements of Minnesota Rules, parts 7045.0518 and 7045.0620 for the above-listed facility(ies), except as provided in paragraph 9 of this agreement.

9. Guarantor may terminate this guarantee by sending notice by certified mail to the commissioner and to [owner or operator] but this guarantee may not be terminated unless and until [owner or operator] obtains, and the commissioner approves alternate liability coverage complying with Minnesota Rules, parts 7045.0518 and/or 7045.0620.

10. Guarantor hereby expressly waives notice of acceptance of this guarantee by any party.

11. Guarantor agrees that this guarantee is in addition to and does not affect any other responsibility or liability of the guarantor with respect to the covered facilities.

12. Exclusions

This corporate guarantee does not apply to:

A. Bodily injury or property damage for which the owner or operator is obliged to pay damages by reason of the assumption of liability in a contract or agreement. This exclusion does not apply to liability for damages that the owner or operator would be obligated to pay in the absence of the contract or agreement.

B. Any obligation of the owner or operator under a workers' compensation, disability benefits, or unemployment compensation law or any similar law.

C. Bodily injury to:

(1) an employee of the owner or operator arising from, and in the course of, employment by the owner or operator; or

(2) the spouse, child, parent, brother, or sister of that

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employee as a consequence of, or arising from, and in the course of, employment by the owner or operator.

This exclusion applies whether the owner or operator is liable as an employer or in any other capacity. This exclusion also applies to any obligation to share damages with or repay another person who must pay damages because of the injury to persons identified in item C.

D. Bodily injury or property damage arising out of the ownership, maintenance, use, or entrustment to others of any aircraft, motor vehicle, or watercraft.

E. Property damage to:

(1) any property owned, rented, or occupied by the owner or operator;

(2) premises that are sold, given away, or abandoned by the owner or operator if the property damage arises out of any part of those premises;

(3) property loaned to the owner or operator;

(4) personal property in the care, custody, or control of the owner or operator; and

(5) that particular part of real property on which the owner or operator or any contractors or subcontractors working directly or indirectly on behalf of the owner or operator are performing operations, if the property damage arises out of these operations.

I hereby certify that the wording of the guarantee is identical to the wording specified in Minnesota Rules, part 7045.0524, subpart 8a.

Effective date: .....

[Name of guarantor]

[Authorized signatures for guarantor]

[Names of persons signing]

[Titles of persons signing (Two corporate officers must sign for parent corporation.)]

Corporate resolution attached [(Attach resolution adopted by parent corporation authorizing parent corporation to provide the corporate guarantee for subsidiary)]

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Signature of witness or notary:

_____

Subp. 9. and 10. [Unchanged.]

7045.0602 POST-CLOSURE CARE AND USE OF PROPERTY.

Subpart 1. and 2. [Unchanged.]

Subp. 3. **Post-closure use of property.** Post-closure use of property on or in which hazardous wastes remain after closure must never be allowed by the owner or operator to disturb the integrity of the final cover, liners, or any other components of any containment system or the function of the facility's monitoring system, unless the owner or operator can demonstrate to the commissioner either in the post-closure plan or by petition that the disturbance:

A. and B. [Unchanged.]

Subp. 4. [Unchanged.]

7045.0610 COST ESTIMATE FOR FACILITY CLOSURE.

Subpart 1. **Cost estimate requirements.** The owner or operator shall prepare a detailed written estimate, in current dollars, of the cost of closing the facility in accordance with the closure plan in part 7045.0594 and applicable closure requirements in parts 7045.0626, subpart 8; 7045.0628, subpart 5; 7045.0630, subpart 6; 7045.0632, subpart 7; 7045.0634, subpart 6; 7045.0638, subpart 4; 7045.0640, subpart 5; and 7045.0642, subpart 5. The closure cost estimate must equal the cost of closure at the point in the facility's operating life when the extent and manner of its operation would make closure the most expensive, as indicated by its closure plan. The closure cost shall be estimated as follows:

A. [Unchanged.]

B. The closure cost estimate may not incorporate any salvage value that may be realized with the sale of hazardous wastes, facility structures or equipment, land, or other assets associated with the facility at the time of partial or final closure.

C. [Unchanged.]

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Subp. 2. to 4. [Unchanged.]

7045.0620 LIABILITY REQUIREMENTS.

Subpart 1. **Coverage for sudden accidental occurrences.** An owner or operator of a hazardous waste treatment, storage, or disposal facility, or a group of these facilities, shall demonstrate financial responsibility for bodily injury and property damage to third parties caused by sudden accidental occurrences arising from operations of the facility or group of facilities. The owner or operator shall have and maintain liability coverage for sudden accidental occurrences in the amount of at least $1,000,000 per occurrence with an annual aggregate of at least $2,000,000, exclusive of legal defense costs. This liability coverage may be demonstrated in one of three ways, as specified in items A, B, and C:

A. [Unchanged.]

B. An owner or operator may meet the requirements of this part by passing a financial test or using the corporate guarantee for liability coverage as specified in subparts 5 and 6.

C. An owner or operator may demonstrate the required liability coverage through use of the financial test, insurance, the corporate guarantee, a combination of the financial test and insurance, or a combination of the corporate guarantee and insurance as these mechanisms are specified in this part. The amounts of coverage demonstrated must total at least the minimum amounts required by subpart 1.

Subp. 2. **Coverage for nonsudden accidental occurrences.** An owner or operator of a surface impoundment, landfill, or land treatment facility which is used to manage hazardous waste, or a group of these facilities, shall demonstrate financial responsibility for bodily damage and property damage to third parties caused by nonsudden accidental occurrences arising from operations of the facility or group of facilities. The owner or operator shall have and maintain liability coverage for nonsudden accidental occurrences in the amount of at least

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$3,000,000 per occurrence with an annual aggregate of at least $6,000,000, exclusive of legal defense costs. This liability coverage may be demonstrated in one of three ways as specified in items A, B, and C:

A. [Unchanged.]

B. An owner or operator may meet the requirements of this part by passing a financial test or using the corporate guarantee for liability coverage as specified in subparts 5 and 6.

C. An owner or operator may demonstrate the required liability coverage through use of the financial test, insurance, the corporate guarantee, a combination of the financial test and insurance, or a combination of the corporate guarantee and insurance as these mechanisms are specified in this part. The amounts of coverage must total at least the minimum amounts required by subpart 1.

D. and E. [Unchanged.]

Subp. 3. to 5. [Unchanged.]

Subp. 6. **Corporate guarantee for liability coverage.** The corporate guarantee for liability coverage is as follows:

A. Subject to item B, an owner or operator may meet the requirements of this part by obtaining a written corporate guarantee. The guarantor must be the parent corporation of the owner or operator. The guarantee must meet the requirements for owners or operators in subpart 5. The wording of the corporate guarantee must be identical to the wording specified in part 7045.0524, subpart 8a. The guarantee must be signed by two corporate officers of the parent corporation. A corporate resolution authorizing the parent corporation to provide the corporate guarantee for the subsidiary must be attached to the guarantee. A certified copy of the corporate guarantee must accompany the items sent to the commissioner as specified in subpart 5, item E. The terms of the corporate guarantee must provide that:

(1) if the owner or operator fails to satisfy a judgment based on a determination of liability for bodily injury

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or property damage to third parties caused by sudden or nonsudden accidental occurrences, or both, as the case may be, arising from the operation of facilities covered by this corporate guarantee, or fails to pay an amount agreed to in settlement of claims arising from or alleged to arise from such injury or damage, the guarantor will do so up to the limits of coverage; and

(2) the corporate guarantee will remain in force unless the guarantor sends notice of cancellation by certified mail to the owner or operator and to the commissioner. This guarantee may not be terminated unless and until the commissioner approves alternate liability coverage complying with this part and/or part 7045.0518.

B. A corporate guarantee may be used to satisfy the requirements of this part only if:

(1) in the case of corporations incorporated in the United States, the attorney general or insurance commissioner of the state in which the guarantor is incorporated and of each state in which a facility covered by the guarantee is located has submitted a written statement to the commissioner and the United States Environmental Protection Agency that a corporate guarantee executed as described in this part and part 7045.0524, subpart 8a, is a legally valid and enforceable obligation in that state; and

(2) in the case of corporations incorporated outside the United States, the non-United States corporation has identified a registered agent for service of process in each state in which a facility covered by the guarantee is located and in the state in which it has its principal place of business, and the attorney general or insurance commissioner of each state in which a facility covered by the guarantee is located and the state in which the guarantor corporation has its principal place of business, has submitted a written statement to the commissioner and the United States Environmental Protection Agency that a corporate guarantee executed as described in this part and part 7045.0524, subpart 8a, is a

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legally valid and enforceable obligation in that state.

7045.0630 SURFACE IMPOUNDMENTS.

Subpart 1. to 5. [Unchanged.]

Subp. 6. **Closure and post-closure.** The requirements of closure and post-closure are as follows:

A. At closure, the owner or operator may elect to remove from the impoundment or decontaminate any standing liquids, waste and waste residues, contaminated containment system components including liners, if any, underlying and surrounding contaminated soil, and structures and equipment contaminated with waste and leachate.

B. If the owner or operator removes or decontaminates all the impoundment materials described in item A, the impoundment is not further subject to the requirements of parts 7045.0552 to 7045.0642. At closure and throughout the operating period, unless the owner or operator can demonstrate that any waste removed from the surface impoundment is not a hazardous waste, he or she becomes a generator of hazardous waste and must manage it in accordance with all applicable requirements of parts 7045.0205 to 7045.0397 and 7045.0552 to 7045.0642.

C. If the owner or operator does not remove or decontaminate all the impoundment materials described in item A, he or she shall close the impoundment and provide post-closure care as for a landfill under parts 7045.0594 to 7045.0606 and 7045.0638, subpart 4, including the following:

(1) eliminate free liquids by removing liquid wastes or solidifying the remaining wastes and waste residues;

(2) stabilize remaining wastes to a bearing capacity sufficient to support the final cover; and

(3) cover the surface impoundment with a final cover designed and constructed to provide long-term minimization of the migration of liquids through the closed impoundment, function with minimum maintenance, promote drainage and minimize erosion or abrasion of the cover, accommodate settling and subsidence so that the cover's integrity is maintained, and have

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a permeability less than or equal to the permeability of any bottom liner system or natural subsoils present.

D. In addition to the requirements of parts 7045.0594 to 7045.0606 and 7045.0638, subpart 4, during the post-closure care period, the owner or operator of a surface impoundment in which wastes, waste residues, or contaminated materials remain after closure in accordance with item C shall:

(1) maintain the integrity and effectiveness of the final cover, including making repairs to the cover as necessary to correct the effects of settling, subsidence, erosion, or other events;

(2) maintain and monitor the groundwater monitoring system and comply with all other applicable requirements of part 7045.0590; and

(3) prevent run-on and run-off from eroding or otherwise damaging the final cover.

The closure requirements under part 7045.0638, subpart 4, will vary with the amount and nature of the residues remaining, if any, and the degree of contamination of the underlying and surrounding soil. The commissioner may vary post-closure requirements, according to part 7045.0602, subpart 1.

Subp. 7. and 8. [Unchanged.]

APPROVED AS TO FORM AND LEGALITY
August 12 1988
HUBERT H. HUMPHREY, III
ATTORNEY GENERAL
BY M J Carnahan
SPECIAL ASSISTANT ATTORNEY GENERAL

STATE OF MINNESOTA
DEPARTMENT OF STATE
FILED
AUG 17 1988
Joan Anderson Growe
Secretary of State
1.25 pcs

Approved
by Revisor _____

ATTORNEY GENERAL

August 17, 1988

William Sierks
Special Assistant Attorney General
520 Lafayette Road, Second Floor

MARTHA J. CASSERLY
Special Assistant Attorney General
515 Transportation Building

6-6839

In the Matter of the Adopted Rule Relating to Hazardous Waste; Corrective Action, Guarantees, Interim Status, Groundwater, and Lists

The above-referenced rule has been approved as to its legality by the Attorney General on August 12, 1988.

Enclosed is the agency's copy of the approved rule. This office has already filed two copies with the Secretary of State, who will forward one copy to the Revisor of Statutes. The fourth is being retained by this division of the Attorney General's Office for its records.

Also enclosed are any petitions, requests, submissions or comments received by the agency and any extra copies of documents which the agency submitted to the Attorney General.

In order for a permanent rule without a hearing to become effective, your agency must establish a notice of adoption in the State Register in accordance with Minn. Stat. § 14.27. An emergency rule becomes effective five working days after approval by the Attorney General; however, the agency must publish a notice in the State Register in accordance with Minn. Stat. § 14.34.

If you have any questions in this regard, please contact me.

MJC:bbl
Enclosures

cc: Maryanne Hruby
William Brown

MJC

RULE REVIEW CHECKLIST

File No. 1509 Docket No. 05-0009-0697

DATE RECEIVED 7-29-88 ADOPTED W/O HEARING ✓

REVIEW DATE 8-8-88 EMERGENCY RULE _____

DUE DATE 8-12-88 REVISOR APPROVED _____

APPROVED 8-12-88 mjc REVISOR DISAPPROVED _____

DISAPPROVED _____ FILED W/SEC. OF STATE _____

WITHDRAWN _____ RETURNED TO AGENCY _____

✓ Rule as adopted (4 copies)

✓ Notice to Solicit Outside Information/Opinion (if applicable)

2/29/88 Date published in State Register
yes Comments

~~Petition for Adoption of a Rule (if applicable)~~

✓ Board's Authorizing Resolution

4/26/88 Date adopted

✓ Proposed Rule

~~Revisor's Certificate~~ sct

✓ Notice of Intent to Adopt Rule

116.07 subd 4 Statutory Authority
yes Small Business Statement
No Expenditure of public money statement
yes Signature

✓ Statement of Need and Reasonableness (if applicable)

yes Small Business Statement
Fees - § 16A.128

✓ Affidavit of Mailing Notice of Intent to Adopt Rule

5/13/88 Date (30)/25 days before adoption
or Notice attached
~~Copy of rule or summary attached~~

Publication in State Register

5/16/88 Date (30)/25 days before adoption

180-day deadline from:

6/13/88 end of comment period (§ 14.26) (rules without hearing)
~~effective date of statutory authority (§ 14.29) (emergency rules)~~

✓ Resolution Adopting

7/26/88 Date adopted

✓ Findings of Fact, Conclusions & Order Adopting

7/26/88 Date

✓ Written requests, submissions or comments

✓ Declaration of attorney

N. Sierks Name of SAAG representing agency

~~Notice of Submission to Atty. Gen. (if applicable)~~

~~Aff. of Mailing Notice to Atty. Gen. (if applicable)~~

STATE OF MINNESOTA
MINNESOTA POLLUTION CONTROL AGENCY

In the Matter of the Proposed
Amendments of Rules Governing
the Management, Storage, Treatment,
and Disposal of Hazardous Waste,
Minn. Rules Pts. 7001.0640, 7045.0135,
7045.0141, 7045.0143, 7045.0484,
7045.0494, 7045.0518, 7045.0524,
7045.0602, 7045.0610, 7045.0620,
and 7045.0630

STATEMENT OF NEED
AND REASONABLENESS

I. INTRODUCTION

The subject of this proceeding is the amendment of the rules of the Minnesota Pollution Control Agency (hereinafter "Agency") governing the management, treatment, storage, and disposal of hazardous waste. These amendments to the State hazardous waste rules will incorporate five sets of amendments to the federal hazardous waste regulations promulgated by the U.S. Environmental Protection Agency (hereinafter "EPA"). The proposed amendments pertain to the following:

A. Ground water monitoring with regard to analyzing for contamination from regulated units at land-based hazardous waste treatment, storage, and disposal facilities. The proposed amendments would replace current ground water monitoring requirements to analyze for the general list of all constituents set out in Minn. Rules pt. 7045.0141 with new requirements to analyze for a specific ground water monitoring list of chemicals.

B. Financial responsibility requirements concerning liability coverage for owners and operators of hazardous waste treatment, storage, and disposal facilities. The proposed amendments allow the use of one additional financial mechanism for liability coverage: a corporate guarantee.

C. Interim status regulations for closing and providing post-closure care for hazardous waste surface impoundments. The proposed amendments

provide conformance between certain interim status requirements for surface impoundments and those requirements contained in the permitting rules.

D. Information requirements for Part B permit applications. The proposed amendments allow owners and operators of facilities that treat, store, or dispose of hazardous waste to conduct certain activities related to ground water corrective action after issuance of the permit if the owner or operator obtains such authorization from the Agency Commissioner.

E. The identification and listings of hazardous wastes. The proposed amendments correct the chemical nomenclature for a number of chemicals existing on the lists and adds Chemical Abstract Service (CAS) registry numbers to all chemicals listed.

EPA's version of these amendments were promulgated and published in the Federal Register on July 9, 1987 (see Exhibit 1); July 11, 1986 and November 18, 1987 (see Exhibits 2 and 3); March 19, 1987 (see Exhibit 4); June 22, 1987 (see Exhibit 5); and August 6, 1986 (see Exhibit 6), respectively. These requirements were promulgated by EPA under the authority of the Resource Conservation and Recovery Act (RCRA).

These State rule amendments are proposed pursuant to the Agency's authority under Minn. Stat. § 116.07, subd. 4 (1986).

This Statement of Need and Reasonableness is divided into seven parts. Following this introduction, Part II contains the Agency's explanation of the need for the proposed amendments. Part III discusses the reasonableness of the proposed amendments. Part IV documents how the Agency has considered the methods of reducing the impact of the proposed amendments on small businesses as required by Minn. Stat. § 14.115 (1986). Part V documents the economic factors the Agency considered in drafting the amendments as required by

Minn. Stat. § 116.07, subd. 6 (1986). Part VI sets forth the Agency's conclusion regarding the amendments. Part VII contains a list of the exhibits relied on by the Agency to support the proposed amendments. The exhibits are available for review at the Agency's offices at 520 Lafayette Road North, St. Paul, Minnesota 55155.

II. NEED FOR THE PROPOSED AMENDMENTS TO THE HAZARDOUS WASTE RULES

Minn. Stat. ch. 14 (1986) requires an agency to make an affirmative presentation of facts establishing the need for and reasonableness of the rules or amendments proposed. In general terms, this means that an agency must set forth the reasons for its proposal, and the reasons must not be arbitrary or capricious. However, to the extent that need and reasonableness are separate, need has come to mean that a problem exists which requires administrative attention and reasonableness means that the solution proposed by an agency is appropriate.

Need is a broad test that does not easily lend itself to evaluation of each proposed revision. In the broad sense, the need for amendments to the Agency's rules governing the management, treatment, storage, and disposal of hazardous waste has two bases: (1) the need for consistency with the federal hazardous waste regulations; and (2) the need for rules which provide protection of human health and the environment without unduly restricting normal commerce.

A. Need for Consistency with Federal Regulations.

In 1976, Congress adopted RCRA to regulate the management of hazardous waste. 42 U.S.C. § 6901 et seq. In adopting RCRA, Congress provided for eventual State control of the hazardous waste program and set up the mechanism for the EPA to grant authority to states to operate the program. In states that receive authorization, the state environmental agency administers the state program in lieu of the federal program. To receive and maintain authorization,

the state program must be "equivalent" to the federal program and consistent with federal or state programs applicable to other states. EPA has defined equivalent to mean that the state requirements are at least as stringent as federal requirements. In terms of consistency, EPA's goal is to achieve an integrated national program which requires that final state programs do not conflict with each other or with the federal program.

Minnesota received final authorization from EPA for its hazarous waste program pursuant to RCRA effective February 11, 1985. See 50 FR 3756 (January 28, 1985). A state with final authorization administers its hazardous waste program in lieu of the EPA program for those regulations which were promulgated pursuant to RCRA as adopted in 1976 and as amended in 1980. Federal regulations promulgated under RCRA are not in effect in Minnesota until the State rules are amended to incorporate the federal changes.

In order to maintain authorization to run the State program in lieu of the federal program, the State must enact equivalent requirements within specific timeframes when new, more stringent federal requirements are promulgated by EPA. The federal amendments pertaining to the ground water monitoring list, the interim status requirements for hazardous waste surface impoundments and the corrections to the hazardous waste lists are more stringent than the requirements in Minnesota's current hazardous waste rules and must be incorporated into the State program in order to maintain authorization. The federal amendments pertaining to corporate guarantees for liability coverage and corrective action information in the Part B permit application represent a less stringent level of regulation than provided by previous federal regulations and current State rules.

Although a state program may be more stringent than the federal requirements and states are not required to adopt less stringent federal standards, the Agency believes it is important to maintain as much consistency as possible between Minnesota's rules and the federal program. Much of the hazardous waste generated in Minnesota must be sent to other states for treatment or disposal because Minnesota has no commercial disposal facilities and only very limited commercial treatment facilities. This means that many generators must be knowledgeable about requirements of both the State and federal hazardous waste programs. The need to comply with multiple sets of rules makes compliance difficult. Therefore, to the extent it can be accomplished without posing a threat to human health and the environment, amendment of Minnesota's hazardous waste rules to incorporate EPA's amendments is desirable.

B. Need for Rules Protective of Human Health and the Environment.

The proposed amendments to the Minnesota hazardous waste rules provide protection of human health and the environment. The proposed amendments provide an appropriate level of protection of human health and the environment considering scientific evidence and technological factors.

III. REASONABLENESS OF THE PROPOSED AMENDMENTS TO THE HAZARDOUS WASTE RULES

The Agency is required by Minn. Stat. ch. 14 (1986) to make an affirmative presentation of facts establishing the reasonableness of the proposed rules or amendments. The Agency proposes to incorporate the federal amendments promulgated by EPA. A complete discussion of the reasonableness of the federal amendments is presented in Exhibits 1 to 7 listed in Part VII of this document, which are hereby incorporated by reference. The reasonableness of each of the proposed amendments is discussed below.

A. Minn. Rules Pt. 7001.0640 (Additional Part B Information Requirements for Surface Impoundments, Waste Piles, Land Treatment Units, and Landfills).

Minn. Rules pt. 7001.0640, subp. 1 is entitled "Ground Water Protection" and sets forth specific ground water information to be submitted with Part B of the permit application by owners or operators of hazardous waste surface impoundments, waste piles, land treatment units, and landfills. Item D, subitem 2 of subpart 1 requires the owner or operator to identify the concentration of each constituent listed in Minn. Rules pt. 7045.0141 in any plume of contamination that has entered the ground water from the regulated units. Minn. Rules pt. 7045.0143 entitled "Ground Water Protection Hazardous Constituents List" is being added to the hazardous waste rules, as discussed in section D, specifically for the purpose of being used for ground water protection requirements. Therefore, the Agency is amending subitem 2 to require the owner or operator to use the new core list of ground water constituents in Minn. Rules pt. 7045.0143, instead of the Minn. Rules pt. 7045.0141 list, for purposes of identifying the concentration of contaminants in any plume of contamination in the ground water. This amendment is reasonable because it addresses the addition of Minn. Rules pt. 7045.0143 which sets forth the constituents list to be used for ground water protection requirements specified in the rules. This amendment is equivalent to 40 Code of Federal Regulations (CFR) § 270.14(c)(4)(ii). The reasonableness of adding the Minn. Rules pt. 7045.0143 ground water constituents list to the rules is discussed in section D.

Minn. Rules pt. 7001.0640, subp. 2 is entitled "Corrective Action Program" and sets forth specific corrective action planning information to be submitted with Part B of the permit application by owners and operators of

hazardous waste surface impoundments, waste piles, land treatment units, and landfills. The required corrective action information is specified in items A through F of subpart 2. Item C requires the submittal of detailed plans and an engineering report describing the corrective action to be taken. Item D requires the submittal of a description of how the ground water monitoring program will assess the adequacy of the corrective action to be taken. The Agency is amending subpart 2 to allow the owner or operator to submit the information required in Items C and D, and described above, after permit issuance through schedules of compliance included in the permit. The amendment requires owners or operators to obtain advance written authorization from the Commissioner waiving these requirements if the information is to be submitted through a permit schedule of compliance.

Requiring detailed plans and engineering reports for a corrective action program in the Part B permit application many times creates delays in the timely issuance of land disposal permits due to the lengthy process of drafting and reviewing such studies and plans. These requirements can also cause inconsistencies in the timing and approach for corrective action for various units at the same facility because corrective action for other hazardous waste management units is normally undertaken after issuance of the permit. The Agency believes the amendment is reasonable because it provides for the timely issuance of land disposal permits and consistency in the approach for corrective action for various units at the same facility.

The amendments correspond to the federal amendments to 40 CFR § 270.14(c)(8)(v) with one exception. Existing Minn. Rules pt. 7045.0640, subp. 2 also requires an owner or operator to demonstrate feasibility of corrective action by submitting supporting information. This requirement

corresponds to the federal regulations. However, the federal amendments allowed owners or operators to submit the feasibility study after permit issuance if so authorized. The State amendments being proposed do not allow submittal of this information after permit issuance, and the State rules continue to require the feasibility information in the Part B permit application. The Agency has always required the corrective action feasibility information as a prerequisite for obtaining a permit. The Agency believes it is reasonable and appropriate to continue to receive the feasibility information in the Part B permit application in order to receive basic corrective action information before permit issuance.

B. Minn. Rules Pt. 7045.0135 (Lists of Hazardous Wastes).

Minn. Rules pt. 7045.0135 is entitled "Lists of Hazardous Wastes." The Agency is amending subpart 4 of this rule.

Subpart 4 lists chemicals which are hazardous wastes when they are discarded or intended to be discarded. In the August 6, 1986, Federal Register (51 FR 28296-28310) (Exhibit 6), the EPA published a number of corrections to the federal hazardous waste listings which included corrections to the listings of hazardous wastes when they are discarded or intended to be discarded. The Agency is amending subpart 4 to provide these corrections in Minnesota's hazardous waste rules. Minnesota's hazardous waste rules have always contained the same lists of wastes as the federal regulations, and when EPA adds or deletes a waste from the lists, the Agency has amended Minnesota's rules accordingly. No wastes are being added or deleted due to this amendment, but a number of existing entries are being changed to reflect the correct chemical nomenclature where previous errors existed.

In addition, the EPA has added CAS registry numbers for all listed wastes as part of the on-going review of the clarity and accuracy of the hazardous waste lists. The Agency is amending subpart 4 to add the CAS registry numbers in response to EPA's additions. The added CAS registry numbers do not change the effect of the rules, but provides an additional source of information regarding specific wastes for the regulated community.

The Agency believes it is reasonable to correct the chemical nomenclature of the existing listed hazardous wastes and to add their corresponding CAS registry numbers in order to provide clarity and accuracy in the hazardous waste rules. The corrections and additions provide equivalency with 40 CFR § 261.33.

C. Minn. Rules Pt. 7045.0141 (Hazardous Constituents).

Minn. Rules pt. 7045.0141 is a listing of hazardous constituents. The amendment to this part is the same, in effect, as the amendment to Minn. Rules pt. 7045.0135, subp. 4 (see section B). As was discussed in section B, on August 6, 1986, the EPA published a number of corrections to its listings of hazardous wastes and added the corresponding CAS registry numbers to all wastes listed. The amendment to Minn. Rules pt. 7045.0135, subp. 4 incorporated EPA's corrections and added the CAS registry numbers to all listed wastes.

In the August 6, 1986, publication, EPA also made corrections to its list of hazardous constituents and added the corresponding CAS registry numbers to all constituents listed. The Agency is amending Minnesota's hazardous waste rules to include both the corrections to the list of hazardous constituents and the CAS registry numbers for all listed constituents. This amendment is reasonable for the reasons presented in section B regarding the amendment to

Minn. Rules pt. 7045.0135, subp. 4. This amendment is equivalent to Appendix VIII of 40 CFR § 261.

D. Minn. Rules Pt. 7045.0143 (Ground Water Protection Hazardous Constituents List).

The Agency is amending the hazardous waste rules to provide a new part, Minn. Rules pt. 7045.0143, entitled "Ground Water Protection Hazardous Constituents List." This part provides a list of hazardous constituents to be used solely for ground water monitoring at hazardous waste facilities.

Under the existing rules, owners or operators of hazardous waste facilities are required to analyze their ground water to screen for contamination as part of their detection monitoring and compliance monitoring programs. The rules require the analysis of all hazardous constituents listed in Minn. Rules pt. 7045.0141.

While appropriate for hazardous waste listing purposes, the Minn. Rules pt. 7045.0141 hazardous constituents list has presented a number of problems when used for purposes of ground water monitoring. The Minn. Rules pt. 7045.0141 list contains some listings which are ambiguous and others which represent indefinitely large classes of compounds which do not normally appear in ground water as such. Also, many of the constituents listed in Minn. Rules pt. 7045.0141 dissociate or decompose when placed in water. Further, no analytical standards or analytical screening methods exist for many of the Minn. Rules pt. 7045.0141 constituents.

Because of the problems associated with the use of the existing hazardous constituents list for ground water monitoring purposes, EPA conducted several meetings with members of the scientific and laboratory communities to define an appropriate constituents list for purposes of ground water monitoring.

The ground water protection hazardous constituents list is the list they defined. The new ground water protection hazardous constituents list is made up of those constituents in Minn. Rules pt. 7045.0141 for which EPA has determined it is analytically feasible to analyze in ground water samples, plus 17 chemicals routinely monitored for in the Superfund program. The new core list is the product of extensive analytical testing of the constituents listed in Minn. Rules pt. 7045.0141 by the scientific and laboratory communities.

The new constituents list for ground water monitoring purposes is reasonable because it consists of those constituents for which it is analytically feasible to analyze in ground water. Also, the new list will allow owners or operators of hazardous waste facilities to better screen for ground water contamination by providing a more appropriate list of constituents for which to analyze. The addition of the ground water protection hazardous constituents list is equivalent to Appendix IX of 40 CFR § 261.

E. Minn. Rules Pt. 7045.0484 (Ground Water Protection).

Minn. Rules pt. 7045.0484, subp. 12 requires an owner or operator of a hazardous waste facility to establish a detection monitoring program by performing the activities specified in items A to K. Item H requires an owner or operator to perform the activities set out in subitems 1 to 5 if the owner or operator determines there is a statistically significant increase for monitoring parameters or hazardous constituents at any monitoring well at the compliance point. The Agency is amending subitems 2, 3, and 5(a) of item H.

Subitem 2 requires the owner or operator to sample the ground water in all monitoring wells and determine the concentration of all hazardous constituents present. As discussed in section B of this statement, a new ground water protection hazardous constituents list is being added to the

hazardous waste rules as a result of these amendments for the purposes of ground water protection requirements. The new list is set out in proposed Minn. Rules pt. 7045.0143. Therefore, the Agency is amending subitem 2 to require an owner or operator to sample the ground water and determine the concentration of the constituents listed in Minn. Rules pt. 7045.0143. The amendment is reasonable because it addresses the addition of proposed Minn. Rules pt. 7045.0143 which sets forth the constituents list to be used for ground water protection requirements specified in the rules. The amendment is equivalent to 40 CFR § 264.98(h)(2).

Subitem 3 requires an owner or operator to determine background values for all hazardous constituents present in monitoring wells at the compliance point. Subitem 3 is amended to reference the hazardous constituents identified in subitem 2 and discussed above. The amendment clarifies that background values are required for the hazardous constituents identified at the compliance point in subitem 2. Providing the reference to subitem 2 is reasonable because it assists the regulated community in locating applicable requirements in the rules and ensures that the Agency receives the relevant information pertaining to ground water monitoring. The amendment is equivalent to 40 CFR § 264.98(h)(3).

Subitem 5(a) specifies information an owner or operator is required to submit in a permit modification application. Subitem 5(a) requires an owner or operator to identify in the application the concentration of <u>any</u> hazardous constituent found in the ground water at each monnitoring well at the compliance point. Subitem 5(a) is amended to replace the word "any" with the word "each." The continued use of the word "any" in this requirement is inappropriate because an owner or operator is required under subitem 2, as

discussed above, to analyze their monitoring wells for the specific constituents set out in proposed Minn. Rules pt. 7045.0143. The use of the word "each" in this case is appropriate in this requirement. The amendment is reasonable because it clarifies the meaning of the requirement. The amendment is equivalent to 40 CFR § 264.98(h)(4)(i).

Minn. Rules pt. 7045.0484, subp. 13 requires an owner or operator of a hazardous waste facility to establish a compliance monitoring program by performing the activities specified in items A to K. Item E requires an owner or operator to sample the ground water in all monitoring wells and determine the concentration of all hazardous constituents present. The owner or operator is required to analyze the ground water annually thereafter to determine if additional constituents are present. As discussed in section B of this statement, a new ground water protection hazardous constituents list is being added to the hazardous waste rules as a result of these amendments for the purposes of ground water protection requirements. The new list is set out in proposed Minn. Rules pt. 7045.0143. The Agency is amending item E to require an owner or operator, when analyzing the ground water, to determine the concentration of the constituents listed in Minn. Rules pt. 7045.0143. The amendment is reasonable because it addresses the addition of proposed Minn. Rules pt. 7045.0143 which sets forth the constituents list to be used for ground water monitoring requirements specified in the rules. The amendment is equivalent to 40 CFR § 264.99(f).

F. Minn. Rules Pt. 7045.0494 (Notice to Local Land Authority).

Minn. Rules pt. 7045.0494, subp. 2 requires an owner or operator of a hazardous waste facility to submit postclosure notices to the local zoning authorities and the Commissioner within 60 days after certification of closure

of each hazardous waste disposal unit. Because of an editing oversight when adopting the existing rule, the word "days" does not appear in the "60 days" requirement to submit the notices. The amendment provides the word "days" to correct this error. The amendment is reasonable because it clarifies the language of the requirement.

G. Minn. Rules Pt. 7045.0518 (Liability Requirements).

Minn. Rules pt. 7045.0518 sets forth the liability coverage an owner or operator of a hazardous waste facility is required to demonstrate during the operating life of the facility for bodily injury and property damage to third parties resulting from facility operations.

Minn. Rules pt. 7045.0518, subp. 1 establishes the liability coverage an owner or operator is required to demonstrate for sudden accidental occurrences arising from the operations of their facility or facilities. The Agency is amending items B and C of subpart 1.

Item B of subpart 1 allows an owner or operator to demonstrate liability coverage for sudden accidental occurrences by passing the financial test for liability coverage set out in subpart 6. The Agency is amending subpart 1 to also allow the use of a corporate guarantee to demonstrate liability coverage for sudden accidental occurrences. Allowing the use of a corporate guarantee to demonstrate liability coverage for sudden accidental occurrences is reasonable because it facilitates compliance with the liability requirements by providing an additional mechanism by which to comply. Also, allowing the use of the corporate guarantee in this requirement is consistent with the existing financial assurance requirements for closure/postclosure care and corrective action, which allow the use of the corporate guarantee to fulfill

those requirements. The amendment is equivalent to 40 CFR § 264.147(a)(2). The reasonableness of the actual corporate guarantee requirements for liability coverage is discussed below in the discussion of proposed subpart 7 of this part.

Item C of subpart 1 allows an owner or operator to demonstrate liability coverage for sudden accidental occurrences by using a combination of the financial test and liability insurance. The Agency is amending item C to allow the owner or operator to also use a combination of a corporate guarantee and liability insurance. Allowing the use of a combination of a corporate guarantee and liability insurance is reasonable because it facilitates compliance with the liability requirements by providing an additional mechanism by which to comply. Also, allowing the combination is consistent with the existing financial assurance requirements for closure/postclosure care and corrective action, which also allow the combination. The amendment is equivalent to 40 CFR § 264.147(a)(3).

As discussed above, subpart 1 of Minn. Rules pt. 7045.0518 governs liability coverage for sudden accidental occurrences at hazardous waste facilities. Subpart 2 of Minn. Rules pt. 7045.0518 governs liability coverage for nonsudden accidental occurrences but is specific to owners or operators of surface impoundments, landfills, and land treatment facilities. The Agency is amending items B and C of subpart 2 in the same manner items B and C of subpart 1 are being amended. Item B is amended to allow the use of a corporate guarantee to demonstrate liability coverage for nonsudden accidental occurrences. Item C is amended to allow the use of a combination of a corporate guarantee and liability insurance to demonstrate liability coverage for nonsudden accidental occurrences. The reasonableness of these amendments is the same as that discussed above for the amendments to items B and C of subpart 1. The amendments to items B and C of subpart 2 are equivalent to 40 CFR § 264.147(b)(2) and (b)(3).

The Agency is also amending Minn. Rules pt. 7045.0518 to add subpart 7. Subpart 7 establishes the requirements for using a corporate guarantee for liability coverage.

Item A of proposed subpart 7 specifies several requirements. First, the guarantor must be the parent corporation of the owner or operator. This requirement is reasonable because such a guarantee would then be enforceable under State law, and because a guarantee by a third party, i.e. insurance, is already allowed under the rule. The requirement that a parent guarantee for its subsidiary is also reasonable because the parent corporation is interested in its subsidiaries' performance, and is in a better position than other corporate entities to ensure that the subsidiaries' facilities are being operated in conformance with the hazardous waste rules. Second, the guarantor (parent corporation) must pass the financial test specified in the rules. This amendment is reasonable because it will ensure that the parent corporation is financially able to execute its obligation to provide payment to third parties for injury or property damage should its subsidiary (facility owner or operator) default on making payment. Third, the wording of the corporate guarantee must be identical to the wording specified in the rules (proposed Minn. Rules pt. 7045.0524, subp. 8a). This requirement is reasonable because the wording of the corporate guarantee for liability coverage set out in proposed Minn. Rules pt. 7045.0524, subp. 8a is such that the corporate guarantee would be a legally valid and enforceable obligation. The reasonableness of the actual wording of a corporate guarantee for liability coverage is discussed in section H of this statement. Fourth, the guarantee must be signed by two corporate officers of the parent corporation, and a copy of a corporate resolution authorizing the parent corporation to enter into the guarantee must

be attached to the guarantee. These amendments are reasonable because the requirements ensure that the corporate guarantee is being executed with the knowledge and approval of the corporation as a whole and will be legally enforceable against the parent corporation. Lastly, a certified copy of the guarantee must be sent to the Agency Commissioner. This requirement is reasonable because it allows the Commissioner to assess the adequacy of the corporate guarantee and to determine compliance with the liability requirements. The amendments, excluding the amendments requiring two corporate officers to sign the guarantee and the attachment of the corporate resolution, are equivalent to 40 CFR § 264.147(g)(1).

Item A, subitem 1 of proposed subpart 7 requires that the corporate guarantee must provide that if the subsidiary (facility owner or operator) defaults on its primary obligation to provide payment to third parties who have sustained or may sustain bodily injury or property damage caused by sudden and/or nonsudden accidental occurrences arising from the operation of the subsidiary's facility, then the parent corporation (guarantor) is liable to the third parties for the obligation created by the guarantee. The requirement allows use of the corporate guarantee to fulfill liability requirements. The requirement reasonably allows a parent corporation to enter into a corporate guarantee by its own choice and specifies the consequences should its subsidiary default on payments to third parties for bodily injury or property damage. The amendment is equivalent to 40 CFR § 264.147(g)(1)(i).

Item A, subitem 2 of proposed subpart 7 establishes that the corporate guarantee will remain in force unless the guarantor (parent corporation) sends notice of cancellation to both the facility owner or operator and the Agency Commissioner and until the Agency Commissioner approves alternate liability

coverage. The amendment is reasonable because it will give notice to the facility owner or operator that a different means for complying with the liability requirements must be established. Also, the amendment ensures there will not be a lapse in liability coverage for the owner or operator. The amendment is equivalent to 40 CFR § 264.147(g)(1)(ii).

Item B of proposed subpart 7 specifies two additional criteria (subitems 1 and 2) to be met in order to use the corporate guarantee to demonstrate liability coverage. Item B, subitem 1 pertains to corporations incorporated in the United States. Subitem 1 establishes that a corporate guarantee may be used to demonstrate liability coverage only if the Attorney General or Insurance Commissioner of the state in which the parent corporation is incorporated and of each state in which a facility covered by the guarantee is located has submitted a written statement to the Agency Commissioner and EPA that a corporate guarantee for liability coverage, executed as required, is a legally valid and enforceable obligation in that state. Since the goal of the liability requirements is to provide the appropriate means for third parties to collect judgements for personal injury or property damage sustained, the amendment is reasonable because it provides the means for third parties to collect liability judgements by providing a financial responsibility mechanism which is binding and legally enforceable.

Item B, subitem 2 pertains to corporations incorporated outside the United States. Subitem 2 requires the foreign corporation to identify a registered agent in each state in which a facility covered by the guarantee is located and in the state in which its principal place of business is located. The Agency believes that under current case law the presence of the corporation's agent in combination with the activities of the corporation in the State will

subject it to the jurisdiction of the State's courts. Therefore, the requirement reasonably ensures that corporate guarantees for foreign corporations are enforceable. Subitem 2 also provides that the corporate guarantee may be used by foreign corporations only if the Attorney General or Insurance Commissioner of each state in which a facility covered by the guarantee is located and the state in which the foreign corporation has its principal place of business has submitted a statement to the Agency Commissioner and EPA that the guarantee, executed as required, is a legally valid and enforceable document in that state. This requirement reasonably ensures that third parties may collect judgements for personal injury or property damage sustained by providing an enforceable obligation.

H. Minn. Rules Pt. 7045.0524 (Wording of Instruments).

Minn. Rules pt. 7045.0524 specifies the wording that must be used by facility owners or operators and guarantor corporations in financial assurance instruments required to be submitted to the Agency. The Agency is amending subparts 6 and 7 and adding a subpart (subpart 8a). The amendment to subpart 6 corrects a typographical error existing in the rules. The amendment to subpart 7 and the addition of subpart 8a is being proposed in order to address the addition of the use of the corporate guarantee for liability coverage as discussed in section G of this statement.

Subpart 6 sets forth the language that a chief financial officer of a firm must include in the letter required to be submitted as part of the financial assurance requirements for corrective action, closure, and/or postclosure care at hazardous waste facilities. The chief financial officer is required to complete one of two financial worksheet alternatives for proving financial assurance and provide this information in the letter. The Agency has identified

a typographical error existing in worksheet Alternative II. Number 1 of Alternative II requires the chief financial officer to provide a figure for the sum amount of current corrective action, closure, and postclosure cost estimates. The existing rule language states that this amount is the sum of all cost estimates shown in the previous "four" paragraphs. The word "four" is in error. The proposed amendments change "four" to "five" which is the correct number of paragraphs the chief financial officer should consider in determining the sum total. The amendment is reasonable in order to provide correct information in the rules.

Subpart 7 sets forth the language that a chief financial officer of a firm must include in the letter required to be submitted to the Agency for liability coverage. As discussed in section G of this statement, the Agency is proposing to allow the use of the corporate guarantee to demonstrate liability coverage. In order to address the allowance of corporate guarantees for liability coverage, the appropriate financial instruments need to be amended accordingly. Therefore, subpart 7 is amended to provide the additional wording to be included in the chief financial officer's letter in order to address corporate guarantees for liability coverage. The amendment is reasonable because it ensures that the Agency will receive the appropriate information for assessing the adequacy of a corporate guarantee to meet the liability requirements. Also, the amendment corresponds to 40 CFR § 264.151(g).

Subpart 8a is being added to Minn. Rules pt. 7045.0524 as a result of these amendments. Subpart 8a sets forth the wording to be used in a corporate guarantee for liability coverage. The wording provides the terms of the guarantee including the recitals and exclusions. Providing the wording for the corporate guarantee for liability coverage is reasonable because it enables the regulated

community to understand the exact terms of choosing the corporate guarantee to fulfill liability requirements. Also, the wording is such that the corporate guarantee would be a legally valid and enforceable obligation for those using this mechanism. The wording is also equivalent to that provided for corporate guarantees for closure/postclosure care and corrective action currently set out in subpart 8 of this part, except that the corporate guarantee for liability coverage specifies exclusions specific to this type of guarantee. The wording coresponds to that provided in the federal regulations in 40 CFR § 264.151(h)(2) with one exception. The wording also requires the guarantee to be signed by two corporate officers of the parent corporation and a copy of a corporate resolution authorizing the parent corporation to enter into the guarantee to be attached to the guarantee. The reasonableness of these additions is discussed in section G of this statement.

I. Minn. Rules Pt. 7045.0602 (Postclosure Care and Use of Property).

Minn. Rules pt. 7045.0602, subp. 3 requires that the use of property in which hazardous wastes remain after closure must never disturb the containment system or the monitoring systems, unless the owner or operator can demonstrate in the postclosure plan or by petition that the disturbance meets the requirements specified. The existing language of this subpart erroneously provides the word "protection" instead of "petition." Therefore, the amendments replace the word "protection" with "petition." The amendment reasonably provides clarity in the requirement.

J. Minn. Rules Pt. 7045.0610 (Cost Estimate for Facility Closure).

Minn. Rules pt. 7045.0610, subp. 1 requires a facility owner or operator to prepare a closure cost estimate. Item B of subpart 1 disallows the owner or operator from including in the closure cost estimate any salvage value that

may be realized from the sale of specific items. The existing language of item B erroneously provides the word "scale" instead of "sale." The Agency is amending item B to replace the word "scale" with "sale." The amendment is reasonable because it provides clarity in the requirement by correcting a typographical error.

K. Minn. Rules Pt. 7045.0620 (Liability Requirements).

Minn. Rules pt. 7045.0620 establishes the liability requirements for owners and operators of hazardous waste facilities that are not permitted and are regulated under interim status. The amendments to this part are identical to the amendments to Minn. Rules pt. 7045.0518 which are discussed in section G of this statement. Minn. Rules pt. 7045.0518 governs permitted facilities.

Subpart 1, item B is amended to allow the use of a corporate guarantee to demonstrate liabilty coverage for sudden accidental occurrences arising from facility operations. This amendment directly corresponds to 40 CFR § 265.147(a)(2). A discussion of the reasonableness of this requirement is provided in section G of this statement.

Subpart 1, item C is amended to allow the use of a combination of the corporate guarantee and liability insurance to demonstrate liability coverage for sudden accidental occurences arising from facility operations. This amendment corresponds to 40 CFR § 265.147(a)(3). A discussion of the reasonableness of this requirement is provided in section G of this statement.

Subpart 2, item B is amended to allow the use of a corporate guarantee to demonstrate liability coverage for nonsudden accidental occurrences arising from facility operations. This amendment corresponds to 40 CFR § 265.147(b)(2). The reasonableness of this amendment is provided in section G of this statement.

Subpart 2, item C is amended to allow the use of a combination of the corporate guarantee and liability insurance to demonstrate liability coverage for nonsudden accidental occurrences arising from facility operations. This amendment corresponds to 40 CFR § 265.147(b)(3). The reasonableness of this amendment is provided in section G of this statement.

Subpart 7 is added to Minn. Rules pt. 7045.0620 to establish the requirements for using a corporate guarantee to demonstrate liability coverage. Since the requirements added by this amendment are identical to the amendments to Minn. Rules pt. 7045.0518, subp. 7 which are discussed in section G of this statement, a discussion of the requirements being added by this amendment is provided in section G of this statement. The amendment is equivalent to 40 CFR § 265.147(g)(2).

L. Minn. Rules Pt. 7045.0630 (Surface Impoundments).

Minn. Rules pt. 7045.0630, subp. 6 establishes interim status requirements for closing and providing postclosure care for hazardous waste surface impoundments. At closure, subpart 6 requires owners and operators of surface impoundments to choose between removing hazardous wastes and waste residues (and thus terminating responsibility for the unit) or retaining wastes and managing the unit as a landfill by conducting the necessary postclosure care specified.

Subpart 6 is amended to add six additional postclosure care requirements to be complied with by an owner or operator of a surface impoundment should they choose at closure to retain the hazardous wastes and manage the unit as a landfill. The additional requirements are proposed in item C, subitems 1, 2, and 3 and Item D, subitems 1, 2, and 3. The amendments provide that the owner or operator must: (1) eliminate free liquids by either removing or solidifying

them; (2) stabilize the remaining waste to support a final cover; (3) install a final cover to provide long-term minimization of infiltration into the closed impoundment; (4) maintain the integrity and effectiveness of the final cover; (5) maintain and check the ground water monitoring system; and (6) prevent run-on and run-off from eroding or damaging the final cover. The additional requirements are equivalent to 40 CFR § 265.228(a)(2) and (b). The addition of these requirements is reasonable because it is consistent with the overall closure performance standard requiring units to close in a manner that eliminates or minimizes the postclosure escape of hazardous constituents.

Subpart 6 is also being amended in another respect. As discussed above, subpart 6 allows a surface impoundment owner or operator at closure to choose to remove all hazardous waste and waste residues and thus terminate responsibility for the unit. Existing subpart 6 also allows the owner or operator to cease removal of hazardous wastes and contaminated soils if they can demonstrate that the materials remaining at any stage of the removal are no longer a hazardous waste. The Agency believes that allowing an owner or operator to cease removal once they have made such a demonstration allows significant and potentially harmful levels of hazardous constituents to remain in surface impoundments without subjecting the units to needed closure, postclosure, and monitoring requirements. For example, the existing rules allow residues from wastes that originally exhibited the characteristic of extraction procedure (EP) toxicity to remain in place if the residue was no longer EP toxic. This allows an environmentally significant quantity of hazardous constituents to remain that will receive no further monitoring or management. This is because EP toxicity criterion would preclude only a concentration that exceeds 100 times the drinking water standard. Therefore, constituents may remain at levels

significantly above the drinking water standards. If such constituents are close to the saturated zone, they may contaminate ground water at levels exceeding the ground water protection standard. Also, the residues may contain significant levels of other listed hazardous constituents not found through EP testing.

Therefore, the Agency is amending subpart 6, item B to no longer allow a surface impoundment owner or operator to cease removal of contaminated wastes by demonstrating what remains is no longer hazardous. The amendment is reasonable because it is consistent with the overall closure performance standard requiring units to close in a manner that eliminates or minimizes the post-closure escape of listed hazardous constituents. The amendment ensures that no listed constituent presents any threat to human health and the environment. The amendment is equivalent to 40 CFR § 265.228(a)(1).

IV. SMALL BUSINESS CONSIDERATIONS IN RULEMAKING

Minn. Stat. § 14.115, subd. 2 (1986) requires the Agency, when proposing amendments to existing rules which may affect small businesses, to consider the impact of the rule amendments on small business. However, the goal of Minn. Stat. ch. 116 (1986) is to protect the public health and welfare and the environment from the adverse effects which will result when hazardous waste is mismanaged. Application of less stringent standards to the hazardous wastes generated or managed by small businesses would be contrary to the Agency's mandate since small businesses' hazardous wastes can cause the same environmental harm as that of larger businesses.

The volume of hazardous waste generated by a business is not directly proportional to the size of the business. Many large businesses generate very small quantities of hazardous waste and conversely, a small business may generate a very large volume of hazardous waste. Therefore, it is not

reasonable to impose regulations based on the size of the business because this may have little relation to the potential for mismanagement or the extent of the adverse effects on human health and the environment if the waste is mismanaged.

The amendments are based on federal regulations promulgated under RCRA. The amendments pertaining to corporate guarantees for liability coverage and corrective action represent a less stringent level of regulation than currently exists in the rules. Therefore, these amendments provide a less stringent form of regulation for small businesses than currently exists. The amendments pertaining to ground water monitoring, interim status surface impoundment requirements, and corrections to the lists of hazardous wastes are considered to be more stringent than the regulations that currently exist. While these more stringent amendments are not yet in effect in Minnesota, the amendments must eventually be incorporated into the State rules and must be equivalent to the federal level of regulation. Incorporation of these requirements into the State rules will not impose any additional requirements on small businesses that would not be imposed under the federal program.

Therefore, the Agency believes that these additional regulations are justifiable and do not present an unreasonable burden to small businesses that may be subject to these requirements.

V. CONSIDERATION OF ECONOMIC FACTORS

In exercising its powers, the Agency is required by Minn. Stat. § 116.07, subd. 6 (1986) to give due consideration to economic factors. The statute provides:

> In exercising all its powers the Pollution Control Agency shall give due consideration to the establishment, maintenance, operation, and expansion of business, commerce, trade, industry, traffic, and other economic factors and other material matters affecting the feasibility and practicability of any proposed action, including, but not limited to, the burden on a municipality of any tax which may result therefrom, and shall take or provide for such action as may be reasonable, feasible, and practical under the circumstances.

In proposing the requirements of these amendments, the Agency has given due consideration to available information as to any economic impacts the proposed amendments would have. Since the amendments pertaining to corporate guarantees for liability coverage and corrective action represent less stringent regulation than currently exists, these particular amendments will not place any additional economic burden on the regulated community. The amendments pertaining to ground water monitoring and corrections to the hazardous wastes lists will also place no additional economic burden on the regulated community, since these amendments are provided to instill clarity and applicableness in the rules. The amendments pertaining to interim status surface impoundments will have some economic impacts for owners and operators of these hazardous waste units. The amendments are based on federal regulations promulgated under RCRA. Incorporation of these provisions into the State rules will not impose any additional requirements on the owners and operators of interim status hazardous waste surface impoundments that would be imposed if Minnesota's rules were not equivalent.

VI. CONCLUSION

The Agency has, in this document and its exhibits, made its presentation of facts establishing the need for and reasonableness of the proposed amendments to Minnesota's hazardous waste rules. This document constitutes the Agency's Statement of Need and Reasonableness for the proposed amendments to the hazardous waste rules.

VII. LIST OF EXHIBITS

The Agency is relying on the following documents to support these amendments:

Agency Ex. No.	Title
1	Federal Register, Vol. 52, No. 131, Pages 25942-25953, July 9, 1987.
2	Federal Register, Vol. 51, No. 133, Pages 25350-25356, July 11, 1986.
3	Federal Register, Vol. 52, No. 222, Pages 44314-44321, November 18, 1987.
4	Federal Register, Vol. 52, No. 53, Pages 8704-8709, March 19, 1987.
5	Federal Register, Vol. 52, No. 119, Pages 23447-23450, June 22, 1987.
6	Federal Register, Vol. 51, No. 151, Pages 28296-28310, August 6, 1986.
7	Memorandum to Minnesota Pollution Control Agency staff from the Minnesota Attorney General's staff dated March 24, 1988.

DATE: April 15,1988

for Barbara Lindsay Weiss
Gerald L. Willet
Commissioner

STATE OF MINNESOTA
POLLUTION CONTROL AGENCY

In the Matter of the Proposed Rule Amendments Governing the Management of Hazardous Waste, Minn. Rules Pts. 7001.0640, 7045.0135, 7045.0141, 7045.0143, 7045.0484, 7045.0494, 7045.0518, 7045.0524, 7045.0602, 7045.0610, 7045.0620, and 7045.0630

FINDINGS OF FACT, CONCLUSIONS, AND ORDER ADOPTING RULES

The above-entitled matter came on for decision before the Minnesota Pollution Control Agency (MPCA) on the twenty-sixth day of July, 1988. After affording all interested persons the opportunity to present written and oral data, statements and arguments to the MPCA, in accordance with statutory requirements regarding the adoption of noncontroversial rules, after considering the Statement of Need and Reasonableness, after considering all of the evidence adduced upon the records, files and proceedings herein, the MPCA, being fully advised in the premises, hereby adopts the following Findings of Fact, Conclusions, and Order:

FINDINGS OF FACT

1. Notice of the MPCA's intent to adopt the above-entitled rule amendments without a public hearing was published in the State Register on May 16, 1988 (12 SR 2449), and was sent by mail to all persons on the list maintained by the MPCA pursuant to Minn. Stat. § 14.14, subd. 1a. and 14.22 (1986) on May 13, 1988.

2. The Statement of Need and Reasonableness was prepared prior to mailing and publication of the notice and was made available to the public.

3. All persons were given the opportunity to submit comments on the proposed rule amendments for 30 days after notice of proposed rulemaking. The 30 day comment period, as set out in the notice, expired on June 16, 1988.

4. No requests for public hearing were received during the comment period.

5. No requests for notice of submission to the Attorney General were received by the MPCA.

6. During the comment period, the MPCA received two written comments, one in the form of an MPCA staff memorandum to the file, dated June 16, 1988, and one in a letter from the U.S. Environmental Protection Agency (EPA) - Region V, dated June 16, 1988. Each of these comments is addressed below.

A. Staff Memorandum

The staff memorandum identified two corrections needed in the proposed amendments as published in the State Register (12 SR 2449-2500) on May 16, 1988. The corrections do not alter the effect of the rules as proposed and do not constitute a substantial change.

(1) Minn. Rules pt. 7001.0640, subp. 2.

The first correction is in the proposed amendment to Minn. Rules pt. 7001.0640, subp. 2. The current rule requires owners or operators of surface impoundments, waste piles, land treatment units, and landfills to submit detailed plans and engineering reports for a corrective action program in the Part B permit application. See Minn. Rules pt. 7001.0640, subp. 2. The proposed amendment to Minn. Rules pt. 7001.0640, subp. 2 allows the owner or operator to submit the detailed plans and engineering report after permit issuance through a schedule of compliance included in the permit, if written authorization to do so is obtained "from the Commissioner before submitting the permit application." The word "complete" is added before the words "permit application" in the proposed amendments in order to provide for the intent of the rule and equivalency with the federal requirements.

Minn. Rules pt. 7001.0640, subp. 2 is modified to read:

subp. 2. Corrective action program. The owner or operator of a hazardous waste surface impoundment, waste pile, land treatment unit, or landfill shall submit to the commissioners with Part B of the permit application sufficient information, supporting data, and analyses to establish a corrective action program that meets the requirements of part 7045.0484, subpart 14. The submittal must demonstrate that corrective action is feasible if the groundwater protection standard is exceeded. To demonstrate compliance with part 7045.0484, subpart 14, the owner or operator shall address the following items:

A. through F. [Unchanged.]

The permit may contain a schedule for submittal of the information required in items C and D if the owner or operator obtains written authorization from the commissioner before submitting the <u>complete</u> permit application.

(2) Minn. Rules pts. 7045.0135, subp. 4 and 7045.0141.

The second correction is in the proposed amendments to Minn. Rules pts. 7045.0135, subp. 4 and 7045.0141. Minn. Rules pt. 7045.0135, subp. 4 currently provides a listing of chemicals which are hazardous when discarded or intended to be discarded. Minn. Rules pt. 7045.0141 currently provides a listing of hazardous constituents. See Minn. Rules pts. 7045.0135, subp. 4 and 7045.0141. The proposed amendments to Minn. Rules pts. 7045.0135, subp. 4 and 7045.0141 provide technical corrections and clarifications to the lists of hazardous wastes and constituents so that it is easier for people using the lists

to identify their wastes. Specifically, the proposed amendments correct the chemical nomenclature of a number of entries currently existing on the lists of hazardous wastes and constituents. The proposed amendments were equivalent to the federal regulations.

However, EPA published further corrections and clarifications to the federal lists of hazardous wastes and constituents in the April 22, 1988, Federal Register. The proposed amendments are modified to incorporate the April 22, 1988, corrections and clarifications. There are not any hazardous wastes or constituents added or deleted as a result of these modifications. Rather, the chemical nomenclature of a number of existing entries is corrected to reflect the form technically useful and accepted by the laboratory and scientific communities for identifying hazardous wastes. Hazardous waste numbers are also added as a clarification tool to assist those using the lists in identifying hazardous wastes. The corrections and clarifications provided to the lists of hazardous wastes and constituents do not change the regulatory nature of the State rules. The changes merely provide accuracy and clarity to the existing lists of hazardous wastes and constituents.

B. EPA Letter

The EPA letter contained three comments regarding the proposed amendments. Two of the comments are redundant to comments made in the MPCA staff memorandum regarding Minn. Rules pts. 7001.0640, subp. 2, 7045.0135, subp. 4, and 7045.0141. See section 6A. above for a discussion of these two comments. The MPCA is modifying the proposed rules to reflect these two comments. EPA's third comment requires a modification to proposed Minn. Rules pt. 7045.0143, subp. 5, item L.

Minn. Rules pt. 7045.0143, subp. 5, item L.

EPA's third comment identifies a typographical error existing in proposed Minn. Rules pt. 7045.0143, subp. 5, item L. Proposed Minn. Rules pt. 7045.0143 provides a ground water monitoring hazardous constituents list. A typographical error exists in the name of the hazardous constituent listed in proposed Minn. Rules pt. 7045.0143, subp. 5, item L. An "o" is added before the name "-Dichlorobenzene" to provide the correct chemical nomenclature for this hazardous constituent. The correction also provides equivalency with the federal regulations.

Minn. Rules pt. 7045.0143, subp. 5, item L is modified to read:

L. o-Dichlorobenzene, 95-50-1;

7. Based on the foregoing and the information provided by the MPCA staff memorandum and the EPA comment letter, the MPCA finds the corrections to the proposed rule amendments are justified and reasonable.

8. The MPCA adopts the Statement of Need and Reasonableness, in its entirety, as the factual basis for the proposed amendments to the rules. The MPCA hereby incorporates the Statement of Need and Reasonableness into these findings.

9. The above-captioned rule amendments, together with the modifications made by the MPCA in the above-findings to respond to comments received during the comment period, are needed and reasonable.

CONCLUSIONS

1. The MPCA duly acquired and has jurisdiction over this proceeding.

2. The MPCA published and served due, timely, and adequate notice of the intent to adopt amendments to the rules without a public hearing.

3. All relevant legal and procedural requirements of statute and rule have been complied with.

4. The modifications to the proposed amendments to the rules are supported by the record and do not result in a substantial change in the proposed amendments to the rules.

ORDER

NOW, THEREFORE, IT IS ORDERED, that the attached amendments to Minn. Rules pts. 7001.0640, 7045.0135, 7045.0141, 7045.0143, 7045.0484, 7045.0494, 7045.0518, 7045.0524, 7045.0602, 7045.0610, 7045.0620, and 7045.0630, governing the management of hazardous waste, are adopted pursuant to the authority vested in the MPCA by Minn. Stat. § 116.07, subd. 4 (1986).

Gerald L. Willet

Dated: July 26, 1988

Gerald L. Willet
Commissioner

STATE OF MINNESOTA
POLLUTION CONTROL AGENCY

In the Matter of the Proposed Rule Amendments Governing the Management of Hazardous Waste, Minn. Rules Pts. 7001.0640, 7045.0135, 7045.0141, 7045.0143, 7045.0484, 7045.0494, 7045.0518, 7045.0524, 7045.0602, 7045.0610, 7045.0620, and 7045.0630

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subp. 2. Corrective action program. The owner or operator of a hazardous waste surface impoundment, waste pile, land treatment unit, or landfill shall submit to the commissioners with Part B of the permit application sufficient information, supporting data, and analyses to establish a corrective action program that meets the requirements of part 7045.0484, subpart 14. The submittal must demonstrate that corrective action is feasible if the groundwater protection standard is exceeded. To demonstrate compliance with part 7045.0484, subpart 14, the owner or operator shall address the following items:

A. through F. [Unchanged.]

The permit may contain a schedule for submittal of the information required in items C and D if the owner or operator obtains written authorization from the commissioner before submitting the <u>complete</u> permit application.

(2) Minn. Rules pts. 7045.0135, subp. 4 and 7045.0141.

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to identify their wastes. Specifically, the proposed amendments correct the chemical nomenclature of a number of entries currently existing on the lists of hazardous wastes and constituents. The proposed amendments were equivalent to the federal regulations.

However, EPA published further corrections and clarifications to the federal lists of hazardous wastes and constituents in the April 22, 1988, Federal Register. The proposed amendments are modified to incorporate the April 22, 1988, corrections and clarifications. There are not any hazardous wastes or constituents added or deleted as a result of these modifications. Rather, the chemical nomenclature of a number of existing entries is corrected to reflect the form technically useful and accepted by the laboratory and scientific communities for identifying hazardous wastes. Hazardous waste numbers are also added as a clarification tool to assist those using the lists in identifying hazardous wastes. The corrections and clarifications provided to the lists of hazardous wastes and constituents do not change the regulatory nature of the State rules. The changes merely provide accuracy and clarity to the existing lists of hazardous wastes and constituents.

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Minn. Rules pt. 7045.0143, subp. 5, item L is modified to read:

L. o-Dichlorobenzene, 95-50-1;

7. Based on the foregoing and the information provided by the MPCA staff memorandum and the EPA comment letter, the MPCA finds the corrections to the proposed rule amendments are justified and reasonable.

8. The MPCA adopts the Statement of Need and Reasonableness, in its entirety, as the factual basis for the proposed amendments to the rules. The MPCA hereby incorporates the Statement of Need and Reasonableness into these findings.

9. The above-captioned rule amendments, together with the modifications made by the MPCA in the above-findings to respond to comments received during the comment period, are needed and reasonable.

CONCLUSIONS

1. The MPCA duly acquired and has jurisdiction over this proceeding.

2. The MPCA published and served due, timely, and adequate notice of the intent to adopt amendments to the rules without a public hearing.

3. All relevant legal and procedural requirements of statute and rule have been complied with.

4. The modifications to the proposed amendments to the rules are supported by the record and do not result in a substantial change in the proposed amendments to the rules.

ORDER

NOW, THEREFORE, IT IS ORDERED, that the attached amendments to Minn. Rules pts. 7001.0640, 7045.0135, 7045.0141, 7045.0143, 7045.0484, 7045.0494, 7045.0518, 7045.0524, 7045.0602, 7045.0610, 7045.0620, and 7045.0630, governing the management of hazardous waste, are adopted pursuant to the authority vested in the MPCA by Minn. Stat. § 116.07, subd. 4 (1986).

Gerald L. Willet

Dated: July 26, 1988

Gerald L. Willet
Commissioner

Pollution Control Agency

Proposed Permanent Rules Relating to Hazardous Waste; Corrective Action, Guarantees, Interim Status, Groundwater, and Lists

Rule as Proposed

7001.0640 ADDITIONAL PART B INFORMATION REQUIREMENTS FOR SURFACE IMPOUNDMENTS, WASTE PILES, LAND TREATMENT UNITS, AND LANDFILLS.

Subpart 1. Groundwater protection. The additional information designated in items A to G regarding protection of groundwater is required from owners or operators of hazardous waste surface impoundments, waste piles, land treatment units, and landfills, except as otherwise provided in part 7045.0484, subpart 1, item B, and must be submitted with Part B of the permit application. The following information is in addition to the information requirements of parts 7001.0560, 7001.0590, 7001.0600, 7001.0610, and 7001.0620:

A. to C. [Unchanged.]

D. A description of any plume of contamination that has entered the groundwater from a regulated unit at the time that the application is submitted that:

(1) [Unchanged.]

(2) identifies the concentration of each constituent listed in part ~~7045.0141~~ 7045.0143 throughout the plume or identifies the maximum concentrations of each such constituent in the plume. The commissioner may require this information on additional constituents if waste managed at the facility has met the characteristic of toxicity as defined in part 7045.0131, subpart 6.

E. to G. [Unchanged.]

Subp. 2. Corrective action program. The owner or operator of a hazardous waste surface impoundment, waste pile, land treatment unit, or landfill shall submit to the commissioner with Part B of the permit application sufficient information, supporting data, and analyses to establish a corrective action

Approved by Revisor DSM

program that meets the requirements of part 7045.0484, subpart 14. The submittal must demonstrate that corrective action is feasible if the groundwater protection standard is exceeded. To demonstrate compliance with part 7045.0484, subpart 14, the owner or operator shall address the following items:

A. to F. [Unchanged.]

The permit may contain a schedule for submittal of the information required in items C and D if the owner or operator obtains written authorization from the commissioner before submitting the permit application.

7045.0135 LISTS OF HAZARDOUS WASTES.

Subpart 1. to 3. [Unchanged.]

Subp. 4. **Discarded commercial chemical products, off-specification species, containers, and spill residues.** The following materials or items are hazardous wastes when they are discarded or intended to be discarded; when they are mixed with waste oil or used oil or other material and applied to the land for dust suppression or road treatment; or when, in lieu of their original use, they are produced for use as, or as a component of a fuel, distributed for use as a fuel, or burned as a fuel.

A. to D. [Unchanged.]

E. the commercial chemical products or manufacturing chemical intermediates, or off-specification commercial chemical products or manufacturing chemical intermediates referred to in items A to D and listed in subitems (1) to (17), are identified as acute hazardous wastes (H) and are subject to the small quantity exclusion defined in part 7045.0219, subpart 1, items B and C. The primary hazardous properties of these materials have been indicated by the letters T (toxicity), and R (reactivity). Absence of a letter indicates that the compound is listed only for acute toxicity. These wastes and their corresponding hazardous waste numbers, chemical abstracts numbers, if known, and hazard codes are listed in subitems (1) to (17).

(1) Hazardous wastes from commercial chemical

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products beginning with the letter A:

(a) P023, 107-20-0, Acetaldehyde, chloro-;

(b) P002, 591-08-2, Acetamide, N-(aminothioxomethyl)-;

(c) P057, 640-19-7, Acetamide, 2-fluoro-;

(d) P058, 62-74-8, Acetic acid, fluoro-, sodium salt;

(e) P066, 16752-77-5, Acetimidic acid, N-[(methylcarbamoyl)oxy] thio-, methyl ester;

~~(f) P001, 3-(alpha-Acetonylbenzyl)-4-hydroxycoumarin-and-salts-when present-at-concentrations-greater-than-0.3-percent;~~

~~(g)~~ P002, 591-08-2, 1-Acetyl-2-thiourea;

~~(h)~~ (g) P003, 107-02-8, Acrolein;

~~(i)~~ (h) P070, 116-06-3, Aldicarb;

~~(j)~~ (i) P004, 309-00-2, Aldrin;

~~(k)~~ (j) P005, 107-18-6, Allyl alcohol;

~~(l)~~ (k) P006, 20859-73-8, Aluminum phosphide: (R,T);

~~(m)~~ (l) P007, 2763-96-4, 5-(Aminomethyl)-3-isoxazolol;

~~(n)~~ (m) P008, ~~4-Aminopyridine~~ 504-24-5, 4-alpha-Aminopyridine;

~~(o)~~ (n) P009, 131-74-8, Ammonium picrate: (R);

~~(p)~~ (o) P119, 7803-55-6, Ammonium vanadate;

~~(q)~~ (p) P010, 7778-39-4, Arsenic acid;

~~(r)~~ (q) P012, 1327-53-3, Arsenic ~~(III)~~ oxide As_2O_3;

~~(s)~~ (r) P011, 1303-28-2, Arsenic ~~(V)~~ oxide As_2O_5;

~~(t)~~ (s) P011, 1303-28-2, Arsenic pentoxide;

~~(u)~~ (t) P012, 1327-53-3, Arsenic trioxide;

~~(v)~~ (u) P038, 692-42-2, Arsine, diethyl; and

(v) P036, 696-28-6, Arsonous dichloride, phenyl-; and

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(w) P054, 151-56-4, Aziridine.

(2) Hazardous wastes from commercial chemical products beginning with the letter B:

(a) P013, 542-62-1, Barium cyanide;

(b) P024, 106-47-8, Benzenamine, 4-chloro-;

(c) P077, 100-01-6, Benzenamine, 4-nitro-;

(d) P028, 100-44-7, Benzene, (chloromethyl)-;

(e) P042, 51-43-4, 1,2-Benzenediol, 4-[1-hydroxy-2-(methylamino)ethyl]-: (R);

(f) P046, 122-09-8, Benzeneethanamine, alpha, alpha-dimethyl-;

~~(f)~~ (g) P014, 108-98-5, Benzenethiol;

~~(g)~~ (h) P001, 81-81-2, 2H-1-Benzopyran-2-one, 4-hydroxy-3-(3-oxo-1-phenylbutyl)-, and salts;

(i) P028, 100-44-7, Benzyl chloride;

~~(h)~~ (j) P015, 7440-41-7, Beryllium dust;

~~(i)~~ (k) P016, 542-88-1, Bis(chloromethyl) ether;

~~(j)~~ (l) P017, 598-31-2, Bromoacetone; and

~~(k)~~ (m) P018, 357-57-3, Brucine.

(3) Hazardous wastes from commercial chemical products beginning with the letter C:

(a) P021, 592-01-8, Calcium cyanide;

~~(b) P123, Camphene, octachloro-;~~

~~(c) P103, Carbamimidoselenoic acid;~~

~~(d)~~ P022, 75-15-0, Carbon bisulfide;

~~(e)~~ (c) P022, 75-15-0, Carbon disulfide;

~~(f)~~ (d) P095, ~~Carbonyl chloride~~ 75-44-5, Carbonic dichloride;

~~(g) P033, Chlorine cyanide;~~

~~(h)~~ (e) P023, 107-20-0, Chloroacetaldehyde;

~~(i)~~ (f) P024, 106-47-8, p-Chloroaniline;

~~(j) P026, 1-(o-Chlorophenyl)thiourea;~~

~~(k) P027, 3-Chloropropionitrile;~~

~~(l)~~ (g) P029, 544-92-3, Copper cyanides;

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~~(m)~~ (h) P030, ..., Cyanides (soluble cyanide salts), not ~~elsewhere~~ otherwise specified;

~~(n)~~ (i) P031, 460-19-5, Cyanogen; and

~~(o)~~ (j) ~~P~~033, 506-77-4, Cyanogen chloride; and

(k) P034, 131-89-5, 2-Cyclohexyl-4,6-dinitrophenol.

(4) Hazardous wastes from commercial chemical products beginning with the letter D:

(a) P036, 696-28-6, Dichlorophenylarsine;

(b) P037, 60-57-1, Dieldrin;

(c) P038, 692-42-2, Diethylarsine;

(d) ~~P039, O,O-Diethyl-S-(2-(ethylthio)ethyl)~~ phosphorodithioate;

~~(e)~~ P041, 311-45-5, Diethyl-p-nitrophenyl phosphate;

~~(f)~~ (e) P040, 297-97-2, O,O-Diethyl O-pyrazinyl phosphorothioate;

~~(g)~~ (f) P043, 55-91-4, Diisopropyl fluorophosphate (DEP);

(g) P004, 309-00-2, 1,4:5,8-dimethanonaphthalene, 1,2,3,4,10,10-hexachloro-1,4,4a,5,8,8a-hexahydro-, (1alpha, 4alpha, 4abeta, 5alpha, 8alpha, 8abeta)-;

(h) P060, 465-73-6, 1,4:5,8-dimethanonaphthalene, 1,2,3,4,10,10-hexachloro-1,4,4a,5,8,8a-hexahydro-, (1alpha, 4alpha, 4abeta, 5beta, 8beta, 8abeta)-;

(i) P037, 60-57-1, 2,7:3,6-dimethanonaphth[2,3b]oxirane, 3,4,5,6,9,9-hexachloro-1a,2,2a,3,6,6a,7,7a-octahydro-, (1aalpha, 2beta, 2aalpha, 3beta, 6beta, 6aalpha, 7beta, 7aalpha)-;

(j) P051, 72-20-8, 2,7:3,6-dimethanonaphth[2,3b]oxirane, octahydro-, (1aalpha, 2beta, 2abeta, 3alpha, 6alpha, 6abeta, 7beta, 7aalpha)-;

~~(h)~~ (k) P044, 60-51-5, Dimethoate;

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~~(i)~~ (l) P045, 39196-18-4, 3,3-Dimethyl-1-(methylthio)-2-butanone, O-[(methylamino)carbonyl] oxime;

~~(j) P071, O,O-Dimethyl-O-p-nitrophenyl phosphorothioate;~~

~~(k) P082, Dimethylnitrosamine;~~

~~(l)~~ (m) P046, 122-09-8, alpha, alpha-Dimethylphenethylamine;

~~(m)~~ (n) P047, 534-52-1, 4,6-Dinitro-o-cresol and salts;

~~(n) P034, 4,6-Dinitro-o-cyclohexylphenol;~~

(o) P048, 51-28-5, 2,4-Dinitrophenol;

(p) P020, 88-85-7, Dinoseb;

(q) P085, 152-16-9, Diphosphoramide, octamethyl-;

(r) P039, 298-04-4, Disulfoton; and

(s) P049, 541-53-7, 2,4-Dithiobiuret; ~~and~~

~~(t) P109, Dithiopyrophosphoric acid, tetraethyl-ester.~~

(5) Hazardous wastes from commercial chemical products beginning with the letter E:

(a) P050, 115-29-7, Endosulfan;

(b) P088, ~~Endothall~~ 145-73-3, Endothal;

(c) P051, 72-20-8, Endrin;

(d) P042, 51-43-4, Epinephrine;

~~(e) P046, Ethanamine, 1,1-dimethyl-2-phenyl-;~~

~~(f) P084, Ethenamine, N-methyl-N-nitroso-;~~

~~(g)~~ P101, 107-12-0, Ethyl cyanide; and

~~(h)~~ (f) P054, Ethylenimine 151-56-4, Ethyleneimine.

(6) Hazardous wastes from commercial chemical products beginning with the letter F:

(a) P097, 52-85-7, Famphur;

(b) P056, 7782-41-4, Fluorine;

(c) P057, 640-19-7, Fluoroacetamide;

(d) P058, 62-74-8, Fluoroacetic acid, sodium

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salt; and

(e) P065, 628-86-4, Fulminic acid, ~~mercury(II) salt~~ mercury(2+)salt: (R,T).

(7) Hazardous wastes from commercial chemical products beginning with the letter H:

(a) P059, 76-44-8, Heptachlor;

~~(b) P051, 1,2,3,4,10,10-Hexachloro-6,7-epoxy-1,4,4a,5,6,7,8,8a-octahydro-endo,endo-1,4:5,8-dimethanonaphthalene,~~

~~(c) P037, 1,2,3,4,10,10-Hexachloro-6,7-epoxy-1,4,4a,5,6,7,8,8a-octahydro-endo,exo-1,4:5,8-dimethanonaphthalene,~~

~~(d) P060, 1,2,3,4,10,10-Hexachloro-1,4,4a,5,8,8a-hexahydro-1,4:5,8-endo,endo-dimethanonaphthalene,~~

~~(e) P004, 1,2,3,4,10,10-Hexachloro-1,4,4a,5,8,8a-hexahydro-1,4:5,8-endo,exo-dimethanonaphthalene,~~

~~(f) P060, Hexachlorohexahydro-endo,endo-dimethanonaphthalene,~~

~~(g)~~ P062, 757-58-4, Hexaethyltetraphosphate;

~~(h)~~ (c) P116, 79-19-6, Hydrazinecarbothioamide;

~~(i)~~ (d) P068, 60-34-4, Hydrazine, methyl-;

~~(j)~~ (e) P063, 74-90-8, Hydrocyanic acid;

~~(k)~~ (f) P063, 74-90-8, Hydrogen cyanide; and

~~(l)~~ (g) P096, 7803-51-2, Hydrogen phosphide.

(8) Hazardous wastes from commercial chemical products beginning with the letter I:

(a) P064, 624-83-9, Isocyanic acid, methyl ester; and

(b) P060, 465-73-6, Isodrin; and

(c) P007, 2763-96-4, 3(2H)-Isoxazolone, 5-(aminomethyl)-.

(9) Hazardous wastes from commercial chemical products beginning with the letter M:

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(a) P092, 62-38-4, Mercury, (acetato-O)phenyl-;

(b) P065, 628-86-4, Mercury fulminate: (R,T);

(c) P082, 62-75-9, Methamine, N-methyl-N-nitroso-;

(d) P016, 542-88-1, Methane, oxybis(chloro)-;

~~(d)~~ (e) P112, 509-14-8, Methane, tetranitro-: (R);

~~(e)~~ (f) P118, 75-70-7, Methanethiol, trichloro-;

(g) P050, 115-29-7, 6,9-Methano-2,4,3-benzodioxathiepen, 6,7,8,9,10,10-hexachloro-1,5,5a,6,9,9a-hexahydro-, 3-oxide;

~~(f)~~ (h) P059, 76-44-8, 4,7-Methano-1H-indene, 1,4,5,6,7,8,8-heptachloro-3a,4,7,7a-tetrahydro-;

~~(g)~~ (i) P066, 16752-77-5, Methomyl;

~~(h)~~ (j) P067, 75-55-8, 2-Methylaziridine;

~~(i)~~ (k) P068, 60-34-4, Methyl hydrazine;

~~(j)~~ (l) P064, 624-83-9, Methyl isocyanate;

~~(k)~~ (m) P069, 75-86-5, 2-Methyllactonitrile; and

~~(l)~~ (n) P071, 298-00-0, Methyl parathion.

(10) Hazardous wastes from commercial chemical products beginning with the letter N:

(a) P072, 86-88-4, alpha-Naphthylthiourea;

(b) P073, 13463-39-3, Nickel carbonyl;

(c) P073, 13463-39-3, Nickel carbonyl, (T-4)-;

(d) P074, 557-19-7, Nickel cyanide;

~~(d) P074, Nickel (II) cyanide;~~

~~(e) P073, Nickel tetracarbonyl;~~

~~(f)~~ (e) P075, 54-11-5, Nicotine and salts;

~~(g)~~ (f) P076, 10102-43-9, Nitric oxide;

~~(h)~~ (g) P077, 100-01-6, p-Nitroaniline;

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~~(i)~~ (h) P078, 10102-44-0, Nitrogen dioxide;

~~(j)~~ (i) P076, ~~Nitrogen(II)~~ 10102-43-9, Nitrogen oxide NO;

~~(k)~~ (j) P078, ~~Nitrogen(IV)~~ 10102-44-0, Nitrogen oxide NO_2;

~~(l)~~ (k) P081, ~~Nitroglycerin~~ 55-63-0, Nirtoglycerine: (R);

~~(m)~~ (l) P082, 62-75-9, N-Nitrosodimethylamine; and

~~(n)~~ (m) P084, 4549-40-0, N-Nitrosomethylvinylamine;~~-and~~

~~(o) P050, 5-Norbornene-2,3-dimethanol, 1,4,5,6,7,7-hexachloro, cyclic sulfite.~~

(11) Hazardous wastes from commercial chemical products beginning with the letter O:

(a) P085, 152-16-9, Octamethylpyrophosphoramide;

(b) P087, 20816-12-0, Osmium oxide;

(c) P087, 20816-12-0, Osmium tetroxide; and

(d) P088, 145-73-3, 7-Oxabicyclo[2.2.1]heptane-2,3-dicarboxylic acid.

(12) Hazardous wastes from commercial chemical products beginning with the letter P:

(a) P089, 56-38-2, Parathion;

(b) P034, 131-89-5, Phenol, 2-cyclohexyl-4,6-dinitro-;

(c) P048, 51-28-5, Phenol, 2,4-dinitro-;

(d) P047, 534-52-1, Phenol, ~~2,4-dinitro-6-methyl-~~ 2-methyl-4,6-dinitro-, and salts;

(e) P020, 88-85-7, Phenol, ~~2,4-dinitro-6-(1-methylpropyl)-~~ 2-(1-methylpropyl)-4,6-dinitro-;

(f) P009, 131-74-8, Phenol, 2,4,6-trinitro-, ammonium salt: (R);

(g) ~~P036, Phenyl dichloroarsine;~~

~~(h)~~ P092, ~~Phenylmercuric~~ 62-38-4, Phenylmercury acetate;

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~~(h)~~ (h) P093, ~~N-Phenylthiourea~~ 103-85-5, Phenylthiourea;

~~(i)~~ (i) P094, 298-02-2, Phorate;

~~(j)~~ (j) P095, 75-44-5, Phosgene;

~~(k)~~ (k) P096, 7803-51-2, Phosphine;

~~(l)~~ (l) P041, 311-45-5, Phosphoric acid, diethyl ~~p-nitrophenyl~~ 4-nitrophenyl ester;

(m) P039, 298-04-4, Phosphorodithioic acid, O,O-diethyl S-[2-(ethylthio)ethyl]ester;

(n) P094, 298-02-2, Phosphorodithioic acid, O,O-diethyl S-[(ethylthio)methyl]ester;

(o) P044, 60-51-5, Phosphorodithioic acid, O,O-dimethyl S[2-(methylamino)-2-oxoethyl]ester;

~~(o)~~ (p) P043, ~~Phosphorofluoridic~~ 55-91-4, Phosphorofluoric acid, bis(1-methylethyl)- ester;

~~(p) P094, Phosphorothioic acid, O,O-diethyl S-(ethylthio)methyl ester;~~

(q) P089, 56-38-2, Phosphorothioic acid, O,O-diethyl O-(~~p-nitrophenyl~~ 4-nitrophenyl) ester;

(r) P040, 297-97-2, Phosphorothioic acid, O,O-diethyl O-pyrazinyl ester;

(s) P097, 52-85-7, Phosphorothioic acid, ~~O,O-dimethyl-O-[p-((dimethylamino)-sulfonyl)phenyl]ester~~ O-[4-((dimethylamino)sulfonyl)phenyl]O,O-dimethyl ester;

(t) P071, 298-00-0, Phosphorothioic acid, O,O-dimethyl O-(4-nitrophenyl) ester;

(u) P110, 78-00-2, Plumbane, tetraethyl-;

~~(u)~~ (v) P098, 151-50-8, Potassium cyanide;

~~(v)~~ (w) P099, 506-61-6, Potassium silver cyanide;

~~(w)~~ (x) P070, 116-06-3, Propanal, 2-methyl-2-(methylthio)-, O-[(methylamino)carbonyl]oxime;

~~(x)~~ (y) P101, 107-12-0, Propanenitrile;

~~(y)~~ (z) P027, 542-76-7, Propanenitrile, 3-chloro-;

~~(z)~~ (aa) P069, 75-86-5, Propanenitrile,

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2-hydroxy-2-methyl-;

~~(aa)~~ (bb) P081, 55-63-0, 1,2,3-Propanetriol, trinitrate: (R);

~~(bb)~~ (cc) P017, 598-31-2, 2-Propanone, 1-bromo-;

~~(cc)~~ (dd) P102, 107-19-7, Propargyl alcohol;

~~(dd)~~ (ee) P003, 107-02-8, 2-Propenal;

~~(ee)~~ (ff) P005, 107-18-6, 2-Propen-1-ol;

~~(ff)~~ (gg) P067, 75-55-8, 1,2-Propylenimine;

~~(gg)~~ (hh) P102, 591-08-2, 2-Propyn-1-ol;

~~(hh)~~ (ii) P008, ~~4-Pyridinamine~~ 504-24-5, Pyridinamine;

~~(ii)~~ (jj) P075, 54-11-5, Pyridine, (S)-3-(1-methyl-2-pyrrolidinyl)-, and salts; and

~~(jj)~~ (kk) P111, 107-49-3, Pyrophosphoric acid, tetraethyl ester.

(13) Hazardous wastes from commercial chemical products beginning with the letter S:

(a) P103, 630-10-4, Selenourea;

(b) P104, 506-64-9, Silver cyanide;

(c) P105, 26628-22-8, Sodium azide;

(d) P106, 143-33-9, Sodium cyanide;

(e) P107, 1314-96-1, Strontium sulfide;

(f) P108, 57-24-9, Strychnidin-10-one, and salts;

(g) P018, 357-57-3, Strychnidin-10-one, 2,3-dimethoxy-;

(h) P108, 57-24-9, Strychnine and salts; and

(i) P115, 10031-59-1, Sulfuric acid, thallium(I) salt.

(14) Hazardous wastes from commercial chemical products beginning with the letter T:

(a) P109, 3689-24-5, Tetraethyldithiopyrophosphate;

(b) P110, 78-00-2, Tetraethyl lead;

(c) P111, 107-49-3, Tetraethylpyrophosphate;

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(d) P112, 509-14-8, Tetranitromethane: (R);

(e) P062, 757-58-4, Tetraphosphoric acid, hexaethyl ester;

(f) P113, 1314-32-5, Thallic oxide;

(g) P113, 1314-32-5, Thallium(III) oxide;

(h) P114, 12039-52-0, Thallium(I) ~~selenide~~ selenite;

(i) P115, 10031-59-1, Thallium(I) sulfate;

(j) P109, 3689-24-5, Thiodiphosphoric acid, tetraethyl ester;

~~(j)~~ (k) P045, 39196-18-4, Thiofanox;

~~(k)~~ (l) P049, 541-53-7, Thioimidodicarbonic diamide;

~~(l)~~ (m) P014, 108-98-5, Thiophenol;

~~(m)~~ (n) P116, 79-19-6, Thiosemicarbazide;

~~(n)~~ (o) P026, 5344-82-1, Thiourea, (2-chlorophenyl)-;

~~(o)~~ (p) P072, 86-88-4, Thiourea, 1-naphthalenyl-;

~~(p)~~ (q) P093, 103-85-5, Thiourea, phenyl-;

~~(q)~~ (r) P123, 8001-35-2, Toxaphene; and

~~(r)~~ (s) P118, 75-70-7, Trichloromethanethiol.

(15) Hazardous wastes from commercial chemical products beginning with the letter V:

(a) P119, 7803-55-6, Vanadic acid, ammonium salt;

(b) ~~P120, Vanadium pentoxide, and~~

~~(c)~~ P120, 1314-62-1, Vanadium(V) oxide; and

(c) P084, 4549-40-0, Vinylamine, N-methyl-N-nitroso-.

(16) Hazardous wastes from commercial chemical products beginning with the letter W: P001, 81-81-2, Warfarin ~~when present at concentrations greater than 0.3 percent~~.

(17) Hazardous wastes from commercial chemical products beginning with the letter Z:

(a) P121, 557-21-1, Zinc cyanide; and

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~~(b) P122, Zinc phosphide when present at concentrations greater than 10 percent: (R, T)~~ P122, 1314-84-7, Zinc phosphide: (R,T).

F. The commercial chemical products or manufacturing chemical intermediates, or off-specification commercial chemical products referred to in items A to D, and listed in subitems (1) to (24) are identified as toxic wastes (T) unless otherwise designated and are subject to the small quantity exclusion defined in part 7045.0219, subpart 1, item A. The primary hazardous properties of these materials have been indicated by the letters T (toxicity), R (reactivity), I (ignitability), and C (corrosivity). Absence of a letter indicates that the compound is listed only for toxicity. These wastes and their corresponding hazardous waste numbers, chemical abstracts numbers, if known, and hazard codes are listed as follows:

(1) Hazardous wastes from commercial chemical products beginning with the letter A:

(a) U001, 75-07-0, Acetaldehyde: (I);

(b) U034, 75-87-6, Acetaldehyde, trichloro-;

(c) U187, 62-44-2, Acetamide, N-(4-ethoxyphenyl)-;

(d) U005, 53-96-3, Acetamide, N-9H-fluoren-2-yl;

(e) U112, 141-78-6, Acetic acid, ethyl ester: (I);

(f) U144, 301-04-2, Acetic acid, lead salt;

(g) U214, 563-68-8, Acetic acid, ~~thallium (I)~~ thallium(1+) salt;

(h) U232, 93-76-5, Acetic acid, (2,4,5-trichlorophenoxy)-;

(i) U002, 67-64-1, Acetone: (I);

~~(i)~~ (j) U003, 75-05-8, Acetonitrile: (I,T);

~~(j) U248, 3-(alpha-Acetonylbenzyl)-4-hydroxycoumarin and salts when present at concentrations of 0.3 percent or less;~~

(k) U004, 98-86-2, Acetophenone;

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(l) U005, 53-96-3, 2-Acetylaminofluorene;

(m) U006, 75-36-5, Acetyl chloride: (C,R,T);

(n) U007, 79-06-1, Acrylamide;

(o) U008, 79-10-7, Acrylic acid: (I);

(p) U009, 107-13-1, Acrylonitrile;

~~(q) U150, Alanine, 3-[p-bis(2-chloroethyl)amino]-phenyl-, L-~~

~~(r)~~ U011, 61-82-5, Amitrole;

~~(s) U328, 2-Amino-1-methylbenzene;~~

~~(t) U353, 4-Amino-1-methylbenzene;~~

~~(u)~~ (r) U012, 62-53-3, Aniline: (I,T);

~~(v)~~ (s) U014, 492-80-8, Auramine;

~~(w)~~ (t) U015, 115-02-6, Azaserine; and

~~(x)~~ (u) U010, 50-07-7, Azirino(2',3':3,4)pyrrolo(1,2-a)indole-4,7-dione, 6-amino-8-[((aminocarbonyl) oxy)methyl]-1,1a,2,8,8a,8b-hexahydro-8a-methoxy-5-methyl-,.

(2) Hazardous wastes from commercial chemical products beginning with the letter B:

(a) U157, 50-49-5, Benz[j]aceanthrylene, 1,2-dihydro-3-methyl-;

(b) U016, Benz[c]acridine;

~~(c)~~ U016, 225-51-4, 3,4-Benzacridine;

~~(d)~~ (c) U017, 98-87-3, Benzal chloride;

(d) U192, 23950-58-5, Benzamide, 3,5-dichloro-N-(1,1-diethyl-2-propynyl)-;

(e) U018, 56-55-3, Benz[a]anthracene;

(f) U018, 1,2-Benzanthracene;

~~(g)~~ U094, 1,2-Benzanthracene 57-97-6, Benz[a]anthracene, 7,12-dimethyl-;

~~(h)~~ (g) U012, 62-53-3, Benzenamine: (I,T);

~~(i)~~ (h) U014, 492-80-8, Benzenamine, 4,4'-carbonimidoylbis (N,N-dimethyl)-;

~~(j)~~ (i) U049, 3165-93-3, Benzenamine, 4-chloro-2-methyl-;

~~(k)~~ (j) U093, 60-11-7, Benzenamine,

~~N,N-dimethyl-4-phenylazo-~~ N,N-dimethyl-4-(phenylazo)-;

(k) U328, 95-53-4, Benzenamine, 2-methyl-;

(l) U353, 106-49-0, Benzenamine, 4-methyl-;

(m) U158, 101-14-4, Benzenamine, 4,4'-methylenebis(2-chloro)-;

~~(m)~~ (n) U222, 636-21-5, Benzenamine, 2-methyl-, hydrochloride;

~~(n)~~ (o) U181, 99-55-8, Benzenamine, 2-methyl-5-nitro-;

~~(o)~~ (p) U019, 71-43-2, ~~Benzene; (I,T);~~

~~(p)~~ (q) U038, 510-15-6, Benzeneacetic acid, 4-chloro-alpha- (4-chlorophenyl)-alpha-hydroxy, ethyl ester;

~~(q)~~ (r) U030, 101-55-3, Benzene, 1-bromo-4-phenoxy-;

(s) U035, 305-03-3, Benzenebutanoic acid, 4-[bis(2-chloroethyl)amino]-;

~~(r)~~ (t) U037, 108-90-7, Benzene, chloro-;

~~(s) U190, 1,2-Benzenedicarboxylic acid anhydride;~~

(u) U221, 25376-45-8, Benzenediamine, ar-methyl-;

~~(t)~~ (v) U028, 117-81-7, 1,2-Benzenedicarboxylic ~~acid, (bis(2-ethyl-hexyl))~~ acid,bis(2-ethylhexy) ester;

~~(u)~~ (w) U069, 84-74-2, 1,2-Benzenedicarboxylic acid, dibutyl ester;

~~(v)~~ (x) U088, 84-66-2, 1,2-Benzenedicarboxylic acid, diethyl ester;

~~(w)~~ (y) U102, 131-11-3, 1,2-Benzenedicarboxylic acid, dimethyl ester;

~~(x)~~ (z) U107, 117-84-0, 1,2-Benzenedicarboxylic acid, di-n-octyl ester;

~~(y)~~ (aa) U070, 95-50-1, Benzene, 1,2-dichloro-;

~~(z)~~ (bb) U071, 541-73-1, Benzene, 1,3-dichloro-;

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~~(aa)~~ (cc) U072, 106-46-7, Benzene, 1,4-dichloro-;

~~(bb)~~ (dd) U017, 98-87-3, Benzene, (dichloromethyl)-;

~~(cc)~~ (ee) U223, 26471-62-5, Benzene, 1,3-diisocyanatomethyl-: (R,T);

~~(dd)~~ (ff) U239, 1330-20-7, Benzene, dimethyl-: (I,T);

~~(ee)~~ (gg) U201, 108-46-3, 1,3-Benzenediol;

~~(ff)~~ (hh) U127, 118-74-1, Benzene, hexachloro-;

~~(gg)~~ (ii) U056, 110-82-7, Benzene, hexahydro-: (I);

~~(hh) U188, Benzene, hydroxy-,~~

(jj) U060, 72-54-8, Benzene, 1,1'-(2,2-dichloroethylidene)bis[4-chloro]-;

~~(ii)~~ (kk) U220, 108-88-3, Benzene, methyl-;

~~(jj)~~ (ll) U105, 121-14-2, Benzene, ~~1-methyl-1-2,4-dinitro-~~ 1-methyl-2,4-dinitro-;

~~(kk)~~ (mm) U106, 606-20-2, Benzene, ~~1-methyl-2,6~~ 2-methyl-1,3-dinitro-;

~~(ll) U203, Benzene, 1,2-methylenedioxy-4-allyl-,~~

~~(mm) U141, Benzene, 1,2-methylenedioxy-4-propenyl-,~~

~~(nn) U090, Benzene, 1,2-methylenedioxy-4-propyl-,~~

~~(oo)~~ (nn) U055, 98-82-8, Benzene, (1-methylethyl)-: (I);

~~(pp)~~ (oo) U169, 98-95-3, Benzene, nitro-: (I,T);

~~(qq)~~ (pp) U183, 608-93-5, Benzene, pentachloro-;

~~(rr)~~ (qq) U185, 82-68-8, Benzene, pentachloronitro-;

~~(ss)~~ (rr) U020, 98-09-9, Benzenesulfonic

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acid chloride: (C,R);

~~(tt)~~ (ss) U020, 98-09-9, Benzenesulfonyl chloride: (C,R);

~~(uu)~~ (tt) U207, 95-94-3, Benzene, 1,2,4,5-tetrachloro-;

(uu) U061, 50-29-3, Benzene, 1,1'-(2,2,2-trichloroethylidene)bis[4-chloro]-;

(vv) U247, 72-43-5, Benzene, 1,1'-(2,2,2-trichloroethylidene)[4-methoxy]-;

~~(vv)~~ (ww) U023, 98-07-7, Benzene, (trichloromethyl)-: (C,R,T);

~~(ww)~~ (xx) U234, 99-35-4, Benzene, 1,3,5-trinitro-: (R,T);

~~(xx)~~ (yy) U021, 92-87-5, Benzidine;

~~(yy)~~ (zz) U202, ~~1,2-Benzisothiazolin-3-one,1,1-dioxide~~ 81-07-2, 1,2-Benzisothiazol-3(2H)-one, 1,1-dioxide and salts;

~~(zz) U120, Benzo[j,k]fluorene,~~

(aaa) U203, 94-59-7, 1,3-Benzodioxole, 5-(2-propenyl)-;

(bbb) U141, 120-58-1, 1,3-Benzodioxole, 5-(1-propenyl)-;

(ccc) U090, 94-58-6, 1,3-Benzodioxole, 5-propyl-;

(ddd) U064, 189-55-9, Benzo[rst]pentaphene;

~~(aaa)~~ (eee) U022, 50-32-8, Benzo[a]pyrene;

~~(bbb) U022, 3,4-Benzopyrene,~~

~~(ccc)~~ (fff) U197, 106-51-4, p-Benzoquinone;

~~(ddd)~~ (ggg) U023, 98-07-7, Benzotrichloride: (C,R,T);

~~(eee) U050, 1,2-Benzphenanthrene,~~

~~(fff)~~ (hhh) U085, 1464-53-5, 2,2'-Bioxirane: (I,T);

~~(ggg)~~ (iii) U021, 92-87-5, (1,1'-Biphenyl)-4,4'-diamine;

~~(hhh)~~ (jjj) U073,

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91-94-1, (1,1'-Biphenyl)-4,4'-diamine, 3,3'-dichloro-;

~~(iii)~~ (kkk) U091,

119-90-4, (1,1'-Biphenyl)-4,4'-diamine, 3,3'-dimethoxy-;

~~(jjj)~~ (lll)

U095, 119-93-7, (1,1'-Biphenyl)-4,4'-diamine, 3,3'-dimethyl-;

(mmm) U027, 39638-32-9,

Bis(2-chloroisopropyl) ether;

~~(kkk)~~ (nnn) U024, ~~Bis(2-chloroethoxy)~~

methane 111-91-1, Bis(2-chloromethoxy) ethane;

~~(lll) U027, Bis(2-chloroisopropyl) ether,~~

~~(mmm) U244, Bis(dimethylthiocarbamoyl)~~

~~disulfide,~~

~~(nnn)~~ (ooo) U028, 117-81-7, Bis(2-ethylhexyl)

phthalate;

~~(ooo) U246, Bromine cyanide,~~

~~(ppp)~~ (ppp) U225, 75-25-2, Bromoform;

~~(qqq)~~ (qqq) U030, 101-55-3, 4-Bromophenyl

phenyl ether;

~~(rrr)~~ (rrr) U128, 87-68-3, 1,3-Butadiene,

1,1,2,3,4,4-hexachloro-;

~~(sss)~~ (sss) U172, 924-16-3, 1-Butanamine,

N-butyl-N-nitroso-;

~~(ttt) U035, Butanoic acid,~~

~~4-[bis(2-chloroethyl)-amino]-benzene,~~

~~(uuu)~~ (ttt) U031, 71-36-3, 1-Butanol: (I);

~~(vvv)~~ (uuu) U159, 78-93-3, 2-Butanone:

(I,T);

~~(www)~~ (vvv) U160, 1338-23-4, 2-Butanone

peroxide: (R,T);

~~(xxx)~~ (www) U053, 4170-30-3, 2-Butenal;

~~(yyy)~~ (xxx) U074, 764-41-0, 2-Butene,

1,4-dichloro-: (I,T); and

(yyy) U143, 303-34-4, 2-Butenoic acid,

2-methyl-,

7-[(2,3-dihydroxy-2-(1-methoxyethyl)-3-methyl-1-oxobutoxy)

methyl]-2,3,5,7a-tetrahydro-1-pyrrolizin-1-yl ester,

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[1S-[1alpha(Z),7(2S,3R), 7aalpha]]-; and

(zzz) U031, 71-36-3, n-Butyl alcohol: (I).

(3) Hazardous wastes from commercial chemical compounds beginning with the letter C:

(a) U136, 75-60-5, Cacodylic acid;

(b) U032, 13765-19-0, Calcium chromate;

(c) U238, 51-79-6, Carbamic acid, ethyl ester;

(d) U178, 615-53-2, Carbamic acid, methylnitroso-, ethyl ester;

~~(e) U176, Carbamide, N-ethyl-N-nitroso-;~~

~~(f) U177, Carbamide, N-methyl-N-nitroso-;~~

~~(g) U219, Carbamide, thio-;~~

~~(h)~~ U097, ~~Carbamoyl~~ 79-44-7, Carbamic chloride, dimethyl-;

(f) U114, 111-54-6, Carbamodithioic acid, 1,2-ethanediylbis-, salts and esters;

(g) U062, 2303-16-4, Carbamothioic acid, bis(1-methylethyl)-S-(2,3-dichloro-2-propenyl) ester;

~~(i)~~ (h) U215, 6533-73-9, Carbonic acid, ~~dithallium(1+)~~ dithallium (1+) salt;

(i) U033, 353-50-4, Carbonic difluoride;

(j) U156, 79-22-1, Carbonochloridic acid, methyl ester: (I,T);

(k) U033, 353-50-4, Carbon oxyfluoride: (R,T);

(l) U211, 56-23-5, Carbon tetrachloride;

~~(m) U033, Carbonyl fluoride; (R,T);~~

~~(n)~~ U034, 75-87-6, Chloral;

~~(o)~~ (n) U035, 305-03-3, Chlorambucil;

~~(p)~~ (o) U036, 12789-03-6, Chlordane, ~~technical~~;

~~(q)~~ (p) U026, 494-03-1, Chlornaphazine;

~~(r)~~ (q) U037, 108-90-7, Chlorobenzene;

~~(s)~~ (r) U039, ~~4-Chloro-m-cresol~~ 59-50-7, p-Chloro-m-cresol;

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~~(t)~~ (s) U041, 106-89-8, 1-Chloro-2,3-epoxypropane;

~~(u)~~ (t) U042, 110-75-8, 2-Chloroethyl vinyl ether;

~~(v)~~ (u) U044, 67-66-3, Chloroform;

~~(w)~~ (v) U046, 107-30-2, Chloromethyl methyl ether;

~~(x)~~ (w) U047, 91-58-7, beta-Chloronaphthalene;

~~(y)~~ (x) U048, 95-57-8, o-Chlorophenol;

~~(z)~~ (y) U049, 3165-93-3, 4-Chloro-o-toluidine, hydrochloride;

~~(aa)~~ (z) U032, 13765-19-0, Chromic acid, calcium salt;

~~(bb)~~ (aa) U050, 218-01-9, Chrysene;

~~(cc)~~ (bb) U051, 8021-39-4, Creosote;

~~(dd)~~ (cc) U052, 1319-77-3, Cresols (Cresylic acid);

~~(ee) U052, Cresylic acid,~~

~~(ff)~~ (dd) U053, 4170-30-3, Crotonaldehyde;

~~(gg)~~ (ee) U055, 98-82-8, Cumene: (I);

~~(hh)~~ (ff) U246, 506-68-3, Cyanogen bromide;

~~(ii)~~ (gg) U197, ~~1,4-Cyclohexadienedione~~ 106-51-4, 2,5-Cyclohexadiene-1,4-dione;

~~(jj)~~ (hh) U056, 110-82-7, Cyclohexane: (I);

~~(kk)~~ (ii) U057, 108-94-1, Cyclohexanone: (I);

~~(ll)~~ (jj) U130, 77-47-4, 1,3-Cyclopentadiene, 1,2,3,4,5,5-hexachloro-; and

~~(mm)~~ (kk) U058, 50-18-0, Cyclophosphamide.

(4) Hazardous wastes from commercial chemical products beginning with the letter D:

(a) U240, 94-75-7, 2,4-D, salts and esters;

(b) U059, 20830-81-3, Daunomycin;

(c) U060, 72-54-8, DDD ~~1,1-(2,2-dichloroethylidene)-bis-4-chlorobenzene~~;

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(d) U061, 50-29-3, DDT~~, 1,1'-(2,2,2-trichloroethylidene)-bis-4-chlorobenzene~~;

~~(e) U142, Decachlorooctahydro-1,3,4-metheno-2H-cyclobuta(c,d)-pentalen-2-one,~~

~~(f)~~ U062, 2303-16-4, Diallate;

~~(g) U133, Diamine,--(R,T),~~

~~(h) U221, Diaminotoluene,~~

~~(i)~~ (f) U063, 53-70-3, Dibenz[a,h]anthracene;

~~(j) U063, 1,2:5,6-Dibenzanthracene,~~

~~(k) U064, 1,2:7,8-Dibenzopyrene,~~

~~(l)~~ (g) U064, ~~Dibenz(a,i)pyrene~~ 189-55-9, Dibenzo[a,i]pyrene;

~~(m)~~ (h) U066, 96-12-8, 1,2-Dibromo-3-chloropropane;

~~(n)~~ (i) U069, 84-74-2, Dibutyl phthalate;

~~(o) U062, S-(2,3-Dichloroallyl)~~ ~~diisopropylthiocarbamate,~~

~~(p)~~ (j) U070, 95-50-1, o-Dichlorobenzene;

~~(q)~~ (k) U071, 541-73-1, m-Dichlorobenzene;

~~(r)~~ (l) U072, 106-46-7, p-Dichlorobenzene;

~~(s)~~ (m) U073, 91-94-1, 3,3'-Dichlorobenzidine;

~~(t)~~ (n) U074, 764-41-0, 1,4-Dichloro-2-butene: (I,T);

~~(u)~~ (o) U075, 75-71-8, Dichlorodifluoromethane;

~~(v) U192, 3,5-Dichloro-N-(1,1-dimethyl-2-propynyl)-benzamide,~~

~~(w) U060, Dichloro-diphenyl-dichloroethane,~~

~~(x) U061, Dichloro-diphenyl-trichloroethane,~~

~~(y)~~ (p) U078, 75-35-4, 1,1-Dichloroethylene;

~~(z)~~ (q) U079, 156-60-5, 1,2-Dichloroethylene;

~~(aa)~~ (r) U025, 111-44-1, Dichloroethyl ether;

~~(bb)~~ (s) U081, 120-83-2, 2,4-Dichlorophenol;

~~(cc)~~ (t) U082, 87-65-0, 2,6-Dichlorophenol;

~~(dd)~~ (u) U240, 94-75-7,

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2,4-Dichlorophenoxyacetic acid, salts and esters;

~~(ee)~~ (v) U083, 78-87-5, 1,2-Dichloropropane;

~~(ff)~~ (w) U084, 542-75-6, 1,3-Dichloropropene;

~~(gg)~~ (x) U085, 1464-53-5, 1,2:3,4-Diepoxybutane: (I,T);

~~(hh)~~ (y) U108, ~~1,4-Diethylene-dioxide~~ 123-91-1, 1,4-Diethyleneoxide;

~~(ii)~~ (z) U086, 1615-80-1, N,N-Diethylhydrazine;

~~(jj)~~ (aa) U087, 3288-58-2, O,O-Diethyl-S-methyl-dithiophosphate;

~~(kk)~~ (bb) U088, 84-66-2, Diethyl phthalate;

~~(ll)~~ (cc) U089, 56-53-1, Diethylstilbestrol;

~~(mm) U148, 1,2-Dihydro-3,6-pyridazinedione;~~

~~(nn)~~ (dd) U090, 94-58-6, Dihydrosafrole;

~~(oo)~~ (ee) U091, 119-90-4, 3,3'-Dimethoxybenzidine;

~~(pp)~~ (ff) U092, 124-40-3, Dimethylamine: (I);

~~(qq)~~ (gg) U093, 60-11-7, Dimethylaminoazobenzene;

~~(rr)~~ (hh) U094, 57-97-6, 7,12-Dimethylbenz[a]anthracene;

~~(ss)~~ (ii) U095, 119-93-7, 3,3'-Dimethylbenzidine;

~~(tt)~~ (jj) U096, 80-15-9, alpha,alpha-Dimethylbenzylhydroperoxide: (R);

~~(uu)~~ (kk) U097, 79-44-7, Dimethylcarbamoyl chloride;

~~(vv)~~ (ll) U098, 57-14-7, 1,1-Dimethylhydrazine;

~~(ww)~~ (mm) U099, 540-73-8, 1,2-Dimethylhydrazine;

~~(xx)~~ (nn) U101, 105-67-9, 2,4-Dimethylphenol;

~~(yy)~~ (oo) U102, 131-11-3, Dimethyl phthalate;

~~(zz)~~ (pp) U103, 77-78-1, Dimethyl sulfate;

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~~(aaa)~~ (qq) U105, 121-14-2, 2,4-Dinitrotoluene;

~~(bbb)~~ (rr) U106, 606-20-2, 2,6-Dinitrotoluene;

~~(ccc)~~ (ss) U107, 117-84-0, Di-n-octyl phthalate;

~~(ddd)~~ (tt) U108, 123-91-1, 1,4-Dioxane;

~~(eee)~~ (uu) U109, 122-66-7, 1,2-Diphenylhydrazine;

~~(fff)~~ (vv) U110, 142-84-7, Dipropylamine: (I); and

~~(ggg)~~ (ww) U111, 621-64-7, Di-n-propylnitrosamine.

(5) Hazardous wastes from commercial chemical products beginning with the letter E:

(a) U001, 75-07-0, Ethanal: (I);

(b) U174, 55-18-5, Ethanamine, N-ethyl-N-nitroso-;

(c) U155, 91-80-5, 1,2-Ethanediamine, N,N-dimethyl-N'-2-pyridinyl-N'-(2-thienylmethyl)-;

(d) U067, 106-93-4, Ethane, 1,2-dibromo-;

~~(d)~~ (e) U076, 75-34-3, Ethane, 1,1-dichloro-;

~~(e)~~ (f) U077, 107-06-2, Ethane, 1,2-dichloro-;

~~(f) U114, 1,2-Ethanediylbiscarbamodithioic acid,~~

(g) U131, 67-72-1, Ethane, ~~1,1,1,2,2,2-hexachloro-~~ hexachloro-;

(h) U024, 111-91-1, Ethane, 1,1'-[methylenebis(oxy)]bis[2-chloro]-;

~~(i) U003, Ethanenitrile; (I,T)~~

~~(j)~~ U117, 60-29-7, Ethane, 1,1'-oxybis-: (I);

~~(k)~~ (j) U025, 111-44-4, Ethane, 1,1'-oxybis[2-chloro]-;

~~(l)~~ (k) U184, 76-01-7, Ethane, pentachloro-;

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~~(m)~~ (l) U208, 630-20-6, Ethane, 1,1,1,2-tetrachloro-;

~~(n)~~ (m) U209, 79-34-5, Ethane, 1,1,2,2-tetrachloro-;

~~(o)~~ (n) U218, 62-55-5, Ethanethioamide;

~~(p)~~ (o) U227, ~~Ethane~~ 110-80-5, Ethanol, ~~1,1,2-trichloro-~~ 2-ethoxy-;

~~(q) U247, Ethane, 1,1,1-trichloro-2,2-bis(p-methoxyphenyl)~~ (p) U359, 79-00-5, Ethane, 1,1,2-trichloro-;

~~(r)~~ (q) U173, 1116-54-7, Ethanol, 2,2'-(nitrosoimino)bis-;

(r) U004, 98-86-2, Ethanone, 1-phenyl-;

(s) U043, 75-01-4, Ethene, chloro-;

~~(s)~~ (t) U042, 110-75-8, Ethene, (2-chloroethoxy)-;

~~(t)~~ (u) U078, 75-35-4, Ethene, 1,1-dichloro-;

~~(u)~~ (v) U079, 156-60-5, Ethene, ~~trans-1,2-dichloro-~~ 1,2-dichloro-,(E)-;

~~(v)~~ (w) U210, 127-18-4, Ethene, ~~1,1,2,2-tetrachloro-~~ tetrachloro;

~~(w) U173, Ethanol, 2,2'-(nitrosoimino)bis-;~~

~~(x) U004, Ethanone, 1-phenyl-;~~

~~(y) U006, Ethanoyl chloride; (C,R,T);~~

~~(z) U359, 2-Ethoxyethanol~~ (x) U228, 79-01-6, Ethene, trichloro;

~~(aa)~~ (y) U112, 141-78-6, Ethyl acetate: (I);

~~(bb)~~ (z) U113, 140-88-5, Ethyl acrylate: (I);

~~(cc)~~ (aa) U238, 51-79-6, Ethyl ~~carbamate(urethan)~~ carbamate;

~~(dd)~~ (bb) U038, 510-15-6, Ethyl 4,4'-dichlorobenzilate;

~~(ee)~~ (cc) U114, ~~Ethylenebis(dithiocarbamic acid)~~ 111-54-6, Ethylenebisdithiocarbamic acid, salts and esters;

~~(ff)~~ (dd) U067, 106-93-4, Ethylene dibromide;

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~~(gg)~~ (ee) U077, 107-06-2, Ethylene dichloride;

~~(hh)~~ (ff) U359, 110-80-5, Ethylene glycol monoethyl ether;

~~(ii)~~ (gg) U115, 75-21-8, Ethylene oxide: (I,T);

~~(jj)~~ (hh) U116, 96-45-7, Ethylene thiourea;

~~(kk)~~ (ii) U117, 60-29-7, Ethyl ether: (I);

~~(ll)~~ (jj) U076, 75-34-3, Ethylidene dichloride;

~~(mm)~~ (kk) U118, 97-63-2, Ethyl methacrylate; and

~~(nn)~~ (ll) U119, 62-50-0, Ethylmethanesulfonate.

(6) Hazardous wastes from commercial chemical products beginning with the letter F:

(a) ~~U139, Ferric dextran;~~

~~(b)~~ U120, 206-44-0, Fluoranthene;

~~(c)~~ (b) U122, 50-00-0, Formaldehyde;

~~(d)~~ (c) U123, 64-18-6, Formic acid: (C,T);

~~(e)~~ (d) U124, 110-00-9, Furan: (I);

~~(f)~~ (e) U125, 98-01-1, 2-Furancarboxaldehyde: (I);

~~(g)~~ (f) U147, 108-31-6, 2,5-Furandione;

~~(h)~~ (g) U213, 109-99-9, Furan, tetrahydro-: (I);

~~(i)~~ (h) U125, 98-01-1, Furfural: (I); and

~~(j)~~ (i) U124, 110-00-9, Furfuran: (I).

(7) Hazardous wastes from commercial chemical products beginning with the letter G:

(a) U206, 18883-66-4, D-Glucopyranose, 2-deoxy-2(3-methyl-3-nitrosoureido)-;

(b) U126, 765-34-4, Glycidylaldehyde; and

(c) U163, 70-25-7, Guanidine, ~~N-nitroso-N-methyl-N'-nitro-~~ N-methyl-N'-nitro-N-nitroso-.

(8) Hazardous wastes from commercial chemical

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products beginning with the letter H:

(a) U127, 118-74-1, Hexachlorobenzene;

(b) U128, 87-68-3, Hexachlorobutadiene;

(c) U129, 58-88-9, Hexachlorocyclohexane (gamma isomer);

(d) U130, 77-47-4, Hexachlorocyclopentadiene;

(e) U131, 67-72-1, Hexachloroethane;

(f) U132, 70-30-4, Hexachlorophene;

(g) U243, 1888-71-7, Hexachloropropene;

(h) U133, 302-01-2, Hydrazine: (R,T);

(i) U086, 1615-80-1, Hydrazine, 1,2-diethyl-;

(j) U098, 57-14-7, Hydrazine, 1,1-dimethyl-;

(k) U099, 540-73-8, Hydrazine, 1,2-dimethyl-;

(l) U109, 122-66-7, Hydrazine, 1,2-diphenyl-;

(m) U134, 7664-39-3, Hydrofluoric acid: (C,T);

(n) U134, 7664-39-3, Hydrogen fluoride: (C,T);

(o) U135, 7783-06-4, Hydrogen sulfide;

(p) U096, 80-15-9, Hydroperoxide, 1-methyl-1-phenylethyl-: (R); and

(q) U136, 75-60-5, Hydroxydimethylarsine oxide.

(9) Hazardous wastes from commercial chemical products beginning with the letter I:

(a) U116, 96-45-7, 2-Imidazolidinethione;

(b) U137, 193-39-5, Indeno[1,2,3cd]pyrene;

(c) U139, 9004-66-4, Iron dextran;

(d) U190, 85-44-9, 1,3-Isobenzofurandione;

(e) U140, 78-83-1, Isobutyl alcohol: (I,T); and

~~(e)~~ (f) U141, 120-58-1, Isosafrole.

(10) Hazardous wastes from commercial chemical products beginning with the letter K: U142, 143-50-0, Kepone.

(11) Hazardous wastes from commercial chemical products beginning with the letter L:

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(a) U143, 303-34-4, Lasiocarpine;

(b) U144, 301-04-2, Lead acetate;

(c) U146, 1335-32-6, Lead, bis(acetato-O)tetrahydoxytri-;

(d) U145, 7446-27-7, Lead phosphate;

~~(d)~~ (e) U146, 1335-32-6, Lead subacetate; and

~~(e)~~ (f) U129, 58-89-9, Lindane.

(12) Hazardous wastes from commercial chemical products beginning with the letter M:

(a) U147, 108-31-6, Maleic anhydride;

(b) U148, 123-33-1, Maleic hydrazide;

(c) U149, 109-77-3, Malononitrile;

(d) U150, 148-82-3, Melphalan;

(e) U151, 7439-97-6, Mercury;

(f) U152, 126-98-7, Methacrylonitrile: (I,T);

(g) U092, 124-40-3, Methanamine, N-methyl-: (I);

(h) U029, 74-83-9, Methane, bromo-;

(i) U045, 74-87-3, Methane, chloro-: (I,T);

(j) U046, 107-30-2, Methane, chloromethoxy-;

(k) U068, 74-95-3, Methane, dibromo-;

(l) U080, 75-09-2, Methane, dichloro-;

(m) U075, 75-71-8, Methane, dichlorodifluoro-;

(n) U138, 74-88-4, Methane, iodo-;

(o) U119, 62-50-0, Methanesulfonic acid, ethyl ester;

(p) U211, 56-23-5, Methane, tetrachloro-;

~~(q) U121, Methane, trichlorofluoro-,~~

~~(r)~~ U153, 74-93-1, Methanethiol: (I,T);

~~(s)~~ (r) U225, 75-25-2, Methane, tribromo-;

~~(t)~~ (s) U044, 67-66-3, Methane, trichloro-;

~~(u) U121, Methane, trichlorofluoro-,~~

(t) U121, 75-69-4, Methane, trichlorofluoro-;

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~~(v)~~ (u) U123, 64-18-6, Methanoic acid: (C,T);

~~(w) U036, 477-Methanoindan, 1,2,4,5,6,7,8,8-octachloro-3a,4,7,7a-tetrahydro-,~~

~~(x)~~ (v) U154, 67-56-1, Methanol: (I);

~~(y)~~ (w) U155, 91-80-5, Methapyrilene;

(x) U142, 143-50-0, 1,3,4-Metheno-2H-cyclobuta[cd]pentalen-2-one,1,1a,3,3a,4,5,5,5a,5b, 6-decachlorooctahydro-;

~~(z)~~ (y) U247, 72-43-5, Methoxychlor;

~~(aa)~~ (z) U154, 67-56-1, Methyl alcohol: (I);

~~(bb)~~ (aa) U029, 74-83-9, Methyl bromide;

~~(cc)~~ (bb) U186, 504-60-9, 1-Methylbutadiene: (I);

~~(dd)~~ (cc) U045, 74-87-3, Methyl chloride: (I,T);

~~(ee)~~ (dd) U156, 79-22-1, Methyl chlorocarbonate: (I,T);

~~(ff)~~ (ee) U226, 71-55-6, Methyl chloroform;

~~(gg)~~ (ff) U157, 56-49-5, 3-Methylcholanthrene;

~~(hh)~~ (gg) U158, 101-14-4, 4,4'-Methylenebis (2-chloroaniline);

~~(ii) U132, 2,2'-Methylenebis (3,4,6-trichlorophenol),~~

~~(jj)~~ (hh) U068, 74-95-3, Methylene bromide;

~~(kk)~~ (ii) U080, 75-09-2, Methylene chloride;

~~(ll) U122, Methylene oxide;~~

~~(mm)~~ (jj) U159, 78-93-3, Methyl ethyl ketone (MEK): (I,T);

~~(nn)~~ (kk) U160, 1338-23-4, Methyl ethyl ketone peroxide: (R,T);

~~(oo)~~ (ll) U138, 74-88-4, Methyl iodide;

~~(pp)~~ (mm) U161, 108-10-1, Methyl isobutyl ketone: (I);

~~(qq)~~ (nn) U162, 80-62-6, Methyl

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methacrylate: (I,T);

~~(rr)~~ (oo) U163, 70-25-7, N-Methyl-N'-~~nitro-N-nitrosoguanidine~~ -nitro-N-nitrosoguanidine;

~~(ss)~~ (pp) U161, 108-10-1, 4-Methyl-2-pentanone: (I);

~~(tt)~~ (qq) U164, 56-04-2, Methylthiouracil; and

~~(uu)~~ (rr) U010, 50-07-7, Mitomycin C.

(13) Hazardous wastes from commercial chemical compounds beginning with the letter N:

(a) U059, 20830-81-3, 5,12-Naphthacenedione, ~~(8S-cis)~~-8-acetyl-10-~~(~~[3-amino-2,3,6-trideoxy-alpha-L-lyxo-hexopyranosyl~~)~~oxy]-7,8,9,10-tetrahydro-6,8,11-trihydroxy-1-methoxy-;

(b) U165, 91-20-3, Naphthalene;

(c) U047, 91-58-7, Naphthalene, 2-chloro-;

(d) U166, 130-15-4, 1,4-Naphthalenedione;

(e) U236, 72-57-1, 2,7-Naphthalenedisulfonic acid, 3,3'-[(3,3'dimethyl-(1,1'biphenyl)-4,4'-diyl)]-bis (azo)bis(5-amino-4-hydroxy)-,tetrasodium salt;

(f) U166, 130-15-4, 1,4-Naphthoquinone;

(g) ~~U167-1-Naphthylamine;~~

~~(h) U168-2-Naphthylamine;~~

~~(i)~~ U167, 134-32-7, alpha-Naphthylamine;

~~(j)~~ (h) U168, 91-59-8, beta-Naphthylamine;

~~(k)~~ (i) U026, ~~2-Naphthylamine~~ 494-03-1, 2-Naphthylamine, ~~N,N-bis(2-chloroethyl)-~~ N,N'-bis(2-chloromethyl) -;

(j) U167, 134-32-7, 1-Napthylenamine;

(k) U168, 91-59-8, 2-Naphthylenamine;

(l) U217, 10102-45-1, Nitric acid, thellium(It) salt;

(m) U169, 98-95-3, Nitrobenzene: (I,T);

~~(m)~~ (n) U170, 100-02-7, p-Nitrophenol;

~~(n)~~ (o) U171, 79-46-9, 2-Nitropropane: (I

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,T);

~~(o)~~ (p) U172, 924-16-3, N-Nitrosodi-n-butylamine;

~~(p)~~ (q) U173, 1116-54-7, N-Nitrosodiethanolamine;

~~(q)~~ (r) U174, 55-18-5, N-Nitrosodiethylamine;

~~(r) U111, N-Nitrosodi-N-propylamine;~~

(s) U176, 759-73-9, N-Nitroso-N-ethylurea;

(t) U177, 684-93-5, N-Nitroso-N-methylurea;

(u) U178, 615-53-2, N-Nitroso-N-methylurethane;

(v) U179, 100-75-4, N-Nitrosopiperidine;

(w) U180, 930-55-2, N-Nitrosopyrrolidine; and

(x) U181, 99-55-8, 5-Nitro-o-toluidine.

(14) Hazardous wastes from commercial chemical products beginning with the letter O:

(a) U193, 1120-71-4, 1,2-Oxathiolane, 2,2-dioxide;

(b) U058, ~~2H-1,3,2-Oxazaphosphorine, 2~~ [bis(2-chloroethyl)amino]tetrahydro-, 50-18-0, 2H-1,3,2-Oxazaphosphorin-2-amine,N,N-bis (2-chloroethyl)tetrahydro-, 2-oxide;

(c) U115, 75-21-8, Oxirane: (I,T); and

(d) U126, 765-34-4, Oxiranecarboxyaldehyde; and

(e) U041, 106-89-8, Oxirane, ~~2-(chloromethyl)-~~ (chloromethyl)-.

(15) Hazardous wastes from commercial chemical products beginning with the letter P:

(a) U182, 123-63-7, Paraldehyde;

(b) U183, 608-93-5, Pentachlorobenzene;

(c) U184, 76-01-7, Pentachloroethane;

(d) U185, 82-68-8, Pentachloronitrobenzene (PCNB);

(e) U242, 87-86-5, Pentachlorophenol;

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(f) U186, 504-60-9, 1,3-Pentadiene: (I);

~~(f)~~ (g) U187, 62-44-2, Phenacetin;

~~(g)~~ (h) U188, 108-95-2, Phenol;

~~(h)~~ (i) U048, 95-57-8, Phenol, 2-chloro-;

~~(i)~~ (j) U039, 59-50-7, Phenol, 4-chloro-3-methyl-;

~~(j)~~ (k) U081, 120-83-2, Phenol, 2,4-dichloro-;

~~(k)~~ (l) U082, 87-65-0, Phenol, 2,6-dichloro-;

(m) U089, 56-53-1, Phenol, 4,4'-(1,2-diethyl-1,2-ethenediyl)bis-,(E)-;

~~(l)~~ (n) U101, 105-67-9, Phenol, 2,4-dimethyl-;

(o) U052, 1319-77-3, Phenol, methyl-;

(p) U132, 70-30-4, Phenol,2,2'-methylenebis[3,4,6-trichloro]-;

~~(m)~~ (q) U170, 100-02-7, Phenol, 4-nitro-;

~~(n) U137, 193-39-5, Phenylene)pyrene;~~

(r) U242, 87-86-5, Phenol, pentachloro-;

(s) U212, 58-90-2, Phenol, 2,3,4,6-tetrachloro-;

(t) U230, 95-94-4, Phenol, 2,4,5-trichloro-;

(u) U231, 88-06-2, Phenol, 2,4,6-trichloro-;

(v) U150, 148-82-3, L-Phenylalanine, 4-[bis(2-chloroethyl)amino]-;

~~(o)~~ (w) U145, 7446-27-7, Phosphoric acid, lead salt;

~~(p)~~ (x) U087, 3288-58-2, Phosphorodithioic acid, O,O-diethyl-,S-methyl ester;

~~(q)~~ (y) U189, ~~Phosphorus~~ 108-95-2, Phosphorous sulfide: (R);

~~(r)~~ (z) U190, 85-44-9, Phthalic anhydride;

~~(s)~~ (aa) U191, 109-06-8, 2-Picoline;

(bb) U179, 100-75-4, Piperdine, 1-nitroso-;

~~(t)~~ (cc) U192, 23950-58-5, Pronamide;

~~(u)~~ (dd) U194, 107-10-8, 1-Propanamine:

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(I,T);

(ee) U111, 621-64-7, 1-Propanamine,N-nitroso-N-propyl-;

~~(v)~~ (ff)-U110, 142-84-7, 1-Propanamine, N-propyl-: (I);

~~(w)~~ (gg) U066, 96-12-8, Propane, 1,2-dibromo-3-chloro-;

~~(x)~~ (hh) U149, 109-77-3, Propanedinitrile;

~~(y)~~ (ii) U171, 79-46-9, Propane, 2-nitro-: (I,T);

~~(z)~~ (jj) U027, 39638-32-9, Propane, 2,2'-oxybis[2-chloro]-;

~~(aa)~~ (kk) U193, 1120-71-4, 1,3-Propane sultone;

~~(bb)~~ (ll) U235, 126-72-7, 1-Propanol, 2,3-dibromo-, phosphate (3:1);

~~(cc) U126, 1-Propanol, 2,3-epoxy-,~~

~~(dd)~~ (mm) U140, 78-83-1, 1-Propanol, 2-methyl-: (I,T);

~~(ee)~~ (nn) U002, 67-64-1, 2-Propanone: (I);

(oo) U084, 542-75-6, 1-Propane, 1,3-dichloro-;

(pp) U152, 126-98-7, 2-Propanenitrile,2-methyl-: (I,T);

~~(ff)~~ (qq) U007, 79-06-1, 2-Propenamide;

~~(gg) U084, Propene, 1,3-dichloro-,~~

~~(hh)~~ (rr) U243, 1888-71-7, 1-Propene, ~~1,1,2,3,3,3-hexachloro-~~ hexachloro-;

~~(ii)~~ (ss) U009, 107-13-1, 2-Propenenitrile;

~~(jj) U152, 2-Propenenitrile, 2-methyl-,~~ ~~(I,T)~~,

~~(kk)~~ (tt) U008, 79-10-7, 2-Propenoic acid: (I);

~~(ll)~~ (uu) U113, 140-88-5, 2-Propenoic acid, ethyl ester: (I);

~~(mm)~~ (vv) U118, 97-63-2, 2-Propenoic acid,

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2-methyl-, ethyl ester;

~~(nn)~~ (ww) U162, 80-66-2, 2-Propenoic acid, 2-methyl-, methyl ester,: (I,T);

(xx) U233, 93-72-1, Propionic acid, 2-(2,4,5-trichlorophenoxy)-;

~~(oo)~~ (yy) U194, 107-10-8, n-Propylamine: (I,T);

~~(pp)~~ (zz) U083, 78-87-5, Propylene dichloride;

(aaa) U148, 123-33-1, 3,6-Pyridazinedione, 1,2-dihydro;

~~(qq)~~ (bbb) U196, 110-86-1, Pyridine;

~~(rr) U155, Pyridine, 2-[(2-dimethylamino)ethyl]-2-thenylamino-, (ss) U179, Pyridine, hexahydro-N-nitroso-,~~

~~(tt)~~ (ccc) U191, 109-06-8, Pyridine, 2-methyl-;

(ddd) U237, 66-75-1, 2,4(1H,3H)-Pyrimidinedione, 5-[bis(2-chloro-ethyl)amino]-;

~~(uu)~~ (eee) U164, 56-04-2, 4-(1H)-Pyrimidinone, 2,3-dihydro-6-methyl-2-thioxo-; and

~~(vv)~~ (fff) U180, ~~Pyrrole, tetrahydro-N-nitroso-~~ 930-55-2, Pyrrolidine, 1-nitroso-.

(16) Hazardous wastes from commercial chemical products beginning with the letter R:

(a) U200, 50-55-5, Reserpine; and

(b) U201, 108-46-3, Resorcinol.

(17) Hazardous wastes from commercial chemical products beginning with the letter S:

(a) U202, 81-07-2, Saccharin and salts;

(b) U203, 94-59-7, Safrole;

(c) U204, 7783-00-8, Selenious acid;

(d) U204, 7783-00-8, Selenium dioxide;

(e) U205, 7446-34-6, Selenium ~~disulfide~~ sulfide: (R,T);

(f) U015, 115-02-6, L-Serine, diazoacetate

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(ester);

(g) ~~U089, 4,4'-Stilbenediol, alpha,alpha'-diethyl-~~ U233, 93-72-1, Silvex;

(h) U206, 18883-66-4, Streptozotocin;

(i) ~~U135, Sulfur hydride,~~

~~(j)~~ U103, 77-78-1, Sulfuric acid, dimethyl ester; and

~~(k)~~ (j) U189, 1314-80-3, Sulfur phosphide: ~~(R), and~~

~~(l) U205, Sulfur selenide: (R,T).~~

(18) Hazardous wastes from commercial chemical products beginning with the letter T:

(a) U232, 93-76-5, 2,4,5-T;

(b) U207, 95-94-3, 1,2,4,5-Tetrachlorobenzene;

~~(b)~~ (c) U208, 630-20-6, 1,1,1,2-Tetrachloroethane;

~~(c)~~ (d) U209, 79-34-5, 1,1,2,2-Tetrachloroethane;

~~(d)~~ (e) U210, 127-18-4, Tetrachloroethylene;

(f) U212, 58-90-2, 2,3,4,6-Tetrachlorophenol;

~~(e)~~ (g) U213, 109-99-9, Tetrahydrofuran: (I);

~~(f)~~ (h) U214, 15843-14-8, Thallium(I) acetate;

~~(g)~~ (i) U215, 6533-73-9, Thallium(I) carbonate;

~~(h)~~ (j) U216, 7791-12-0, ~~Thallium(I)~~ Thallium chloride;

~~(i)~~ (k) U217, 10102-45-1, Thallium(I) nitrate;

~~(j)~~ (l) U218, 62-55-5, Thioacetamide;

~~(k)~~ (m) U153, 74-93-1, Thiomethanol: (I,T);

(n) U244, 137-26-8, Thioperoxydicarbonic diamide, tetramethyl-;

~~(l)~~ (o) U219, 62-56-6, Thiourea;

~~(m)~~ (p) U244, ~~Thiram~~ 137-26-8, Thiuram;

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~~(n)~~ (q) U220, 108-88-3, Toluene;

~~(o)~~ (r) U221, 25376-45-8, Toluenediamine;

~~(p)~~ (s) U223, 26471-62-5, Toluene diisocyanate: (R,T);

~~(q)~~ (t) U328, 95-53-4, o-Toluidine;

~~(r)~~ (u) U353, 106-49-0, p-Toluidine;

~~(s)~~ (v) U222, 636-21-5, o-Toluidine hydrochloride;

~~(t)~~ (w) U011, 61-82-5, 1H-1,2,4-Triazol-3-amine;

~~(u)~~ (x) U226, 71-55-6, 1,1,1-Trichloroethane;

~~(v)~~ (y) U227, 79-00-5, 1,1,2-Trichloroethane;

~~(w) U228, Trichloroethene;~~

~~(x)~~ (z) U228, 79-01-6, Trichloroethylene;

~~(y)~~ (aa) U121, 75-69-4, Trichloromonofluoromethane;

(bb) U230, 95-95-4, 2,4,5-Trichlorophenol;

(cc) U231, 88-06-2, 2,4,6-Trichlorophenol;

~~(z)~~ (dd) U234, 99-35-4, sym-Trinitrobenzene: (R,T);

~~(aa)~~ (ee) U182, 123-63-7, 1,3,5-Trioxane, 2,4,6-trimethyl-;

~~(bb)~~ (ff) U235, 126-72-7, Tris (2,3-dibromopropyl) phosphate; and

~~(cc)~~ (gg) U236, 72-57-1, Trypan blue.

(19) Hazardous wastes from commercial chemical products beginning with the letter U:

~~(a) U237, Uracil-5[bis(2-chloroethyl)amino]-;~~ and

~~(b)~~ U237, 66-75-1, Uracil mustard;

(b) U176, 759-73-9, Urea, N-ethyl-N-nitroso-; and

(c) U177, 684-93-5, Urea, N-methyl-N-nitroso-.

(20) Hazardous wastes from commercial chemical products beginning with the letter V: U043, 75-01-4, Vinyl

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chloride.

(21) Hazardous wastes from commercial chemical products beginning with the letter W: U248, 81-81-2, Warfarin when present at concentrations of 0.3 percent or less.

(22) Hazardous wastes from commercial chemical products beginning with the letter X: U239, 1330-20-7, Xylene: (I).

(23) Hazardous wastes from commercial chemical products beginning with the letter Y: U200, 50-55-5, Yohimban-16-carboxylic acid, 11, 17-dimethoxy-18-[(3,4,5-trimethoxy benzoyl)oxy]-, methyl ester~~7~~.

(24) Hazardous wastes from commercial chemical products beginning with the letter Z: U249, 1314-84-7, Zinc phosphide when present at concentrations of 10 percent or less.

Subp. 5. [Unchanged.]

7045.0141 HAZARDOUS CONSTITUENTS.

Subpart 1. **Scope.** Hazardous constituents and their corresponding chemical abstracts numbers, if known, are listed in subparts 2 to 22.

Subp. 2. **"A" constituents.** Hazardous constituents beginning with the letter A are as follows:

A. Acetonitrile, 75-05-8;

B. Acetophenone, 98-86-2;

~~C. 3-(alpha-Acetonylbenzyl)-4-hydroxycoumarin and salts;~~

~~D.~~ 2-Acetylaminofluorene, 53-96-3;

~~E.~~ D. Acetyl chloride, 75-36-5;

~~F.~~ E. 1-Acetyl-2-thiourea, 591-08-2;

~~G.~~ F. Acrolein, 107-02-8;

~~H.~~ G. Acrylamide, 79-06-1;

~~I.~~ H. Acrylonitrile, 107-13-1;

~~J.~~ I. Aflatoxins, 1402-68-2;

J. Aldicarb, 116-06-3;

K. Aldrin, 309-00-2;

L. Allyl alcohol, 107-18-6;

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M. Allyl chloride, 107-05-1;

N. Aluminum phosphide, 20859-73-8;

~~N.~~ O. 4-Aminobiphenyl, 92-67-1;

~~O.--6-Amino-1,1a,2,8,8a,8b-hexahydro-8-(hydroxymethyl)-8a-methoxy-5-methylcarbamate-azirino(2',3':3,4)pyrrolo(1,2-a)indole-4,7-dione,-(ester),-(Mitomycin-C),~~

P. 5-(Aminomethyl)-3-isoxazolol, 2763-96-4;

Q. 4-Aminopyridine, 504-24-5;

R. Amitrole, 61-82-5;

S. Ammonium vanadate, 7803-55-6;

~~R.~~ T. Aniline, 62-53-3;

~~S.~~ U. Antimony and compounds not otherwise specified in this list, 7440-36-0;

~~T.~~ V. Aramite, 140-57-8;

~~U.~~ W. Arsenic and compounds not otherwise specified in this list, 7440-38-2;

~~V.~~ X. Arsenic acid, 7778-39-4;

~~W.~~ Y. Arsenic pentoxide, 1303-28-2;

~~X.~~ Z. Arsenic trioxide, 1327-53-3;

~~Y.~~ AA. Auramine, 492-80-8; and

~~Z.~~ BB. Azaserine, 115-02-6.

Subp. ~~2.~~ 3. "B" constituents. Hazardous constituents beginning with the letter B are as follows:

A. Barium and compounds not otherwise specified in this list, 7440-39-3;

B. Barium cyanide, 542-62-1;

C. Benz[c]acridine, 225-51-4;

D. Benz[a]anthracene, 56-55-3;

E. Benzal chloride, 98-87-3;

F. Benzene, 71-43-2;

~~F.--Benzene,-2-amino-1-methyl-(o-Toluidine),~~

G. Benzene,-4-amino-1-methyl-(p-Toluidine),

H. Benzenearsonic acid, 98-05-5;

~~I.--Benzene,-dichloromethyl-,~~

~~J.--Benzenethiol,~~

~~K.~~ H. Benzidine, 92-87-5;

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~~L.~~ I. Benzo[b]fluoranthene, 205-99-2;

~~M.~~ J. Benzo[j]fluoranthene, 205-82-3;

~~N.~~ K. Benzo[a]pyrene, 50-32-8;

~~O.~~ L. p-Benzoquinone, 106-51-4;

~~P.~~ M. Benzotrichloride, 98-07-7;

~~Q.~~ N. Benzyl chloride, 100-44-7;

~~R.~~ O. Beryllium and compounds not otherwise specified in this list, 7440-41-7;

~~S.--Bis(2-chloroethoxy)methane;~~

P. Bis(2-chloromethoxy)ethane, 111-91-1;

~~T.~~ Q. Bis(2-chloroethyl) ether, 111-44-4;

~~U.--N,N-Bis(2-chloroethyl)-2-naphthylamine;~~

~~V.~~ R. Bis(2-chloroisopropyl) ether, 39638-32-9;

~~W.~~ S. Bis(chloromethyl) ether, 542-88-1;

~~X.~~ T. Bis(2-ethylhexyl) phthalate, 117-81-7;

~~Y.~~ U. Bromoacetone, 598-31-2;

~~Z.~~ V. ~~Bromomethane~~ Bromoform, 75-25-2;

~~AA.~~ W. 4-Bromophenyl phenyl ether, 101-55-3;

~~BB.~~ X. Brucine, 357-57-3; and

~~CC.--2-Butanone peroxide;~~

~~DD.~~ Y. Butyl benzyl phthalate; ~~and~~

~~EE.--2-sec-Butyl-4,6-dinitrophenol (DNBP), 85-68-7.~~

Subp. ~~3.~~ 4. "C" constituents. Hazardous constituents beginning with the letter C are as follows:

A. Cacodylic acid, 75-60-5;

B. Cadmium and compounds not otherwise specified in this list, 7440-43-9;

~~B.~~ C. Calcium chromate, 13765-19-0;

~~C.~~ D. Calcium cyanide, 592-01-8;

~~D.~~ E. Carbon disulfide, 75-15-0;

~~E.~~ F. Carbon oxyfluoride, 353-50-4;

G. Carbon tetrachloride, 56-23-5;

~~F.~~ H. Chloral, 75-87-6;

~~G.~~ I. Chlorambucil, 305-03-3;

~~H.~~ J. Chlordane (alpha and gamma isomers), 57-74-9;

~~I.~~ K. Chlorinated benzenes not otherwise specified in

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this list, ...;

~~J.~~ L. Chlorinated ethane not otherwise specified in this list, ...;

~~K.~~ M. Chlorinated fluorocarbons not otherwise specified in this list, ...;

~~L.~~ N. Chlorinated naphthalene not otherwise specified in this list, ...;

~~M.~~ O. Chlorinated phenol not otherwise specified in this list, ...;

P. Chlornaphazine, 494-03-1;

~~N.~~ Q. Chloroacetaldehyde, 107-20-0;

~~O.~~ R. Chloroalkyl ethers not otherwise specified in this list, ...;

~~P.~~ S. p-Chloroaniline, 106-47-8;

~~Q.~~ T. Chlorobenzene, 108-90-7;

~~R.~~ U. Chlorobenzilate, 510-15-6;

~~S. 2-Chloro-1,3-butadiene (chloroprene);~~

~~T.~~ V. p-Chloro-m-cresol, 59-50-7;

~~U. 1-Chloro-2,3-epoxybutane;~~

~~V.~~ W. 1-Chloro-2,3-epoxypropane, 106-89-8;

~~W.~~ X. 2-Chloroethyl vinyl ether, 110-75-8;

~~X.~~ Y. Chloroform, 67-66-3;

~~Y. Chloromethane;~~

Z. Chloromethyl methyl ether, 107-30-2;

AA. ~~2-Chloronaphthalene~~ beta-Chloronaphthalene, 91-58-7;

BB. ~~2-Chlorophenol~~ o-Chlorophenol, 95-57-8;

CC. 1-(o-Chlorophenyl)thiourea, 5344-82-1;

DD. ~~3-Chloropropene (allyl chloride)~~ Chloroprene, 126-99-8;

EE. 3-Chloropropionitrile, 542-76-7;

FF. Chromium and compounds not otherwise specified in this list, 7440-47-3;

GG. Chrysene, 218-01-9;

HH. Citrus red No. 2, 6358-53-8;

II. Coal tars, 8005-45-2;

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JJ. Copper cyanide, 544-92-3;

KK. Creosote, 8001-58-9;

LL. Cresols (Cresylic acid), 1319-77-3;

MM. Crotonaldehyde, 4170-30-3;

NN. Cyanides (soluble salts and complexes) not otherwise specified in this list, ...;

OO. Cyanogen, 460-19-5;

PP. Cyanogen bromide, 506-68-3;

QQ. Cyanogen chloride, 506-77-4;

RR. Cycasin, 14901-08-7;

SS. 2-Cyclohexyl-4,6-dinitrophenol, 131-89-5; and

TT. Cyclophosphamide, 50-18-0.

Subp. ~~4.~~ 5. "D" constituents. Hazardous constituents beginning with the letter D are as follows:

A. 2,4-D, salts and esters, 94-75-7;

B. Daunomycin, 20830-81-3;

~~B.~~ C. DDD ~~(1,1-(2,2-dichloroethylidene)-bis-4-chlorobenzene)~~, 72-54-8;

~~C.~~ D. DDE ~~(Ethylene,-1,1-dichloro-2,2-bis (4-chlorophenyl))~~, 72-55-9;

~~D.~~ E. DDT ~~(1,1,1-(2,2,2-trichloroethylidene)-bis-4-chlorobenzene)~~, 50-29-3;

~~E.~~ F. Diallate, 2303-16-4;

~~F.~~ G. Dibenz[a,h]acridine, 226-36-8;

~~G.~~ H. Dibenz[a,j]acridine, 224-42-0;

~~H.~~ I. Dibenz[a,h]anthracene, 53-70-3;

~~I.~~ J. 7H-Dibenzo[c,g]carbazole, 194-59-2;

~~J.~~ K. Dibenzo[a,e]pyrene, 192-65-4;

~~K.~~ L. Dibenzo[a,h]pyrene, 189-64-0;

~~L.~~ M. Dibenzo[a,i]pyrene, 189-55-9;

~~M.~~ N. 1,2-Dibromo-3-chloropropane, 96-12-8;

~~N.--1,2-Dibromoethane,~~

O. ~~Dibromomethane,~~

~~P.--Di-n-butyl-phthalate~~ Dibutylphthalate, 84-74-2;

~~O.~~ P. o-Dichlorobenzene, 95-50-1;

~~R.~~ Q. m-Dichlorobenzene, 541-73-1;

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~~S.~~ R. p-Dichlorobenzene, 106-46-7;

~~T.~~ S. Dichlorobenzene not otherwise specified in this list, 25321-22-6;

~~U.~~ T. 3,3'-Dichlorobenzidine, 91-94-1;

~~V.~~ U. 1,4-Dichloro-2-butene, 764-41-0;

~~W.~~ V. Dichlorodifluoromethane, 75-71-8;

~~X. 1,1-Dichloroethane;~~

~~Y. 1,2-Dichloroethane;~~

~~Z.~~ W. ~~trans-1,2-Dichloroethene~~ 1,2-Dichloroethylene, 156-60-5;

~~AA.~~ X. Dichloroethylene not otherwise specified in this list, 25323-30-2;

~~BB.~~ Y. 1,1-Dichloroethylene, 75-35-4;

~~CC. Dichloromethane;~~

~~DD.~~ Z. 2,4-Dichlorophenol, 120-83-2;

~~EE.~~ AA. 2,6-Dichlorophenol, 87-65-0;

~~FF. 2,4-Dichlorophenoxyacetic acid, salts and esters (2,4-D);~~

~~GG.~~ BB. Dichlorophenylarsine, 696-28-6;

~~HH.~~ CC. Dichloropropane not otherwise specified in this list, 26638-19-7;

~~II. 1,2-Dichloropropane;~~

~~JJ.~~ DD. Dichloropropanol not otherwise specified in this list, 26545-73-3;

~~KK.~~ EE. Dichloropropene not otherwise specified in this list, 26952-23-8;

~~LL.~~ FF. 1,3-Dichloropropene, 542-75-6;

~~MM.~~ GG. Dieldrin, 60-57-1;

~~NN.~~ HH. 1,2:3,4-Diepoxybutane, 1464-53-5;

~~OO.~~ II. Diethylarsine, 692-42-2;

~~PP.~~ JJ. 1,4-Diethyleneoxide, 123-91-1;

KK. N,N'-Diethylhydrazine, 1615-80-1;

~~QQ.~~ LL. O,O-Diethyl S-methyl ester of ~~phosphorodithioic acid~~ dithiophosphate, 3288-58-2;

~~RR.~~ MM. ~~O,O-Diethylphosphoric acid, O-p-nitrophenyl~~ ester Diethyl-p-nitro phenyl phosphate, 311-45-5;

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~~SS.~~ NN. Diethylphthalate, 84-66-2;

~~TT.~~ OO. ~~O,O-Diethyl-O-(2-pyrazinyl)phosphorothioate~~ O,O-Diethyl O-pyrazinyl phosphorothioate, 297-97-2;

~~UU.~~ PP. ~~Diethylstilbestrol~~ Diethylstilbesterol, 56-53-1;

~~VV.~~ QQ. Dihydrosafrole, 94-58-6;

~~WW.~~ RR. 3,4-Dihydroxy-alpha-(methylamino)methyl benzyl alcohol, 329-65-7;

~~XX.~~ SS. Diisopropylfluorophosphate (DFP), 55-91-4;

~~YY.~~ TT. Dimethoate, 60-51-5;

~~ZZ.~~ UU. 3,3'-Dimethoxybenzidine, 119-90-4;

~~AAA.~~ VV. p-Dimethylaminoazobenzene, 60-11-7;

~~BBB.~~ WW. 7,12-Dimethylbenz[a]anthracene, 57-97-6;

~~CCC.~~ XX. 3,3'-Dimethylbenzidine, 119-93-7;

~~DDD.~~ YY. Dimethylcarbamoyl chloride, 79-44-7;

~~EEE.~~ ZZ. 1,1-Dimethylhydrazine, 57-14-7;

~~FFF.~~ AAA. 1,2-Dimethylhydrazine, 540-73-8;

~~GGG.--3,3-Dimethyl-1-(methylthio)-2-butanone-O-[(methylamino)-carbonyl-oxime];~~

~~HHH.~~ BBB. alpha, alpha-Dimethylphenethylamine, 122-09-8;

~~III.~~ CCC. 2,4-Dimethylphenol, 105-67-9;

~~JJJ.~~ DDD. Dimethylphthalate, 131-11-3;

~~KKK.~~ EEE. Dimethyl sulfate, 77-78-1;

~~LLL.~~ FFF. Dinitrobenzene not otherwise specified in this list, 25154-54-5;

~~MMM.~~ GGG. 4,6-Dinitro-o- cresol and salts, 534-52-1;

~~NNN.~~ HHH. 2,4-Dinitrophenol, 51-28-5;

~~OOO.~~ III. 2,4-Dinitrotoluene, 121-14-2;

~~PPP.~~ JJJ. 2,6-Dinitro toluene, 606-20-2;

KKK. Dinoseb, 88-85-7;

~~QQQ.~~ LLL. Di-n-octylphthalate, 117-84-0;

~~RRR.--1,4-Dioxane;~~

~~SSS.~~ MMM. Diphenylamine, 122-39-4;

~~TTT.~~ NNN. 1,2-Diphenylhydrazine, 122-66-7;

~~UUU.~~ OOO. Di-n-propylnitrosamine, 621-64-7;

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~~VVV.~~ PPP. Disulfoton, 298-04-4; and

~~WWW.~~ QQQ. ~~2,4-Dithiobiuret~~ Dithiobiuret, 541-53-7.

Subp. ~~5.~~ 6. "E" constituents. Hazardous constituents beginning with the letter E are as follows:

A. Endosulfan, 115-29-7;

B. Endothal, 145-73-3;

C. Endrin ~~and metabolites~~, 72-20-8;

~~C.~~ D. Ethyl carbamate, 51-79-6;

~~D.~~ E. Ethyl cyanide, 107-12-0;

~~E.~~ F. Ethylenebisdithiocarbamic acid, salts and esters, 111-54-6;

G. Ethylene dibromide, 106-93-4;

H. Ethylene dichloride, 107-06-2;

~~F.~~ I. Ethylene glycol monoethyl ether (Ethanol, 2-ethoxy), 110-80-5;

~~G.~~ J. Ethyleneimine, 151-56-4;

~~H.~~ K. Ethylene oxide, 75-21-8;

~~I.~~ L. Ethylenethiourea, 96-45-7;

M. Ethylidene dichloride, 75-34-3;

~~J.~~ N. Ethyl methacrylate, 97-63-2; and

~~K.~~ O. Ethylmethane sulfonate, 62-50-0.

Subp. ~~6.~~ 7. "F" constituents. Hazardous constituents beginning with the letter F are as follows:

A. Famphur, 52-85-7;

B. Fluoranthene, 206-44-0;

~~B.~~ C. Fluorine, 7782-41-4;

~~C. 2-Fluoroacetamide~~ D. Fluoroacetamide, 640-19-7;

~~D.~~ E. Fluoroacetic acid, sodium salt, 62-74-8; and

~~E.~~ F. Formaldehyde~~, and~~, 50-00-0

~~F. Formic acid.~~

Subp. ~~7.~~ 8. "G" constituents. Hazardous constituents beginning with the letter G are as follows:

Glycidylaldehyde, 765-34-4.

Subp. ~~8.~~ 9. "H" constituents. Hazardous constituents beginning with the letter H are as follows:

A. Halomethane not otherwise specified in this list,

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.....;

B. Heptachlor, 76-44-8;

C. Heptachlor epoxide (alpha, beta, and gamma isomers), 1024-57-3;

D. Hexachlorobenzene, 118-74-1;

E. Hexachlorobutadiene, 87-68-3;

~~F. Hexachlorocyclohexane (all isomers);~~

~~G.~~ Hexachlorocyclopentadiene, 77-47-4;

~~H.~~ G. Hexachlorodibenzo-p-dioxins, ...;

~~I.~~ H. Hexachlorodibenzofurans, ...;

~~J.~~ I. Hexachloroethane, 67-72-1;

~~K. 1,2,3,4,10,10-Hexachloro-1,4,4a,5,8,8a-hexahydro-1,4:5,8-endo,endo-dimethanonaphthalene;~~

~~L.~~ J. Hexachlorophene, 70-30-4;

~~M.~~ K. Hexachloropropene, 1888-71-7;

~~N.~~ L. Hexaethyltetraphosphate, 757-58-4;

~~O.~~ M. Hydrazine, 302-01-2;

~~P.~~ N. Hydrogen cyanide (Hydrocyanic acid), 74-90-8;

~~Q.~~ O. Hydrogen fluoride (Hydrofluoric acid), 7664-39-3; and

~~R.~~ P. Hydrogen sulfide; and, 7783-06-4

~~S. Hydroxydimethylarsine oxide.~~

Subp. ~~9.~~ 10. "I" constituents. Hazardous constituents beginning with the letter I are as follows:

A. Indeno(1,2,3cd)pyrene, 193-39-5;

~~B. Iodomethane;~~

~~C.~~ Iron dextran, 9004-66-4;

~~D. Isocyanic acid, methyl ester;~~

~~E.~~ C. Isobutyl alcohol, 78-83-1; and

D. Isodrin, ...; and

~~F.~~ E. Isosafrole, 120-58-1.

Subp. ~~10.~~ 11. "K" constituents. Hazardous constituents beginning with the letter K are as follows: Kepone, 143-50-0.

Subp. ~~11.~~ 12. "L" constituents. Hazardous constituents beginning with the letter L are as follows:

A. Lasiocarpine, 303-34-4;

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B. Lead and compounds not otherwise specified in this list, 7439-92-1;

C. Lead acetate, 301-04-2;

D. Lead phosphate, 7446-27-7; and

E. Lead subacetate, 1335-32-6; and

F. Lindane, 58-89-9.

Subp. ~~12.~~ 13. "M" constituents. Hazardous constituents beginning with the letter M are as follows:

A. Maleic anhydride, 108-31-6;

B. Maleic hydrazide, 123-33-1;

C. Malononitrile, 109-77-3;

D. Melphalan, 148-82-3;

E. Mercury fulminate, 628-86-4;

F. Mercury and compounds not otherwise specified in this list, 7439-97-6;

G. Methacrylonitrile, 126-98-7;

H. ~~Methanethiol;~~

~~I.~~ Methapyrilene, 91-80-5;

~~J.~~ I. Methomyl, 16752-77-5;

~~K.~~ J. Methoxychlor, 72-43-5;

K. Methyl bromide, 74-83-9;

L. ~~2-Methylaziridine~~ Methyl chloride, 74-87-3;

M. Methylchlorocarbonate, 79-22-1;

N. Methyl chloroform, 71-55-6;

~~M.~~ O. 3-Methylcholanthrene, 56-49-5;

~~N.--Methyl-chlorocarbonate;~~

~~O.~~ P. 4,4'-Methylenebis(2-chloroaniline), 101-14-4;

Q. Methylene bromide, 74-95-3;

R. Methylene chloride, 75-09-2;

~~P.~~ S. Methyl ethyl ketone (MEK), 78-93-3;

T. Methyl ethyl ketone peroxide, 1338-23-4;

~~Q.~~ U. Methyl hydrazine, 60-34-4;

V. Methyl iodide, 74-88-4;

W. Methyl isocyanate, 624-83-9;

~~R.~~ X. 2-Methyllactonitrile, 75-86-5;

~~S.~~ Y. Methyl methacrylate, 80-62-6;

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~~P.~~ Z. Methyl methanesulfonate, 66-27-3;

~~Q.--2-Methyl-2-(methylthio)propionaldehyde-~~
~~o-(methylcarbonyl)-oxime;~~

~~R.--N-Methyl-N'-nitro-N-nitrosoguanidine;~~

~~S.~~ AA. Methyl parathion, 298-00-0;

~~K.~~ BB. Methylthiouracil, 56-04-2; and

CC. Mitomycin C, 50-07-7;

DD. MNNG, 70-25-7; and

~~T.~~ EE. Mustard gas, 505-60-2.

Subp. ~~13.~~ 14. "N" constituents. Hazardous constituents beginning with the letter N are as follows:

A. Naphthalene, 91-20-3;

B. 1,4-Naphthoquinone, 130-15-4;

C. ~~1-Naphthylamine~~ alpha-Naphthylamine, 134-32-7;

D. ~~2-Naphthylamine~~ beta-Naphthylamine, 91-59-8;

E. ~~1-Naphthyl-2-thiourea~~ alpha-Naphthylthiourea, 86-88-4;

F. Nickel and compounds not otherwise specified in this list, 7440-02-0;

G. Nickel carbonyl, 13463-39-3;

H. Nickel cyanide, 557-19-7;

I. Nicotine and salts, 54-11-5;

J. Nitric oxide, 10102-43-9;

K. p-Nitroaniline, 100-01-6;

L. Nitrobenzene, 98-95-3;

M. Nitrogen dioxide, 10102-44-0;

N. Nitrogen mustard and hydrochloride salt, 51-75-2;

O. Nitrogen mustard N-oxide and hydrochloride salt, 126-85-2;

P. Nitroglycerin, 55-63-0;

Q. ~~4-Nitrophenol~~ P-Nitrophenol, 100-02-7;

R. 2-Nitropropane (Propane, 2-nitro), 79-46-9;

S. 4-Nitroquinoline-1-oxide, 56-57-5;

T. Nitrosamine not otherwise specified in this list, 35576-91-1;

U. N-Nitrosodi-n-butylamine, 924-16-3;

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V. N-Nitrosodiethanolamine, 1116-54-7;

W. N-Nitrosodiethylamine, 55-18-5;

X. N-Nitrosodimethylamine, 62-75-9;

Y. N-Nitroso-N-ethyl urea, 759-73-9;

Z. N-Nitrosomethylethylamine, 10595-95-6;

AA. N-Nitroso-N-methylurea, 684-93-5;

BB. N-Nitroso-N-methylurethane, 615-53-2;

CC. N-Nitrosomethylvinylamine, 4549-40-0;

DD. N-Nitrosomorpholine, 59-89-2;

EE. N-Nitrosonornicotine, 16543-55-8;

FF. N-Nitrosopiperidine, 100-75-4;

GG. N-Nitrosopyrrolidine, 930-55-2;

HH. N-Nitrososarcosine, 13256-22-9; and

II. 5-Nitro-o-toluidine, 99-55-8.

Subp. ~~14.~~ 15. "O" constituents. Hazardous constituents beginning with the letter O are as follows:

A. Octamethylpyrophosphoramide, 152-16-9; and

B. Osmium tetroxide~~,~~ ~~and~~, 20816-12-0

~~C. 7-Oxabicyclo[2.2.1]heptane-2,3-dicarboxylic acid.~~

Subp. ~~15.~~ 16. "P" constituents. Hazardous constituents beginning with the letter P are as follows:

A. Paraldehyde, 123-63-7;

B. Parathion, 56-38-2;

C. Pentachlorobenzene, 608-93-5;

D. Pentachlorodibenzo-p-dioxins, ...;

E. Pentachlorodibenzofurans, ...;

F. Pentachloroethane, 76-01-7;

G. Pentachloronitrobenzene (PCNB), 82-68-8;

H. Pentachlorophenol, 87-86-5;

I. Phenacetin, 62-44-2;

J. Phenol, 108-95-2;

K. Phenylenediamine, 25265-76-3;

L. Phenylmercury acetate, 62-38-4;

M. ~~N-Phenylthiourea~~ Phenylthiourea, 103-85-5;

N. Phorate, 298-02-2;

O. Phosgene, 75-44-5;

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~~O.~~ P. Phosphine, 7803-51-2;

~~P.--Phosphorodithioic acid, O,O-diethyl S-((ethylthio)methyl) ester (Phorate);~~

~~Q. Phosphorothioic acid, O,O-dimethyl O-(p-(dimethylamino--sulfonyl)phenyl)-ester;~~

~~R.~~ Phthalic acid esters not otherwise specified in this list, ...;

~~S.~~ R. Phthalic anhydride, 85-44-9;

~~T.~~ S. 2-Picoline, 109-06-8;

~~U.~~ T. Polychlorinated ~~biphenyl~~ biphenyls not otherwise specified in this list, ...;

~~V.~~ U. Potassium cyanide, 151-50-8;

~~W.~~ V. Potassium silver cyanide, 506-61-6;

~~X.~~ W. Pronamide, 23950-58-5;

~~Y.~~ X. 1,3-Propane sultone, 1120-71-4;

~~Z.~~ Y. n-Propylamine, 107-10-8;

Z. Propargyl alcohol, 107-19-7;

AA. Propylene dichloride, 78-87-5;

BB. 1,2-Propylenimine, 75-55-8;

~~AA.~~ CC. Propylthiouracil, 51-52-5; and

~~BB.--2-Propyn-1-ol; and~~

~~CC.~~ DD. Pyridine, 110-86-1.

Subp. ~~16.~~ 17. "R" constituents. Hazardous constituents beginning with the letter R are as follows:

A. ~~Reserpine~~ Reserpinen, 50-55-5; and

B. Recorcinol, 108-46-3.

Subp. ~~17.~~ 18. "S" constituents. Hazardous constituents beginning with the letter S are as follows:

A. Saccharin and salts, 81-07-2;

B. Safrole, 94-59-7;

C. Selenium dioxide (Selenious acid), 7783-00-8;

D. Selenium and compounds not otherwise specified in this list, 7782-49-2;

E. Selenium sulfide, 7446-34-6;

F. Selenourea, 630-10-4;

G. Silver and compounds not otherwise specified in

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this list, 7440-22-4;

H. Silver cyanide, 506-64-9;

I. Silvex (2,4,5-TP), 93-72-1;

J. Sodium cyanide, 143-33-9;

~~J.~~ K. Streptozotocin, 18883-66-4;

~~K.~~ L. Strontium sulfide, 1314-96-1; and

~~L.~~ M. Strychnine and salts, 57-24-9.

Subp. ~~18.~~ 19. "T" constituents. Hazardous constituents beginning with the letter T are as follows:

A. 1,2,4,5-Tetrachlorobenzene, 95-94-3;

B. 2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD), 1746-01-6;

C. Tetrachlorodibenzo-p-dioxins ~~not otherwise specified in this list~~, ...;

D. Tetrachlorodibenzofurans, ...;

E. Tetrachloroethane not otherwise specified in this list, 25322-20-7;

F. 1,1,1,2-Tetrachloroethane, 630-20-6;

G. 1,1,2,2-Tetrachloroethane, 79-34-5;

H. Tetrachloroethylene, 127-18-4;

I. ~~Tetrachloromethane;~~

~~J.~~ 2,3,4,6-Tetrachlorophenol, 58-90-2;

~~K.~~ J. Tetraethyldithiopyrophosphate, 3689-24-5;

~~L.~~ K. Tetraethyl lead, 78-00-2;

~~M.~~ L. Tetraethylpyrophosphate, 107-49-3;

~~N.~~ M. Tetranitromethane, 509-14-8;

~~O.~~ N. Thallium and compounds not otherwise specified in this list, 7440-28-0;

~~P.~~ O. Thallic oxide, 1314-32-5;

~~Q.~~ P. Thallium (I) acetate, 563-68-8;

~~R.~~ Q. Thallium (I) carbonate, 6533-73-9;

~~S.~~ R. Thallium (I) chloride, 7791-12-0;

~~T.~~ S. Thallium (I) nitrate, 10102-45-1;

~~U.~~ T. Thallium ~~selenide~~ selenite, 12039-52-0;

~~V.~~ U. Thallium (I) sulfate, 10031-59-1;

~~W.~~ V. Thioacetamide, 62-55-5;

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W. Thiofanox, 39196-18-4;

X. Thiomethanol, 74-93-1;

Y. Thiophenol, 108-98-5;

~~X.~~ Z. Thiosemicarbazide, 79-19-6;

~~Y.~~ AA. Thiourea, 62-56-6;

~~Z.~~ BB. ~~Thiuram~~ Thiram, 137-26-8;

~~AA.~~ CC. Toluene, 108-88-3;

~~BB.~~ DD. Toluenediamine, ~~N.O.S.~~ not otherwise specified in this list, 25376-45-8;

~~CC.~~ EE. 2,4-Toluenediamine, 95-80-7;

~~DD.~~ FF. 2,6-Toluenediamine, 823-40-5;

~~EE.~~ GG. 3,4-Toluenediamine, 496-72-0;

HH. Toluene diisocyanate, 584-84-9;

II. p-Toluidine, 106-49-0;

~~FF.~~ JJ. o-Toluidine hydrochloride, 636-21-5;

~~GG.--Tolylene-diisocyanate.~~

~~HH.~~ KK. Toxaphene, 8001-35-2;

~~II.--Tribromomethane.~~

~~JJ.~~ LL. 1,2,4-Trichlorobenzene, 120-82-1;

~~KK.--1,1,1-Trichloroethane.~~

~~LL.~~ MM. 1,1,2-Trichloroethane, 79-00-5;

~~MM.~~ NN. ~~Trichloroethene~~ Trichloroethylene, 79-01-6;

~~NN.~~ OO. Trichloromethanethiol, 75-70-7;

~~OO.~~ PP. Trichloromonofluoromethane, 75-69-4;

~~PP.~~ QQ. 2,4,5-Trichlorophenol, 95-95-4;

~~QQ.~~ RR. 2,4,6-Trichlorophenol, 88-06-2;

~~RR.~~ SS. 2,4,5-Trichlorophenoxyacetic acid (2,4,5-T), 93-76-5;

~~SS.--2,4,5-Trichlorophenoxypropionic acid (2,4,5-TP) (Silvex).~~

TT. Trichloropropane not otherwise specified in this list, ...;

UU. 1,2,3-Trichloropropane, 96-18-4;

VV. 0,0,0-Triethyl phosphorothioate, 126-68-1;

WW. sym-Trinitrobenzene, 99-35-4;

XX. Tris(1-azridinyl)phosphine sulfide, 52-24-4;

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YY. Tris(2,3-dibromopropyl) phosphate, 126-72-7; and

ZZ. Trypan blue, 72-57-1.

Subp. ~~19.~~ 20. "U" constituents. Hazardous constituents beginning with the letter U are as follows:

A. Uracil mustard, 66-75-1; and

B. Undecamethylenediamine,N,N'-bis(2-chlorobenzyl)-, dihydrochloride, 2056-25-9.

Subp. ~~20.~~ 21. "V" constituents. Hazardous constituents beginning with the letter V are as follows:

~~A. Vanadic acid, ammonium salt;~~

~~B.~~ Vanadium pentoxide, 1314-62-1; and

~~C.~~ B. Vinyl chloride, 75-01-4.

Subp. 22. "W" constituents. Hazardous constituents beginning with the letter W are as follows: Warfarin, 81-81-2.

Subp. ~~21.~~ 23. "Z" constituents. Hazardous constituents beginning with the letter Z are as follows:

A. Zinc cyanide, 557-21-1; and

B. Zinc phosphide, 1314-84-7.

Rule as Proposed (all new material)

7045.0143 GROUNDWATER PROTECTION HAZARDOUS CONSTITUENTS LIST.

Subpart 1. Scope. For the purposes of the groundwater protection requirements in parts 7001.0640, subpart 1, item D, subitem (2); and 7045.0484, subparts 12, item H, subitem (2), and 13, item E, the hazardous constituents are listed with their corresponding Chemical Abstract Service registry numbers in subparts 2 to 27. Where "total" is entered for the Chemical Abstract Service registry number, all species in the groundwater that contain this element are included.

Subp. 2. "A" constituents. Hazardous constituents beginning with the letter A are as follows:

A. Acenaphthene, 83-32-9;

B. Acenaphthylene, 208-96-8;

C. Acetone, 67-64-1;

D. Acetophenone, 98-86-2;

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E. Acetonitrile; Methyl cyanide, 75-05-8;

F. 2-Acetylaminofluorene; 2-AAF, 53-96-3;

G. Acrolein, 107-02-8;

H. Acrylonitrile, 107-13-1;

I. Aldrin, 309-00-2;

J. Allyl chloride, 107-05-1;

K. 4-Aminobiphenyl, 92-67-1;

L. Aniline, 62-53-3;

M. Anthracene, 120-12-7;

N. Antimony, (Total);

O. Aramite, 140-57-8; and

P. Arsenic, (Total).

Subp. 3. "B" constituents. Hazardous constituents beginning with the letter B are as follows:

A. Barium, (Total);

B. Benzene, 71-43-2;

C. Benzo[a]anthracene; Benzanthracene, 56-55-3;

D. Benzo[b]fluoranthene, 205-99-2;

E. Benzo[k]fluoranthene, 207-08-9;

F. Benzo[ghi]perylene, 191-24-2;

G. Benzo[a]pyrene, 50-32-8;

H. Benzyl alcohol, 100-51-6;

I. Beryllium, (Total);

J. alpha-BHC, 319-84-6;

K. beta-BHC, 319-85-7;

L. delta-BHC, 319-86-8;

M. gamma-BHC; Lindane, 58-89-9;

N. Bis(2-chloroethoxy)methane, 111-91-1;

O. Bis(2-chloroethyl)ether, 111-44-4;

P. Bis(2-chloro-1-methylethyl) ether; 2,2'-Dichlorodiisopropyl ether, 108-60-1;

Q. Bis(2-ethylhexyl)phthalate, 117-81-7;

R. Bromodichloromethane, 75-27-4;

S. Bromoform; Tribromomethane, 75-25-2;

T. 4-Bromophenyl phenyl ether, 101-55-3; and

U. Butyl benzyl phthalate; Benzyl butyl phthalate,

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85-68-7.

Subp. 4. **"C" constituents.** Hazardous constituents beginning with the letter C are as follows:

A. Cadmium, (Total);

B. Carbon disulfide, 75-15-0;

C. Carbon tetrachloride, 56-23-5;

D. Chlordane, 57-74-9;

E. p-Chloroaniline, 106-47-8;

F. Chlorobenzene, 108-90-7;

G. Chlorobenzilate, 510-15-6;

H. p-Chloro-m-cresol, 59-50-7;

I. Chloroethane; Ethyl chloride, 75-00-3;

J. Chloroform, 67-66-3;

K. 2-Chloronaphthalene, 91-58-7;

L. 2-Chlorophenol, 95-57-8;

M. 4-Chlorophenyl phenyl ether, 7005-72-3;

N. Chloroprene, 126-99-8;

O. Chromium, (Total);

P. Chrysene, 218-01-9;

Q. Cobalt, (Total);

R. Copper, (Total);

S. m-Cresol, 108-39-4;

T. o-Cresol, 95-48-7;

U. p-Cresol, 106-44-5; and

V. Cyanide, 57-12-5.

Subp. 5. **"D" constituents.** Hazardous constituents beginning with the letter D are as follows:

A. 2,4-D; 2,4-Dichlorophenoxyacetic acid, 94-75-7;

B. 4,4'-DDD, 72-54-8;

C. 4,4'-DDE, 72-55-9;

D. 4,4'-DDT, 50-29-3;

E. Diallate, 2303-16-4;

F. Dibenz[a,h]anthracene, 53-70-3;

G. Dibenzofuran, 132-64-9;

H. Dibromochloromethane; Chlorodibromomethane, 124-48-1;

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I. 1,2-Dibromo-3-chloropropane; DBCP, 96-12-8;

J. 1,2-Dibromoethane; Ethylene dibromide, 106-93-4;

K. Di-n-butyl phthalate, 84-74-2;

L. -Dichlorobenzene, 95-50-1;

M. m-Dichlorobenzene, 541-73-1;

N. p-Dichlorobenzene, 106-46-7;

O. 3,3'-Dichlorobenzidine, 91-94-1;

P. trans-1,4-Dichloro-2-butene, 110-57-6;

Q. Dichlorodifluoromethane, 75-71-8;

R. 1,1-Dichloroethane, 75-34-3;

S. 1,2-Dichloroethane; Ethylene dichloride, 107-06-2;

T. 1,1-Dichloroethylene; Vinylidene chloride, 75-35-4;

U. trans-1,2-Dichloroethylene, 156-60-5;

V. 2,4-Dichlorophenol, 120-83-2;

W. 2,6-Dichlorophenol, 87-65-0;

X. 1,2-Dichloropropane, 78-87-5;

Y. cis-1,3-Dichloropropene, 10061-01-5;

Z. trans-1,3-Dichloropropene, 10061-02-6;

AA. Dieldrin, 60-57-1;

BB. Diethyl phthalate, 84-66-2;

CC. 0,0-Diethyl 0-2-pyrazinyl phosphorothioate; Thionazin, 297-97-2;

DD. Dimethoate, 60-51-5;

EE. p-(Dimethylamino)azobenzene, 60-11-7;

FF. 7,12-Dimethylbenz[a]anthracene, 57-97-6;

GG. 3,3'-Dimethylbenzidine, 119-93-7;

HH. alpha, alpha-Dimethylphenethylamine, 122-09-8;

II. 2,4-Dimethylphenol, 105-67-9;

JJ. Dimethyl phthalate, 131-11-3;

KK. m-Dinitrobenzene, 99-65-0;

LL. 4,6-Dinitro-o-cresol, 534-52-1;

MM. 2,4-Dinitrophenol, 51-28-5;

NN. 2,4-Dinitrotoluene, 121-14-2;

OO. 2,6-Dinitrotoluene, 606-20-2;

PP. Dinoseb; DNBP; 2-sec-Butyl-4,6-dinitrophenol, 88-85-7;

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QQ. Di-n-octyl phthalate, 117-84-0;

RR. 1,4-Dioxane, 123-91-1;

SS. Diphenylamine, 122-39-4; and

TT. Disulfoton, 298-04-4.

Subp. 6. "E" constituents. Hazardous constituents beginning with the letter E are as follows:

A. Endosulfan I, 959-98-8;

B. Endosulfan II, 33213-65-9;

C. Endosulfan sulfate, 1031-07-8;

D. Endrin, 72-20-8;

E. Endrin aldehyde, 7421-93-4;

F. Ethylbenzene, 100-41-4;

G. Ethyl methacrylate, 97-63-2; and

H. Ethyl methanesulfonate, 62-50-0.

Subp. 7. "F" constituents. Hazardous constituents beginning with the letter F are as follows:

A. Famphur, 52-85-7;

B. Fluoranthene, 206-44-0; and

C. Fluorene, 86-73-7.

Subp. 9. "H" constituents. Hazardous constituents beginning with the letter H are as follows:

A. Heptachlor, 76-44-8;

B. Heptachlor epoxide, 1024-57-3;

C. Hexachlorobenzene, 118-74-1;

D. Hexachlorobutadiene, 87-68-3;

E. Hexachlorocyclopentadiene, 77-47-4;

F. Hexachloroethane, 67-72-1;

G. Hexachlorophene, 70-30-4;

H. Hexachloropropene, 1888-71-7; and

I. 2-Hexanone, 591-78-6.

Subp. 10. "I" constituents. Hazardous constituents beginning with the letter I are as follows:

A. Indeno(1,2,3-cd)pyrene, 193-39-5;

B. Isobutyl alcohol, 78-83-1;

C. Isodrin, 465-73-6;

D. Isophorone, 78-59-1; and

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E. Isosafrole, 120-58-1.

Subp. 12. **"K" constituents.** Hazardous constituents beginning with the letter K are as follows: Kepone, 143-50-0.

Subp. 13. **"L" constituents.** Hazardous constituents beginning with the letter L are as follows: Lead, (Total).

Subp. 14. **"M" constituents.** Hazardous constituents beginning with the letter M are as follows:

A. Mercury, (Total);

B. Methacrylonitrile, 126-98-7;

C. Methapyrilene, 91-80-5;

D. Methoxychlor, 72-43-5;

E. Methyl bromide; Bromomethane, 74-83-9;

F. Methyl chloride; Chloromethane, 74-87-3;

G. 3-Methylcholanthrene, 56-49-5;

H. Methylene bromide; Dibromomethane, 74-95-3;

I. Methylene chloride; Dichloromethane, 75-09-2;

J. Methyl ethyl ketone; MEK, 78-93-3;

K. Methyl iodide; Iodomethane, 74-88-4;

L. Methyl methacrylate, 80-62-6;

M. Methyl methanesulfonate, 66-27-3;

N. 2-Methylnaphthalene, 91-57-6;

O. Methyl parathion; Parathion methyl, 298-00-0; and

P. 4-Methyl-2-pentanone; Methyl isobutyl ketone, 108-10-1.

Subp. 15. **"N" constituents.** Hazardous constituents beginning with the letter N are as follows:

A. Naphthalene, 91-20-3;

B. 1,4-Naphthoquinone, 130-15-4;

C. 1-Naphthylamine, 134-32-7;

D. 2-Naphthylamine, 91-59-8;

E. Nickel, (Total);

F. o-Nitroaniline, 88-74-4;

G. m-Nitroaniline, 99-09-2;

H. p-Nitroaniline, 100-01-6;

I. Nitrobenzene, 98-95-3;

J. o-Nitrophenol, 88-75-5;

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K. p-Nitrophenol, 100-02-7;

L. 4-Nitroquinoline 1-oxide, 56-57-5;

M. N-Nitrosodi-n-butylamine, 924-16-3;

N. N-Nitrosodiethylamine, 55-18-5;

O. N-Nitrosodimethylamine, 62-75-9;

P. N-Nitrosodiphenylamine, 86-30-6;

Q. N-Nitrosodipropylamine; Di-n-propylnitrosamine, 621-64-7;

R. N-Nitrosomethyl ethylamine, 10595-95-6;

S. N-Nitrosomorpholine, 59-89-2;

T. N-Nitrosopiperidine, 100-75-4;

U. N-Nitrosopyrrolidine, 930-55-2; and

V. 5-Nitro-o-toluidine, 99-55-8.

Subp. 17. **"P" constituents.** Hazardous constituents beginning with the letter P are as follows:

A. Parathion, 56-38-2;

B. Polychlorinated biphenyls; PCBs, 1336-36-3;

C. Polychlorinated dibenzo-p-dioxins; PCDDs, ...;

D. Polychlorinated dibenzofurans; PCDFs, ...;

E. Pentachlorobenzene, 608-93-5;

F. Pentachloroethane, 76-01-7;

G. Pentachloronitrobenzene, 82-68-8;

H. Pentachlorophenol, 87-86-5;

I. Phenacetin, 62-44-2;

J. Phenanthrene, 85-01-8;

K. Phenol, 108-95-2;

L. p-Phenylenediamine, 106-50-3;

M. Phorate, 298-02-2;

N. 2-Picoline, 109-06-8;

O. Pronamide, 23950-58-5;

P. Propionitrile; Ethyl cyanide, 107-12-0;

Q. Pyrene, 129-00-0; and

R. Pyridine, 110-86-1.

Subp. 20. **"S" constituents.** Hazardous constituents beginning with the letter S are as follows:

A. Safrole, 94-59-7;

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B. Selenium, (Total);

C. Silver, (Total);

D. Silvex; 2,4,5-TP, 93-72-1;

E. Styrene, 100-42-5; and

F. Sulfide, 18496-25-8.

Subp. 21. "T" constituents. Hazardous constituents beginning with the letter T are as follows:

A. 2,4,5-T; 2,4,5-Trichlorophenoxyacetic acid, 93-76-5;

B. 2,3,7,8-TCDD; 2,3,7,8-Tetrachlorodibenzo-p-dioxin, 1746-01-6;

C. 1,2,4,5-Tetrachlorobenzene, 95-94-3;

D. 1,1,1,2-Tetrachloroethane, 630-20-6;

E. 1,1,2,2-Tetrachloroethane, 79-34-5;

F. Tetrachloroethylene; Perchloroethylene; Tetrachloroethene, 127-18-4;

G. 2,3,4,6-Tetrachlorophenol, 58-90-2;

H. Tetraethyl dithiopyrophosphate; Suifotepp, 3689-24-5;

I. Thallium, (Total);

J. Tin, (Total);

K. Toluene, 108-88-3;

L. o-Toluidine, 95-53-4;

M. Toxaphene, 8001-35-2;

N. 1,2,4-Trichlorobenzene, 120-82-1;

O. 1,1,1-Trichloroethane; Methylchloroform, 71-55-6;

P. 1,1,2-Trichloroethane, 79-00-5;

Q. Trichloroethylene; Trichloroethene, 79-01-6;

R. Trichlorofluoromethane, 75-69-4;

S. 2,4,5-Trichlorophenol, 95-95-4;

T. 2,4,6-Trichlorophenol, 88-06-2;

U. 1,2,3-Trichloropropane, 96-18-4;

V. 0,0,0-Triethyl phosphorothioate, 126-68-1; and

W. sym-Trinitrobenzene, 99-35-4.

Subp. 23. "V" constituents. Hazardous constituents beginning with the letter V are as follows:

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A. Vanadium, (Total);

B. Vinyl acetate, 108-05-4; and

C. Vinyl chloride, 75-01-4.

Subp. 25. **"X" constituents.** Hazardous constituents beginning with the letter X are as follows: Xylene(total), 1330-20-7.

Subp. 27. **"Z" constituents.** Hazardous constituents beginning with the letter Z are as follows: Zinc, (Total).

Rules as Proposed

7045.0484 GROUNDWATER PROTECTION.

Subpart 1. to 11. [Unchanged.]

Subp. 12. **Detection monitoring program.** An owner or operator required to establish a detection monitoring program under this part shall perform the following:

A. to G. [Unchanged.]

H. If the owner or operator determines that there is a statistically significant increase for monitoring parameters or hazardous constituents specified under item A, or item E, subitem (2), where applicable, at any monitoring well at the compliance point, the owner or operator shall:

(1) [Unchanged.]

(2) Immediately sample the groundwater in all monitoring wells and determine ~~the concentration of all~~ whether hazardous constituents identified in the list in part 7045.0143 are present and, if they are present, determine the concentration for each.

(3) Determine a background ~~values~~ value for ~~all~~ each hazardous ~~constituents~~ constituent that has been found at the compliance point under subitem (2), as follows:

(a) to (c) [Unchanged.]

(4) [Unchanged.]

(5) Immediately institute a compliance monitoring program as specified in the permit and, within 90 days, submit to the agency an application for permit modification if it is

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necessary to revise the compliance monitoring program to meet the requirements of subpart 13. The application must include the following information:

(a) an identification of the concentration of any each hazardous ~~constituents~~ constituent found in the groundwater at each monitoring well at the compliance point;

(b) to (d) [Unchanged.]

I. to K. [Unchanged.]

Subp. 13. **Compliance monitoring program.** An owner or operator required to establish a compliance monitoring program under this part shall perform the following:

A. to D. [Unchanged.]

E. The owner or operator shall analyze samples from all monitoring wells at the compliance point ~~for all~~ to determine whether hazardous constituents identified in the list in part 7045.0143 are present and, if they are present, determine the concentration of each. The analysis must be conducted at least annually to determine whether additional part 7045.0143 hazardous constituents ~~other than those specified under item B~~ are present in the monitoring wells. The owner or operator shall report the concentrations of all hazardous constituents to the commissioner within seven days after completion of the analysis. The agency shall require a permit modification to include additional hazardous constituents, which have been detected in the groundwater, in all subsequent quarterly groundwater monitoring under item D.

F. to K. [Unchanged.]

Subp. 14. [Unchanged.]

7045.0494 NOTICE TO LOCAL LAND AUTHORITY.

Subpart 1. [Unchanged.]

Subp. 2. **Post-closure notices.** Within 60 days after certification of closure of each hazardous waste disposal unit, the owner or operator shall submit to the local zoning authority or the authority with jurisdiction over local land use and to the commissioner a record of the type, location, and quantity of

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hazardous waste disposed of within each cell or other disposal unit of the facility. For hazardous wastes disposed of before January 12, 1981, the owner or operator shall comply with all requirements of Code of Federal Regulations, title 40, section 264.119 (1983). The owner or operator shall identify the type, location, and quantity of the waste to the best of his or her knowledge and in accordance with any records he or she has kept. A change in the type, location, or quantity of hazardous waste disposed of within each cell or area of the facility that occurs after the survey plat and record of waste have been filed must be reported to the local zoning authority or the authority with jurisdiction over local land use and to the commissioner.

7045.0518 LIABILITY REQUIREMENTS.

Subpart 1. **Coverage for sudden accidental occurrences.** An owner or operator of a hazardous waste treatment, storage, or disposal facility, or a group of facilities, shall demonstrate financial responsibility for bodily injury and property damage to third parties caused by sudden accidental occurrences arising from operations of the facility or group of facilities. The owner or operator shall have and maintain liability coverage for sudden accidental occurrences in the amount of at least $1,000,000 per occurrence with an annual aggregate of at least $2,000,000, exclusive of legal defense costs. This liability coverage may be demonstrated in one of the following ways:

A. [Unchanged.]

B. An owner or operator may meet the requirements of this part by passing a financial test or using the corporate guarantee for liability coverage as specified in subpart subparts 6 and 7.

C. An owner or operator may demonstrate the required liability coverage through use of both the financial test and, insurance, the corporate guarantee, a combination of the financial test and insurance, or a combination of the corporate guarantee and insurance, as these mechanisms are specified in this part. The amounts of coverage demonstrated must total at

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least the minimum amounts required by subpart 1.

Subp. 2. Coverage for nonsudden accidental occurrences. An owner or operator of a surface impoundment, landfill, or land treatment facility which is used to manage hazardous waste, or a group of such facilities, shall demonstrate financial responsibility for bodily injury and property damage to third parties caused by nonsudden accidental occurrences arising from operations of the facility or group of facilities. The owner or operator shall have and maintain liability coverage for nonsudden accidental occurrences in the amount of at least $3,000,000 per occurrence with an annual aggregate of at least $6,000,000, exclusive of legal defense costs. This liability coverage may be demonstrated in one of the following ways:

A. [Unchanged.]

B. An owner or operator may meet the requirements of this part by passing a financial test or using the corporate guarantee for liability coverage as specified in ~~subpart~~ subparts 6 and 7.

C. An owner or operator may demonstrate the required liability coverage through use of ~~both~~ the financial test and, insurance, the corporate guarantee, a combination of the financial test and insurance, or a combination of the corporate guarantee and insurance, as these mechanisms are specified in this part. The amounts of coverage must total at least the minimum amounts required by subpart 2.

D. [Unchanged.]

Subp. 3. to 6. [Unchanged.]

Subp. 7. **Corporate guarantee for liability coverage.** The corporate guarantee for liability coverage is as follows:

A. Subject to item B, an owner or operator may meet the requirements of this part by obtaining a written corporate guarantee. The guarantor must be the parent corporation of the owner or operator. The guarantor must meet the requirements for owners or operators in subpart 6. The wording of the corporate guarantee must be identical to the wording specified in part 7045.0524, subpart 8a. The guarantee must be signed by two

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corporate officers of the parent corporation. A corporate resolution authorizing the parent corporation to provide the corporate guarantee for the subsidiary must be attached to the corporate guarantee. A certified copy of the corporate guarantee must accompany the items sent to the commissioner as provided in subpart 6, item E. The terms of the corporate guarantee must provide that:

(1) if the owner or operator fails to satisfy a judgment based on a determination of liability for bodily injury or property damage to third parties caused by sudden or nonsudden accidental occurrences, or both, as the case may be, arising from the operation of facilities covered by this corporate guarantee, or fails to pay an amount agreed to in settlement of claims arising from or alleged to arise from the injury or damage, the guarantor will do so up to the limits of coverage; and

(2) the corporate guarantee will remain in force unless the guarantor sends notice of cancellation by certified mail to the owner or operator and to the commissioner. This guarantee may not be terminated unless and until the commissioner approves alternate liability coverage complying with this part and/or part 7045.0620.

B. A corporate guarantee may be used to satisfy the requirements of this part only if:

(1) in the case of corporations incorporated in the United States, the attorney general or insurance commissioner of the state in which the guarantor is incorporated and of each state in which a facility covered by the guarantee is located has submitted a written statement to the commissioner and the United States Environmental Protection Agency that a corporate guarantee executed as described in this part and part 7045.0524, subpart 8a, is a legally valid and enforceable obligation in that state; and

(2) in the case of corporations incorporated outside the United States, the non-United States corporation has identified a registered agent for service of process in each

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state in which a facility covered by the guarantee is located and in the state in which it has its principal place of business, and the attorney general or insurance commissioner of each state in which a facility covered by the guarantee is located and the state in which the guarantor corporation has its principal place of business, has submitted a written statement to the commissioner and the United States Environmental Protection Agency that a corporate guarantee executed as described in this part and part 7045.0524, subpart 8a, is a legally valid and enforceable obligation in that state.

7045.0524 WORDING OF INSTRUMENTS.

Subpart 1. to 5. [Unchanged.]

Subp. 6. Letter from chief financial officer for corrective action, closure, and/or post-closure care. A letter from the chief financial officer as specified in part 7045.0504, subpart 7; 7045.0508, subpart 7; 7045.0514, subpart 7; 7045.0612, subpart 6; or 7045.0616, subpart 6 must be worded as specified in this subpart, except that instructions in brackets must be replaced with the relevant information and the brackets deleted.

LETTER FROM CHIEF FINANCIAL OFFICER FOR CORRECTIVE ACTION, CLOSURE, AND/OR POST-CLOSURE CARE

[Agency Commissioner]
Minnesota Pollution Control Agency

I am the chief financial officer of [name and address of firm]. This letter is in support of this firm's use of the financial test to demonstrate financial assurance, as specified in Minnesota Rules, parts 7045.0498 to 7045.0524 and 7045.0608 to 7045.0624.

[Fill out the following five paragraphs regarding facilities and associated cost estimates. If your firm has no facilities that belong in a particular paragraph, write "None" in the space indicated. For each facility, include its identification number, name, address, and current corrective action, closure, and/or post-closure cost estimates. Identify

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each cost estimate as to whether it is for corrective action, closure, or post-closure care.]

1. to 4. [Unchanged.]

5. This firm is the owner or operator of the following underground injection control (UIC) facilities for which financial assurance for plugging and abandonment is required under Code of Federal Regulations, title 40, part 144. The current closure cost estimates as required by Code of Federal Regulations, title 40, section 144.62 are shown for each facility.

This firm [insert "is required" or "is not required"] to file a Form 10K with the Securities and Exchange Commission (SEC) for the latest fiscal year.

The fiscal year of this firm ends on [month, day]. The figures for the following items marked with an asterisk are derived from this firm's independently audited, year-end financial statements for the latest completed fiscal year, ended [date].

[Fill in Alternative I if the criteria of Minnesota Rules, part 7045.0504, subpart 7, item B; 7045.0508, subpart 7, item B; 7045.0514, subpart 7, item B; 7045.0612, subpart 6, item B; 7045.0616, subpart 6, item B are used. Fill in Alternative II if the criteria of Minnesota Rules, part 7045.0504, subpart 7, item C; 7045.0508, subpart 7, item C; 7045.0514, subpart 7, item C; or 7045.0612, subpart 6, item C; or 7045.0616, subpart 6, item C are used.]

ALTERNATIVE I

1. Sum of current corrective action, closure, and post-closure cost estimate [total of all cost estimates shown in the five paragraphs above]	$_____
*2. Total liabilities [if any portion of the corrective action, closure, or post-closure cost estimates is included in total liabilities, you may deduct the amount of that portion from this line and add that amount to lines 3 and 4].	$_____
*3. Tangible net worth	$_____
*4. Net worth	$_____
*5. Current assets	$_____
*6. Current liabilities	$_____
7. Net working capital [line 5 minus line 6]	$_____
*8. The sum of net income plus depreciation, depletion, and amortization	$_____
*9. Total assets in United States (required only if less than 90 percent of firm's assets are	

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located in United States) $_____

	YES	NO
10. Is line 3 at least $10,000,000?	___	___
11. Is line 3 at least 6 times line 1?	___	___
12. Is line 7 at least 6 times line 1?	___	___
*13. Are at least 90 percent of firm's assets located in the United States? If not, complete line 14	___	___
14. Is line 9 at least 6 times line 1?	___	___
15. Is line 2 divided by line 4 less than 2.0?	___	___
16. Is line 8 divided by line 2 greater than 0.1?	___	___
17. Is line 5 divided by line 6 greater than 1.5?	___	___

ALTERNATIVE II

1. Sum of current corrective action, closure, and post-closure cost estimates [total of all cost estimates shown in the four five paragraphs above] $_____
2. Current bond rating of most recent issuance of this firm and name of rating service _____
3. Date of issuance of bond _____
4. Date of maturity of bond _____
*5. Tangible net worth [if any portion of the corrective action, closure, and post-closure cost estimates is included in "total liabilities" on your firm's financial statements, you may add the amount of that portion to this line] $_____
*6. Total assets in United States (required only if less than 90 percent of firm's assets are located in United States) $_____

	YES	NO
7. Is line 5 at least $10,000,000?	___	___
8. Is line 5 at least 6 times line 1?	___	___
*9. Are at least 90 percent of firm's assets located in United States? If not, complete line 10	___	___
10. Is line 6 at least 6 times line 1?	___	___

I hereby certify that the wording of this letter is identical to the wording specified in Minnesota Rules, part 7045.0524, subpart 6, as such rules were constituted on the date shown immediately below.

[SIGNATURE]

[NAME]

[TITLE]

[DATE]

Subp. 7. Letter from chief financial officer for liability coverage. A letter from the chief financial officer as specified in part 7045.0518, subpart 6 or 7045.0620, subpart 5 must be worded as specified in this subpart, except that instructions in brackets must be replaced with the relevant information and the brackets deleted.

LETTER FROM CHIEF FINANCIAL OFFICER

FOR LIABILITY COVERAGE OR LIABILITY COVERAGE,

CORRECTIVE ACTION, CLOSURE, AND/OR POST-CLOSURE CARE

[Agency Commissioner]

Minnesota Pollution Control Agency

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I am the chief financial officer of [~~owner's-or-operator's~~ firm's name and address]. This letter is in support of the use of the financial test to demonstrate financial responsibility for liability coverage [insert "and corrective action, closure, and/or post-closure care" if applicable] as specified in Minnesota Rules, parts 7045.0498 to 7045.0524 and 7045.0608 to 7045.0624.

[Fill out the following paragraph regarding facilities and liability coverage. If there are no facilities that belong in a particular paragraph, write "None" in the space indicated. For each facility, include its identification number, name, and address.]

The ~~owner-or-operator~~ firm identified above is the owner or operator of the following facilities for which liability coverage for [insert "sudden" or "nonsudden" or "both sudden and nonsudden"] accidental occurrences is being demonstrated through the financial test specified in Minnesota Rules, parts 7045.0498 to 7045.0524 and 7045.0608 to 7045.0624:

_____.

The firm identified above guarantees, through the corporate guarantee specified in Minnesota Rules, parts 7045.0498 to 7045.0524 and 7045.0608 to 7045.0624, liability coverage for [insert "sudden" or "nonsudden" or "both sudden and nonsudden"] accidental occurrences at the following facilities owned or operated by the following subsidiaries of the firm:

_____.

[If you are using the financial test to demonstrate coverage of both liability and corrective action, closure, and post-closure care, fill in the following five paragraphs regarding facilities and associated corrective action, closure, and post-closure cost estimates. If there are no facilities that belong in a particular paragraph, write "None" in the space indicated. For each facility, include its identification number, name, address, and current corrective action, closure, and/or post-closure cost estimates. Identify each cost estimate as to whether it is for corrective action, closure, or

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post-closure care.]

1. The ~~owner-or-operator~~ firm identified above owns or operates the following facilities for which financial assurance for corrective action, closure, or post-closure care is demonstrated through the financial test specified in Minnesota Rules, parts 7045.0498 to 7045.0524 and 7045.0608 to 7045.0624. The current corrective action, closure, and/or post-closure cost estimates covered by the test are shown for each facility:

_____.

2. The ~~owner-or-operator~~ firm identified above guarantees, through the corporate guarantee specified in Minnesota Rules, part 7045.0498 to 7045.0524 and 7045.0608 to 7045.0624, the corrective action, closure, and post-closure care of the following facilities owned or operated by its subsidiaries. The current cost estimates for the corrective action, closure, or post-closure care so guaranteed are shown for each facility:

_____.

3. In states other than Minnesota, this ~~owner-or-operator~~ firm is demonstrating financial assurance for the corrective action, closure, or post-closure care of the following facilities either to the United States Environmental Protection Agency through the use of the financial test specified in Code of Federal Regulations, title 40, parts 264 or 265, subpart H, or to an authorized state through the use of a test equivalent or substantially equivalent to the specified financial test. The current corrective action, closure, and/or post-closure cost estimates covered by such a test are shown for each facility:

_____.

4. The ~~owner-or-operator~~ firm identified above owns or operates the following hazardous waste management facilities for which financial assurance for corrective action, if required, closure, or, if a disposal facility, post-closure care, is not demonstrated either to the United States Environmental Protection Agency, or a state through the financial test or any other financial assurance mechanism specified in Code of Federal Regulations, title 40, parts 264 or 265, subpart H, or

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equivalent or substantially equivalent state mechanisms. The current corrective action, closure, and/or post-closure cost estimates not covered by such financial assurance are shown for each facility: _____.

5. The ~~owner-or-operator~~ firm identified above owns or operates the following underground injection control (UIC) facilities for which financial assurance for plugging and abandonment is required under Code of Federal Regulations, title 40, part 144. The current closure cost estimates as required by Code of Federal Regulations, title 40, section 144.62 are shown for each facility:

_____.

This ~~owner-or-operator~~ firm [insert "is required" or "is not required"] to file a Form 10K with the Securities and Exchange Commission (SEC) for the latest fiscal year.

The fiscal year of this ~~owner-or-operator~~ firm ends on [month, day]. The figures for the following items marked with an asterisk are derived from this ~~owner's-or-operator's~~ firm's independently audited, year-end financial statements for the latest completed fiscal year, ended [date].

[Fill in Part A if you are using the financial test to demonstrate coverage only for the liability requirements.]

Part A. Liability Coverage for Accidental Occurrences.

[Fill in Alternative I if the criteria of Minnesota Rules, part 7045.0518, subpart 6, item B or 7045.0620, subpart 5, item B are used. Fill in Alternative II if the criteria of Minnesota Rules, part 7045.0518, subpart 6, item C or 7045.0620, subpart 5, item C are used.]

ALTERNATIVE I

1.	Amount of annual aggregate liability coverage to be demonstrated	$_____
*2.	Current assets	$_____
*3.	Current liabilities	$_____
4.	Net working capital (line 2 minus line 3)	$_____
*5.	Tangible net worth	$_____
*6.	If less than 90 percent of assets are located in the United States, give total United States assets	$_____
		YES NO
7.	Is line 5 at least $10,000,000?	___ ___
8.	Is line 4 at least 6 times line 1?	___ ___
9.	Is line 5 at least 6 times line 1?	___ ___

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*10. Are at least 90 percent of assets located in the United States? If not, complete line 11 ___ ___
11. Is line 6 at least 6 times line 1? ___ ___

ALTERNATIVE II

1. Amount of annual aggregate liability coverage to be demonstrated $_____
2. Current bond rating of most recent issuance and name of rating service _____
3. Date of issuance of bond _____
4. Date of maturity of bond _____
*5. Tangible net worth $_____
*6. Total assets in United States (required only if less than 90 percent of assets located in the United States) $_____

	YES	NO
7. Is line 5 at least $10,000,000?	___	___
8. Is line 5 at least 6 times line 1?	___	___
*9. Are at least 90 percent of assets located in the United States? If not, complete line 10	___	___
10. Is line 6 at least 6 times line 1?	___	___

Part B. Corrective Action, Closure, or Post-Closure Care and Liability Coverage.

[Fill in Alternative I if the criteria of Minnesota Rules, parts 7045.0504, subpart 7, item B; 7045.0508, subpart 7, item B; 7045.0514, subpart 7, item B; and 7045.0518, subpart 6, item B are used or if the criteria of Minnesota Rules, parts 7045.0612, subpart 6, item B or 7045.0616, subpart 6, item B; and 7045.0620, subpart 5, item B are used. Fill in Alternative II if the criteria of Minnesota Rules, parts 7045.0504, subpart 7, item C; 7045.0508, subpart 7, item C; 7045.0514, subpart 7, item C; and 7045.0518, subpart 6, item C are used or if the criteria of Minnesota Rules, parts 7045.0612, subpart 6, item C; 7045.0616, subpart 6, item C; and 7045.0620, subpart 5, item C are used.]

ALTERNATIVE I

1. Sum of current corrective action, closure, and post-closure cost estimates (total of all cost estimates listed above) $_____
2. Amount of annual aggregate liability coverage to be demonstrated $_____
3. Sum of lines 1 and 2 $_____
*4. Total liabilities (if any portion of your current corrective action, closure, or post-closure cost estimates is included in your total liabilities, you may deduct that portion from this line and add that amount to lines 5 and 6) $_____
*5. Tangible net worth $_____
*6. Net worth $_____
*7. Current assets $_____
*8. Current liabilities $_____
9. Net working capital (line 7 minus line 8) $_____
*10. The sum of net income plus depreciation, depletion, and amortization $_____
*11. Total assets in United States (required only if less than 90 percent of assets are located in

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the United States) $_____

	YES	NO
12. Is line 5 at least $10,000,000?	___	___
13. Is line 5 at least 6 times line 3?	___	___
14. Is line 9 at least 6 times line 3?	___	___
*15. Are at least 90 percent of assets located in the United States? If not, complete line 16	___	___
16. Is line 11 at least 6 times line 3?	___	___
17. Is line 4 divided by line 6 less than 2.0?	___	___
18. Is line 10 divided by line 4 greater than 0.1?	___	___
19. Is line 7 divided by line 8 greater than 1.5?	___	___

ALTERNATIVE II

1. Sum of current corrective action, closure, and post-closure cost estimates (total of all cost estimates listed above) $_____
2. Amount of annual aggregate liability coverage to be demonstrated $_____
3. Sum of lines 1 and 2 $_____
4. Current bond rating of most recent issuance and name of rating service _____
5. Date of issuance of bond _____
6. Date of maturity of bond _____
*7. Tangible net worth (if any portion of the current corrective action, closure, or post-closure cost estimates is included in "total liabilities" on your financial statements you may add that portion to this line) $_____
*8. Total assets in the United States (required only if less than 90 percent of assets are located in the United States) $_____

	YES	NO
9. Is line 7 at least $10,000,000?	___	___
10. Is line 7 at least 6 times line 3?	___	___
*11. Are at least 90 percent of assets located in the United States? If not, complete line 12	___	___
12. Is line 8 at least 6 times line 3?	___	___

I hereby certify that the wording of this letter is identical to the wording specified in Minnesota Rules, part 7045.0524, subpart 7, as the rules were constituted on the date shown immediately below.

[SIGNATURE]

[NAME]

[TITLE]

[DATE]

Subp. 8. [Unchanged.]

Subp. 8a. **Corporate guarantee for liability coverage.** A corporate guarantee as specified in part 7045.0518, subpart 7, or 7045.0620, subpart 6, must be worded as follows, except that instructions in brackets are to be replaced with the relevant information and the brackets deleted:

CORPORATE GUARANTEE FOR LIABILITY COVERAGE

Guarantee made this [date] by [name of guaranteeing

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entity], a business corporation organized under the laws of [if incorporated within the United States, insert "the State of ....." and insert name of state; if incorporated outside the United States, insert the name of the country in which incorporated, the principal place of business within the United States, and the name and address of the registered agent in the state of the principal place of business], referred to in this guarantee as the guarantor. This guarantee is made on behalf of our subsidiary [owner or operator] of [business address], to any and all third parties who have sustained or may sustain bodily injury or property damage caused by [sudden and/or nonsudden] accidental occurrences arising from operation of the facility(ies) covered by this guarantee.

Recitals

1. Guarantor meets or exceeds the financial test criteria and agrees to comply with the reporting requirements for guarantors as specified in Minnesota Rules, parts 7045.0518, subpart 7, and 7045.0620, subpart 6.

2. [Owner or operator] owns or operates the following hazardous waste management facility(ies) covered by this guarantee: [List for each facility: EPA Identification Number, name, and address; and if guarantor is incorporated outside the United States, list the name and address of the guarantor's registered agent in each state.] This corporate guarantee satisfies RCRA third-party liability requirements for [insert "sudden" or "nonsudden" or "both sudden and nonsudden"] accidental occurrences in above-named owner or operator facilities for coverage in the amount of [insert dollar amount] for each occurrence and [insert dollar amount] annual aggregate.

3. For value received from [owner or operator], guarantor guarantees to any and all third parties who have sustained or may sustain bodily injury or property damage caused by [sudden and/or nonsudden] accidental occurrences arising from operations of the facility(ies) covered by this guarantee that in the event that [owner or operator] fails to satisfy a judgment or award based on a determination of liability for bodily injury or

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property damage to third parties caused by [sudden and/or nonsudden] accidental occurrences, arising from the operation of the above-named facilities, or fails to pay an amount agreed to in settlement of a claim arising from or alleged to arise from such injury or damage, the guarantor will satisfy such judgment(s), award(s), or settlement agreement(s), up to the limits of coverage identified above.

4. Guarantor agrees that if, at the end of any fiscal year before termination of this guarantee, the guarantor fails to meet the financial test criteria, guarantor shall send within 90 days, by certified mail, notice to the commissioner and to [owner or operator] that (s)he intends to provide alternate liability coverage as specified in Minnesota Rules, parts 7045.0518 and 7045.0620, as applicable, in the name of [owner or operator]. Within 120 days after the end of that fiscal year, the guarantor shall establish the liability coverage unless [owner or operator] has done so.

5. The guarantor agrees to notify the commissioner by certified mail of a voluntary or involuntary proceeding under Title 11 (bankruptcy), United States Code, naming guarantor as debtor, within ten days after commencement of the proceeding.

6. Guarantor agrees that within 30 days after being notified by the commissioner of a determination that guarantor no longer meets the financial test criteria or that (s)he is disallowed from continuing as a guarantor, (s)he shall establish alternate liability coverage as specified in Minnesota Rules, part 7045.0518 or 7045.0620 in the name of [owner or operator], unless [owner or operator] has done so.

7. Guarantor reserves the right to modify this agreement to take into account amendment or modification of the liability requirements established by Minnesota Rules, parts 7045.0518 and 7045.0620, but the modification becomes effective only if the commissioner does not disapprove the modification within 30 days of receipt of notification of the modification.

8. Guarantor agrees to remain bound under this guarantee for so long as [owner or operator] must comply with the

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applicable requirements of Minnesota Rules, parts 7045.0518 and 7045.0620 for the above-listed facility(ies), except as provided in paragraph 9 of this agreement.

9. Guarantor may terminate this guarantee by sending notice by certified mail to the commissioner and to [owner or operator] but this guarantee may not be terminated unless and until [owner or operator] obtains, and the commissioner approves alternate liability coverage complying with Minnesota Rules, parts 7045.0518 and/or 7045.0620.

10. Guarantor hereby expressly waives notice of acceptance of this guarantee by any party.

11. Guarantor agrees that this guarantee is in addition to and does not affect any other responsibility or liability of the guarantor with respect to the covered facilities.

12. Exclusions

This corporate guarantee does not apply to:

A. Bodily injury or property damage for which the owner or operator is obliged to pay damages by reason of the assumption of liability in a contract or agreement. This exclusion does not apply to liability for damages that the owner or operator would be obligated to pay in the absence of the contract or agreement.

B. Any obligation of the owner or operator under a workers' compensation, disability benefits, or unemployment compensation law or any similar law.

C. Bodily injury to:

(1) an employee of the owner or operator arising from, and in the course of, employment by the owner or operator; or

(2) the spouse, child, parent, brother, or sister of that employee as a consequence of, or arising from, and in the course of, employment by the owner or operator.

This exclusion applies whether the owner or operator is liable as an employer or in any other capacity. This exclusion also applies to any obligation to share damages with or repay another person who must pay damages because of the injury to persons identified in item C.

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D. Bodily injury or property damage arising out of the ownership, maintenance, use, or entrustment to others of any aircraft, motor vehicle, or watercraft.

E. Property damage to:

(1) any property owned, rented, or occupied by the owner or operator;

(2) premises that are sold, given away, or abandoned by the owner or operator if the property damage arises out of any part of those premises;

(3) property loaned to the owner or operator;

(4) personal property in the care, custody, or control of the owner or operator; and

(5) that particular part of real property on which the owner or operator or any contractors or subcontractors working directly or indirectly on behalf of the owner or operator are performing operations, if the property damage arises out of these operations.

I hereby certify that the wording of the guarantee is identical to the wording specified in Minnesota Rules, part 7045.0524, subpart 8a.

Effective date: .....

[Name of guarantor]

[Authorized signatures for guarantor]

[Names of persons signing]

[Titles of persons signing (Two corporate officers must sign for parent corporation.)]

Corporate resolution attached [(Attach resolution adopted by parent corporation authorizing parent corporation to provide the corporate guarantee for subsidiary)]

Signature of witness or notary:

_____

Subp. 9. and 10. [Unchanged.]

7045.0602 POST-CLOSURE CARE AND USE OF PROPERTY.

Subpart 1. and 2. [Unchanged.]

Subp. 3. **Post-closure use of property.** Post-closure use

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of property on or in which hazardous wastes remain after closure must never be allowed by the owner or operator to disturb the integrity of the final cover, liners, or any other components of any containment system or the function of the facility's monitoring system, unless the owner or operator can demonstrate to the commissioner either in the post-closure plan or by ~~protection~~ petition that the disturbance:

A. and B. [Unchanged.]

Subp. 4. [Unchanged.]

7045.0610 COST ESTIMATE FOR FACILITY CLOSURE.

Subpart 1. Cost estimate requirements. The owner or operator shall prepare a detailed written estimate, in current dollars, of the cost of closing the facility in accordance with the closure plan in part 7045.0594 and applicable closure requirements in parts 7045.0626, subpart 8; 7045.0628, subpart 5; 7045.0630, subpart 6; 7045.0632, subpart 7; 7045.0634, subpart 6; 7045.0638, subpart 4; 7045.0640, subpart 5; and 7045.0642, subpart 5. The closure cost estimate must equal the cost of closure at the point in the facility's operating life when the extent and manner of its operation would make closure the most expensive, as indicated by its closure plan. The closure cost shall be estimated as follows:

A. [Unchanged.]

B. The closure cost estimate may not incorporate any salvage value that may be realized with the ~~sale~~ sale of hazardous wastes, facility structures or equipment, land, or other assets associated with the facility at the time of partial or final closure.

C. [Unchanged.]

Subp. 2. to 4. [Unchanged.]

7045.0620 LIABILITY REQUIREMENTS.

Subpart 1. Coverage for sudden accidental occurrences. An owner or operator of a hazardous waste treatment, storage, or disposal facility, or a group of these facilities, shall demonstrate financial responsibility for bodily injury and

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property damage to third parties caused by sudden accidental occurrences arising from operations of the facility or group of facilities. The owner or operator shall have and maintain liability coverage for sudden accidental occurrences in the amount of at least $1,000,000 per occurrence with an annual aggregate of at least $2,000,000, exclusive of legal defense costs. This liability coverage may be demonstrated in one of three ways, as specified in items A, B, and C:

A. [Unchanged.]

B. An owner or operator may meet the requirements of this ~~rule~~ part by passing a financial test or using the corporate guarantee for liability coverage as specified in ~~subpart~~ subparts 5 and 6.

C. An owner or operator may demonstrate the required liability coverage through use of ~~both~~ the financial test and, insurance, the corporate guarantee, a combination of the financial test and insurance, or a combination of the corporate guarantee and insurance as these mechanisms are specified in this part. The amounts of coverage demonstrated must total at least the minimum amounts required by subpart 1.

Subp. 2. **Coverage for nonsudden accidental occurrences.** An owner or operator of a surface impoundment, landfill, or land treatment facility which is used to manage hazardous waste, or a group of these facilities, shall demonstrate financial responsibility for bodily damage and property damage to third parties caused by nonsudden accidental occurrences arising from operations of the facility or group of facilities. The owner or operator shall have and maintain liability coverage for nonsudden accidental occurrences in the amount of at least $3,000,000 per occurrence with an annual aggregate of at least $6,000,000, exclusive of legal defense costs. This liability coverage may be demonstrated in one of three ways as specified in items A, B, and C:

A. [Unchanged.]

B. An owner or operator may meet the requirements of this ~~rule~~ part by passing a financial test or using the

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corporate guarantee for liability coverage as specified in subpart subparts 5 and 6.

C. An owner or operator may demonstrate the required liability coverage through use of both the financial test and, insurance, the corporate guarantee, a combination of the financial test and insurance, or a combination of the corporate guarantee and insurance as these mechanisms are specified in this part. The amounts of coverage must total at least the minimum amounts required by subpart 1.

D. and E. [Unchanged.]

Subp. 3. to 5. [Unchanged.]

Subp. 6. Corporate guarantee for liability coverage. The corporate guarantee for liability coverage is as follows:

A. Subject to item B, an owner or operator may meet the requirements of this part by obtaining a written corporate guarantee. The guarantor must be the parent corporation of the owner or operator. The guarantee must meet the requirements for owners or operators in subpart 5. The wording of the corporate guarantee must be identical to the wording specified in part 7045.0524, subpart 8a. The guarantee must be signed by two corporate officers of the parent corporation. A corporate resolution authorizing the parent corporation to provide the corporate guarantee for the subsidiary must be attached to the guarantee. A certified copy of the corporate guarantee must accompany the items sent to the commissioner as specified in subpart 5, item E. The terms of the corporate guarantee must provide that:

(1) if the owner or operator fails to satisfy a judgment based on a determination of liability for bodily injury or property damage to third parties caused by sudden or nonsudden accidental occurrences, or both, as the case may be, arising from the operation of facilities covered by this corporate guarantee, or fails to pay an amount agreed to in settlement of claims arising from or alleged to arise from such injury or damage, the guarantor will do so up to the limits of coverage; and

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(2) the corporate guarantee will remain in force unless the guarantor sends notice of cancellation by certified mail to the owner or operator and to the commissioner. This guarantee may not be terminated unless and until the commissioner approves alternate liability coverage complying with this part and/or part 7045.0518.

B. A corporate guarantee may be used to satisfy the requirements of this part only if:

(1) in the case of corporations incorporated in the United States, the attorney general or insurance commissioner of the state in which the guarantor is incorporated and of each state in which a facility covered by the guarantee is located has submitted a written statement to the commissioner and the United States Environmental Protection Agency that a corporate guarantee executed as described in this part and part 7045.0524, subpart 8a, is a legally valid and enforceable obligation in that state; and

(2) in the case of corporations incorporated outside the United States, the non-United States corporation has identified a registered agent for service of process in each state in which a facility covered by the guarantee is located and in the state in which it has its principal place of business, and the attorney general or insurance commissioner of each state in which a facility covered by the guarantee is located and the state in which the guarantor corporation has its principal place of business, has submitted a written statement to the commissioner and the United States Environmental Protection Agency that a corporate guarantee executed as described in this part and part 7045.0524, subpart 8a, is a legally valid and enforceable obligation in that state.

7045.0630 SURFACE IMPOUNDMENTS.

Subpart 1. to 5. [Unchanged.]

Subp. 6. Closure and post-closure. The requirements of closure and post-closure are as follows:

A. At closure, the owner or operator may elect to

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remove from the impoundment or decontaminate any standing liquids, waste and waste residues, ~~the liner~~ contaminated containment system components including liners, if any, and underlying and surrounding contaminated soil, and structures and equipment contaminated with waste and leachate.

B. If the owner or operator removes or decontaminates all the impoundment materials described in item A ~~or can demonstrate that none of the materials listed in item A remaining at any stage of removal are hazardous waste~~, the impoundment is not further subject to the requirements of parts 7045.0552 to 7045.0642. At closure and throughout the operating period, unless the owner or operator can demonstrate that any waste removed from the surface impoundment is not a hazardous waste, he or she becomes a generator of hazardous waste and must manage it in accordance with all applicable requirements of parts 7045.0205 to 7045.0397 and 7045.0552 to 7045.0642.

C. If the owner or operator does not remove or decontaminate all the impoundment materials described in item A, ~~or does not make the demonstration described in item B~~, he or she shall close the impoundment and provide post-closure care as for a landfill under parts 7045.0594 to 7045.0606 and 7045.0638, subpart 4~~. If necessary to support the final cover specified in the approved closure plan, the owner or operator shall treat remaining liquids, residues, and soils by removal of liquids, drying, or other means~~, including the following:

(1) eliminate free liquids by removing liquid wastes or solidifying the remaining wastes and waste residues;

(2) stabilize remaining wastes to a bearing capacity sufficient to support the final cover; and

(3) cover the surface impoundment with a final cover designed and constructed to provide long-term minimization of the migration of liquids through the closed impoundment, function with minimum maintenance, promote drainage and minimize erosion or abrasion of the cover, accommodate settling and subsidence so that the cover's integrity is maintained, and have a permeability less than or equal to the permeability of any

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bottom liner system or natural subsoils present.

D. In addition to the requirements of parts 7045.0594 to 7045.0606 and 7045.0638, subpart 4, during the post-closure care period, the owner or operator of a surface impoundment in which wastes, waste residues, or contaminated materials remain after closure in accordance with item C shall:

(1) maintain the integrity and effectiveness of the final cover, including making repairs to the cover as necessary to correct the effects of settling, subsidence, erosion, or other events;

(2) maintain and monitor the groundwater monitoring system and comply with all other applicable requirements of part 7045.0590; and

(3) prevent run-on and run-off from eroding or otherwise damaging the final cover.

The closure requirements under part 7045.0638, subpart 4, will vary with the amount and nature of the residues remaining, if any, and the degree of contamination of the underlying and surrounding soil. The commissioner may vary post-closure requirements, according to part 7045.0602, subpart 1.

Subp. 7. and 8. [Unchanged.]

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Department of Human Services

Community Social Services Division

Notice of Solicitation of Outside Information or Opinions Regarding Proposed Rules Governing Adoption

Notice is hereby given that the State Department of Human Services is seeking information or opinions from sources outside the agency in preparing to propose amendments to the permanent rule governing adoption. The adoption of the rule is authorized by *Minnesota Statutes*, section, 245A.03, subd. 1, which permits the agency to license entities that receive children for care, supervision, or placement in foster care or adoption; sections 257.01 to 257.065, which require the agency to offer services relating to the care and custody of children, including interstate and international adoptive placement; section 259.21, on adoption; section 259.24 to 259.255 on consents to adoption and minority heritage; section 259.27 on reports to court; section 259.45, on the state adoption exchange which permits creation of a photographic information service; section 259.46 governing adoption records; sections 259.47 and 259.49 which provide for postadoption services; and section 260.221 on termination of parental rights.

The State Department of Human Services requests information and opinions concerning the subject matter of the rule. Interested persons or groups may submit data or views on the subject matter of concern in writing or orally. Written statements should be addressed to:

Ruth Weidell
Adoption/Guardianship Unit
Department of Human Services
444 Lafayette Road
St. Paul, MN 55155-3831

Oral statements will be received during regular business hours over the telephone at (612) 296-3250, and in person at the above address.

All statements of information and opinions shall be accepted until further notice is published in the *State Register* or the Notice of Hearing or Notice of Intent to Adopt Rules Without a Hearing is published in the *State Register.* Any written material received by the State Department of Human Services shall become part of the rulemaking record to be submitted to the attorney general or administrative law judge in the event that the rule is adopted.

Minnesota Pollution Control Agency

Division of Hazardous Waste

Notice of Intent to Solicit Outside Information Regarding Proposed Amendments to *Minnesota Rules* Chapters 7001 and 7045 Governing the Management of Hazardous Waste

Notice is hereby given that the Minnesota Pollution Control Agency (MPCA) is seeking information or opinions from outside sources in preparing to propose the amendment of rules governing the management of hazardous waste. Specifically, the MPCA is considering proposing amendments regarding the following:

1. Ground water monitoring with regard to analyzing suspected contamination from regulated units at land-based hazardous waste treatment, storage, and disposal facilities. The amendments would replace current ground water monitoring requirements to analyze for the general list of all constituents set out in *Minnesota Rules* pt. 7045.0141 with new requirements to analyze for a specific list of chemicals.

2. Financial responsibility requirements concerning liability coverage for owners and operators of hazardous waste treatment, storage, and disposal facilities. The amendments may allow the use of one additional financial responsibility mechanism: a corporate guarantee.

3. Interim status regulations for closing and providing post-closure care for hazardous waste surface impoundments. The amendments would provide conformance between certain interim status requirements for surface impoundments and those requirements contained in the permitting rules.

4. Information requirements for Part B permit applications. The amendments would allow the owners/operators of facilities that

treat, store, or dispose of hazardous waste to conduct certain activities related to ground water corrective action after issuance of the permit, at the MPCA Commissioner's discretion.

5. Corrections and modifications to the lists of hazardous wastes. The amendments would correct the chemical nomenclature for entries already existing in the lists of hazardous wastes and add Chemical Abstract Service registry numbers to all listings.

The MPCA is considering these amendments in response to amendments to the U.S. Environmental Protection Agency hazardous waste program promulgated on July 9, 1987, July 11, 1986 and November 18, 1987, March 19, 1987, June 22, 1987, August 6, 1986, respectively. The amendment of the MPCA rules is authorized by *Minnesota Statutes* § 116.07, subd. 4 (1986).

The MPCA requests information and opinions concerning the subject matter of the rules. Interested persons or groups may submit data or views in writing or orally. Written or oral statements or comments should be directed to:

Patrick F. Carey
Minnesota Pollution Control Agency
520 Lafayette Road North
St. Paul, Minnesota 55155
Telephone: 612/296-7767

Oral statements will be received during regular business hours, 8:00 a.m. to 4:30 p.m., Monday through Friday.

All statements of information and opinion will be accepted until March 30, 1988. Any written materials received by the MPCA shall become part of the rulemaking record in the event that the rule is amended.

Gerald L. Willet
Commissioner

Office of the Secretary of State

Notice of Vacancies in Multi-Member State Agencies

Notice is hereby given to the public that vacancies have occurred in multi-member state agencies, pursuant to *Minnesota Statutes*, 15.0597, subd. 4. Application forms may be obtained at the Office of the Secretary of State, 180 State Office Building, St. Paul, MN 55155-1299; (612) 296-2805. Specific information about these vacancies may be obtained from the agencies listed below. The application deadline is March 22, 1988.

WORKERS COMPENSATION COURT OF APPEALS

Judge to be appointed to replace Judge Altman; term expires Jan. 7, 1991.

MN COUNCIL FOR THE HEARING IMPAIRED

1 member currently member of West Central Regional Service Center for Hearing Impaired People Advisory Committee.

JUVENILE JUSTICE ADVISORY COMMITTEE

1 member with training, experience, or special knowledge on prevention and treatment of juvenile delinquency or administration of juvenile justice.

INFORMATION POLICY ADVISORY TASK FORCE

15 members; see agency description for details. This is a new agency.

HOME CARE ADVISORY TASK FORCE

15 members; see agency description for details. This is a new agency.

EMERGENCY RESPONSE COMMISSION

4 members: 1 member from community groups, 1 member elected official, 1 member from labor, 1 member waste treatment operator.

WORKERS COMPENSATION COURT OF APPEALS

M.E.A. Bldg., 55 Sherburne Ave.
St. Paul 55103. 612-296-6526. *Minnesota Statutes* 175A.01.

APPOINTING AUTHORITY: Governor. Senate Confirmation.
COMPENSATION: $60,660 per year.

CERTIFICATE OF AGENCY'S AUTHORIZING RESOLUTION

I, Gerald L. Willet, do hereby certify that I am the Commissioner of the Minnesota Pollution Control Agency, an agency duly authorized under the laws of the State of Minnesota, and that the following is a true, complete, and correct copy of a resolution adopted at a meeting of the Minnesota Pollution Control Agency duly and properly called and held on the 26th day of April 1988, that a quorum was present at said meeting, that a majority of those present voted for the resolution and that said resolution will be set forth in the minutes of said meeting and has not been rescinded or modified:

BE IT RESOLVED, that the Commissioner of the Minnesota Pollution Control Agency is hereby granted the authority to sign and to give notice of the Minnesota Pollution Control Agency's intent to adopt, without a public hearing, the attached amendments to the Minnesota Pollution Control Agency's hazardous waste rules governing the management, storage, treatment, and disposal of hazardous waste, Minn. Rules pts. 7001.0640, 7045.0135, 7045.0141, 7045.0143, 7045.0484, 7045.0518, 7045.0524, 7045.0602, 7045.0610, 7045.0620, and 7045.0630, to all persons who have registered their names with the Minnesota Pollution Control Agency for that purpose and publish the notice and the rule amendments in the State Register, and to perform any acts incidental thereto, including making any form changes in the rule amendments that the Revisor of Statutes requires the Minnesota Pollution Control Agency to make in order to obtain the Revisor's certification as required by Minn. Stat. § 14.07, subd. 2 (1986).

BE IT FURTHER RESOLVED, that in the event a public hearing becomes necessary, the Commissioner is hereby granted the authority and directed to call a hearing for the purpose of promulgating said rule amendments as well as to perform any and all acts incidental thereto, including but not limited to signing an Order for and Notice of Hearing, as well as acting as the Minnesota Pollution Control Agency's representative at all hearings.

IN WITNESS WHEREOF, I have hereunto subscribed my name this 26 day of April, 1988.

Gerald L. Willet

Gerald L. Willet
Commissioner

STATE OF MINNESOTA
MINNESOTA POLLUTION CONTROL AGENCY

In the Matter of the Proposed Rule Amendments Governing the Management of Hazardous Waste, Minn. Rules Pts. 7001.0640, 7045.0135, 7045.0141, 7045.0143, 7045.0484, 7045.0494, 7045.0518, 7045.0524, 7045.0602, 7045.0610, 7045.0620, and 7045.0630

NOTICE OF INTENT TO ADOPT RULE AMENDMENTS WITHOUT A PUBLIC HEARING

Notice is hereby given that the Minnesota Pollution Control Agency (MPCA) intends to adopt the above-entitled rule amendments without a public hearing following the procedures set forth in the Administrative Procedure Act for adopting rules without a public hearing in Minn. Stat. §§ 14.22 to 14.28 (1986). The MPCA's authority to adopt the rule amendments is set forth in Minn. Stat. § 116.07, subd. 4 (1986).

All persons have until 4:30 p.m. on June 16, 1988, to submit comments in support of or in opposition to the proposed rule amendments or any part or subpart of the rules. Comment is encouraged. Each comment should identify the portion of the proposed rule amendments addressed, the reason for the comment, and any change proposed.

Any person may make a written request for a public hearing on the rule amendments within the comment period. If 25 or more persons submit a written request for a public hearing within the comment period, a public hearing will be held unless a sufficient number withdraw their requests in writing. Any person requesting a public hearing should state his or her name and address, and is encouraged to identify the portion of the proposed rule amendments addressed, the reason for the request, and any change proposed. If a public hearing is required, the MPCA will proceed pursuant to Minn. Stat. §§ 14.131 to 14.20 (1986).

Comments or written requests for a public hearing must be submitted to:

Patrick Carey
Minnesota Pollution Control Agency
520 Lafayette Road North
St. Paul, Minnesota 55155
(612) 296-7767

The proposed rule amendments may be modified if the modifications are supported by data and views submitted to the MPCA and do not result in a substantial change in the proposed rule amendments as noticed.

The proposed rule amendments, if adopted, will pertain to the following:

1. Ground water monitoring with regard to analyzing for contamination at land-based hazardous waste facilities. The proposed amendments replace current ground water monitoring requirements to analyze for the general list of all constituents set out in Minn. Rules pt. 7045.0141 with new requirements to analyze for a specific list of chemicals.

2. Financial responsibility requirements concerning liability coverage for owners and operators of hazardous waste facilities. The proposed amendments allow the use of one additional financial mechanism to demonstrate liability coverage: A corporate guarantee.

3. Interim status regulations for closing and providing post-closure care for hazardous waste surface impoundments. The proposed amendments provide conformance between certain interim status requirements for surface impoundments and those requirements contained in the permitting rules.

4. Corrective action information requirements for Part B permit applications. The proposed amendments allow the owners or operators of hazardous waste facilities to submit certain information related to ground water corrective action after issuance of the permit, if authorized to do so by the MPCA Commissioner.

5. Corrections and modifications to the lists of hazardous wastes. The proposed amendments correct the chemical nomenclature for entries already existing in the lists of hazardous wastes and add Chemical Abstract Service registry numbers to all listings.

The MPCA is proposing these amendments in response to amendments to the federal hazardous waste program promulgated by the U.S. Environmental Protection Agency (EPA) on July 9, 1987 (52 FR 25942); July 11, 1986 (51 FR 25350) and November 18, 1987 (52 FR 44314); March 19, 1987 (52 FR 8704); June 22, 1987 (52 FR 23447); and August 6, 1986 (51 FR 28296), respectively. The proposed rule amendments correspond to the federal amendments with two exceptions. First, in Minn. Rules pts. 7045.0518, subp. 7, item A and 7045.0620, subp. 6, item A the Minnesota Pollution Control Agency is proposing to add two additional provisions pertaining to corporate guarantees for liability coverage. The first provision requires a corporate guarantee to be signed by two corporate officers of the parent corporation. The second provision requires a corporate resolution authorizing the parent corporation to provide the corporate guarantee be attached to the guarantee. Second, Minn. Rules pt. 7001.0640, subp. 2 will continue to require corrective action feasibility information in the Part B permit application whereas the federal amendments allow the submittal of this information after permit issuance if so authorized.

One free copy of the rule amendments is available upon request from Patrick Carey at the address and telephone number stated above.

A Statement of Need and Reasonableness that describes the need for and reasonableness of each provision of the proposed rule amendments and identifies the data and information relied upon to support the proposed rule amendments has been prepared and is available from Patrick Carey upon request.

You are hereby advised, pursuant to Minn. Stat. § 14.115 (1986), "Small business considerations in rulemaking," that the proposed rules will have a minimal impact on small businesses. Since the amendments are already required under the federal hazardous waste program, the MPCA is merely adopting as State rules the regulations already in effect on the federal level.

If no hearing is required, upon adoption of the rule amendments, the rule amendments and the required supporting documents will be submitted to the Attorney General for review as to legality and form to the extent form relates to legality. Any person may request notification of the date of submission to

the Attorney General. Persons who wish to be advised of the submission of this material to the Attorney General, or who wish to receive a copy of the rule as adopted, must submit a written request to Patrick Carey at the address stated above.

Dated: May 2, 1988

for Barbara Lindsay Sims
GERALD L. WILLET
Commissioner

STATE OF MINNESOTA
POLLUTION CONTROL AGENCY

In the Matter of the Proposed Rules Governing the Management of Hazardous Waste, Minn. Rules Pts. 7001.0640, 7045.0135, 7045.0141, 7045.0143, 7045.0484, 7045.0494, 7045.0518, 7045.0524, 7045.0602, 7045.0610, 7045.0620 and 7045.0630

AFFIDAVIT OF MAILING THE NOTICE OF INTENT TO ADOPT RULE AMENDMENTS WITHOUT A PUBLIC HEARING AND CERTIFICATE OF MAILING LIST

STATE OF MINNESOTA)
) ss.
COUNTY OF RAMSEY)

PATRICK F. CAREY, being duly sworn says:

I hereby certify that the list of persons and associations who have requested, pursuant to Minn. Stat. §§ 14.14, subd. 1a and 14.22 (1986) that their names be placed on the Minnesota Pollution Control Agency's rulemaking mailing list is accurate, complete, and current as of this 13TH day of MAY, 1988.

That on the 13TH day of MAY, 1988, at the City of St. Paul, County of Ramsey, State of Minnesota, I mailed the attached Notice of Intent to Adopt Rules Without a Public Hearing by depositing in the State of Minnesota Central Mail System or in the United States mail for first class mailing a copy thereof, with postage prepaid, to all persons and associations on the aforementioned mailing list.

PFC

Subscribed and sworn to before me
this 13 day of May, 1988.

Cynthia B. Gillingham
Notary Public

CYNTHIA B. GILLINGHAM
NOTARY PUBLIC - MINNESOTA
HENNEPIN COUNTY
My commission expires 10-3-91

Public Safety Department
7410.2500; .2600; .2610; .2800 (proposed) 2507
Public Safety Department: Crime Victims Reparation
7505.0100; .0200; .0400; .0600; .0700; .1900; .2700-.3000 (proposed) 2238
7505.0500; .0800-.1800; .2000-.2500 (proposed repealer) ... 2238
Racing Commission
7869.0100; 7870.0490; 7877.0110; .0170; .0175; 7883.0160; 7884.0170; 7890.0100; .0140; 7891.0100; 7895.0100 (proposed) 2208
7873.0190; 7875.0200; 7877.0125; 7883.0140; 7890.0110; 7892.0100; 7895.0110; .0125; .0250; .0275; .0300; .0350; 7897.0100 (adopted) 2393
7895.0100 s.7; .0110 s.7; .0125 s.4, 5, 6; .0250 s.7; .0275 s.3, 4, 5; .0350 s.4, 5, 6 (repealed) 2393
Revenue Department
8100.0200; .0300 (proposed) 2501
Secretary of State
8200.0300; .0400; .0700; .0800; .1100; .1200; .1500; .1700; .2100; .2200; .2600; .3700; .3800; .5100; .5400; .9910; .9919; .8220.1950; 8235.0200; 8240.2400 (adopted) 2215
8200.1300; .1600; .3800 s.2; .9916; .9922; .9925 (repealed) 2215
8210.0200; .9910; 8230.4350 (proposed) 2247
8220.0650; .0800 (adopted) 2426
Reinvest in Minnesota Conservation Reserve Program
8400.3000; .3100; .3150; .3200-.5600 (emergency extended) 2257
8400.3100 s.34, 36 (emergency repeal extended) 2257
Transportation Department
8800.2800 (proposed) 2391
Waste Management Board
9220.0100; .0110; .0120; .0130; .0140; .0150; .0160; .0170; .0180 (adopted) 2426
9220.0200-.0680 (adopted) 2513
Human Services Department
9500.1206; .1232; .1257; .1262; .1266 (adopted emergency) . 2310
9500.2890 (adopted emergency) 2310
9500.1206; .1257; .1262; .1266 (emergency extended) 2515
9500.2890 (emergency extended) 2515
9502.0335 (adopted) 2252
9505.0275; .1693; .1696; .1699; .1701; .1703; .1706; .1709; .1712; .1715; .1718; .1724; .1727; .1730; .1733; .1736; .1739; .1742; .1745; .1748 (proposed) 2190
9505.1500-.1690 (proposed repealer) 2190
9515.1000; .1200-.1500; .2200-.2600 (adopted) 2252
9515.1100 (repealed) 2252
9560.0210-.0234 (proposed) 2176
9560.0250; .0260; .0270; .0280; .0290; .0300 (proposed repealer) 2176
9560.0650-.0656 (emergency extended) 2516

Proposed Rules

Pursuant to Minn. Stat. of 1982, §§ 14.22, an agency may propose to adopt, amend, suspend or repeal rules without first holding a public hearing, as long as the agency determines that the rules will be noncontroversial in nature. The agency must first publish a notice of intent to adopt rules without a public hearing, together with the proposed rules, in the *State Register*. The notice must advise the public:

1. that they have 30 days in which to submit comment on the proposed rules;
2. that no public hearing will be held unless 25 or more persons make a written request for a hearing within the 30-day comment period;
3. of the manner in which persons shall request a hearing on the proposed rules; and
4. that the rule may be modified if the modifications are supported by the data and views submitted.

If, during the 30-day comment period, 25 or more persons submit to the agency a written request for a hearing of the proposed rules, the agency must proceed under the provisions of §§ 14.14-14.20, which state that if an agency decides to hold a public hearing, it must publish a notice of intent in the *State Register*.

Pursuant to Minn. Stat. §§ 14.29 and 14.30, agencies may propose emergency rules under certain circumstances. Proposed emergency rules are published in the *State Register* and, for at least 25 days thereafter, interested persons may submit data and views in writing to the proposing agency.

Pollution Control Agency

Proposed Permanent Rules Relating to Hazardous Waste; Corrective Action, Guarantees, Interim Status, Groundwater, and Lists

Notice of Intent to Adopt Rule Amendments Without a Public Hearing

KEY: PROPOSED RULES SECTION — Underlining indicates additions to existing rule language. ~~Strike outs~~ indicate deletions from existing rule language. If a proposed rule is totally new, it is designated "all new material." ADOPTED RULES SECTION — Underlining indicates additions to proposed rule language. ~~Strike outs~~ indicate deletions from proposed rule language.

Notice is hereby given that the Minnesota Pollution Control Agency (MPCA) intends to adopt the above-entitled rule amendments without a public hearing following the procedures set forth in the Administrative Procedure Act for adopting rules without a public hearing in *Minnesota Statutes* § 14.22 to 14.28 (1986). The MPCA's authority to adopt the rule amendments is set forth in *Minnesota Statutes* § 116.07, subd. 4 (1986).

All persons have until 4:30 p.m. on June 16, 1988, to submit comments in support of or in opposition to the proposed rule amendments or any part or subpart of the rules. Comment is encouraged. Each comment should identify the portion of the proposed rule amendments addressed, the reason for the comment, and any change proposed.

Any person may make a written request for a public hearing on the rule amendments within the comment period. If 25 or more persons submit a written request for a public hearing within the comment period, a public hearing will be held unless a sufficient number withdraw their requests in writing. Any person requesting a public hearing should state his or her name and address, and is encouraged to identify the portion of the proposed rule amendments addressed, the reason for the request, and any change proposed. If a public hearing is required, the MPCA will proceed pursuant to *Minnesota Statutes* §§ 14.131 to 14.20 (1986).

Comments or written requests for a public hearing must be submitted to:

Patrick Carey
Minnesota Pollution Control Agency
520 Lafayette Road North
St. Paul, Minnesota 55155
(612) 296-7767

The proposed rule amendments may be modified if the modifications are supported by data and views submitted to the MPCA and do not result in a substantial change in the proposed rule amendments as noticed.

The proposed rule amendments, if adopted, will pertain to the following:

1. Ground water monitoring with regard to analyzing for contamination at land-based hazardous waste facilities. The proposed amendments replace current ground water monitoring requirements to analyze for the general list of all constituents set out in *Minnesota Rules* pt. 7045.0141 with new requirements to analyze for a specific list of chemicals.

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4. Corrective action information requirements for Part B permit applications. The proposed amendments allow the owners or operators of hazardous waste facilities to submit certain information related to ground water corrective action after issuance of the permit, if authorized to do so by the MPCA Commissioner.

5. Corrections and modifications to the lists of hazardous wastes. The proposed amendments correct the chemical nomenclature for entries already existing in the lists of hazardous wastes and add Chemical Abstract Service registry numbers to all listings.

The MPCA is proposing these amendments in response to amendments to the federal hazardous waste program promulgated by the U.S. Environmental Protection Agency (EPA) on July 9, 1987 (52 *FR* 25942); July 11, 1986 (51 *FR* 25350) and November 18, 1987 (52 *FR* 44314); March 19, 1987 (52 *FR* 8704); June 22, 1987 (52 *FR* 23447); and August 6, 1986 (51 *FR* 28296), respectively. The proposed rule amendments correspond to the federal amendments with two exceptions. First, in *Minnesota Rules* pts. 7045.0518, subp. 7, item A and 7045.0620, subp. 6, item A the Minnesota Pollution Control Agency is proposing to add two additional provisions pertaining to corporate guarantees for liability coverage. The first provision requires a corporate guarantee to be signed by two corporate officers of the parent corporation. The second provision requires a corporate resolution authorizing the parent corporation to provide the corporate guarantee be attached to the guarantee. Second, *Minnesota Rules* pt. 7001.0640, subp. 2 will continue to require corrective action feasibility information in the Part B permit application whereas the federal amendments allow the submittal of this information after permit issuance if so authorized.

The proposed rule amendments are published below. One free copy of the rule amendments is available upon request from Patrick Carey at the address and telephone number stated above.

A Statement of Need and Reasonableness that describes the need for and reasonableness of each provision of the proposed rule amendments and identifies the data and information relied upon to support the proposed rule amendments has been prepared and is available from Patrick Carey upon request.

You are hereby advised, pursuant to *Minnesota Statutes* § 14.115 (1986), "Small business considerations in rulemaking," that the proposed rules will have a minimal impact on small businesses. Since the amendments are already required under the federal hazardous waste program, the MPCA is merely adopting as State rules the regulations already in effect on the federal level.

If no hearing is required, upon adoption of the rule amendments, the rule amendments and the required supporting documents will be submitted to the Attorney General for review as to legality and form to the extent form relates to legality. Any person may request notification of the date of submission to the Attorney General. Persons who wish to be advised of the submission of this material to the Attorney General, or who wish to receive a copy of the rule as adopted, must submit a written request to Patrick Carey at the address stated above.

Gerald L. Willet
Commissioner

Rule as Proposed

7001.0640 ADDITIONAL PART B INFORMATION REQUIREMENTS FOR SURFACE IMPOUNDMENTS, WASTE PILES, LAND TREATMENT UNITS, AND LANDFILLS.

Subpart 1. **Groundwater protection.** The additional information designated in items A to G regarding protection of groundwater is required from owners or operators of hazardous waste surface impoundments, waste piles, land treatment units, and landfills, except as otherwise provided in part 7045.0484, subpart 1, item B, and must be submitted with Part B of the permit application. The following information is in addition to the information requirements of parts 7001.0560, 7001.0590, 7001.0600, 7001.0610, and 7001.0620:

A. to C. [Unchanged.]

D. A description of any plume of contamination that has entered the groundwater from a regulated unit at the time that the application is submitted that:

(1) [Unchanged.]

(2) identifies the concentration of each constituent listed in part ~~7045.0141~~ 7045.0143 throughout the plume or identifies the maximum concentrations of each such constituent in the plume. The commissioner may require this information on additional constituents if waste managed at the facility has met the characteristic of toxicity as defined in part 7045.0131, subpart 6.

E. to G. [Unchanged.]

Subp. 2. **Corrective action program.** The owner or operator of a hazardous waste surface impoundment, waste pile, land treatment unit, or landfill shall submit to the commissioner with Part B of the permit application sufficient information, supporting data, and analyses to establish a corrective action program that meets the requirements of part 7045.0484, subpart 14. The submittal must demonstrate that corrective action is feasible if the groundwater protection standard is exceeded. To demonstrate compliance with part 7045.0484, subpart 14, the owner or operator shall address the following items:

A. to F. [Unchanged.]

The permit may contain a schedule for submittal of the information required in items C and D if the owner or operator obtains written authorization from the commissioner before submitting the permit application.

7045.0135 LISTS OF HAZARDOUS WASTES.

Subpart 1. to 3. [Unchanged.]

Subp. 4. **Discarded commercial chemical products, off-specification species, containers, and spill residues.** The following materials or items are hazardous wastes when they are discarded or intended to be discarded; when they are mixed with waste oil or used oil or other material and applied to the land for dust suppression or road treatment; or when, in lieu of their original use, they are produced for use as, or as a component of a fuel, distributed for use as a fuel, or burned as a fuel.

A. to D. [Unchanged.]

E. the commercial chemical products or manufacturing chemical intermediates, or off-specification commercial chemical products or manufacturing chemical intermediates referred to in items A to D and listed in subitems (1) to (17), are identified as acute hazardous wastes (H) and are subject to the small quantity exclusion defined in part 7045.0219, subpart 1, items B and C. The primary hazardous properties of these materials have been indicated by the letters T (toxicity), and R (reactivity). Absence of a letter indicates that the compound is listed only for acute toxicity. These wastes and their corresponding hazardous waste numbers, chemical abstracts numbers, if known, and hazard codes are listed in subitems (1) to (17).

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(1) Hazardous wastes from commercial chemical products beginning with the letter A:

(a) P023, 107-20-0, Acetaldehyde, chloro-;

(b) P002, 591-08-2, Acetamide, N-(aminothioxomethyl)-;

(c) P057, 640-19-7, Acetamide, 2-fluoro-;

(d) P058, 62-74-8, Acetic acid, fluoro-, sodium salt;

(e) P066, 16752-77-5, Acetimidic acid, N-[(methylcarbamoyl)oxy] thio-, methyl ester;

(f) ~~P001, 3-(alpha-Acetonylbenzyl)-4-hydroxycoumarin and salts when present at concentrations greater than 0.3 percent;~~

~~(g)~~ P002, 591-08-2, 1-Acetyl-2-thiourea;

~~(h)~~ (g) P003, 107-02-8, Acrolein;

~~(i)~~ (h) P070, 116-06-3, Aldicarb;

~~(j)~~ (i) P004, 309-00-2, Aldrin;

~~(k)~~ (j) P005, 107-18-6, Allyl alcohol;

~~(l)~~ (k) P006, 20859-73-8, Aluminum phosphide: (R,T);

~~(m)~~ (l) P007, 2763-96-4, 5-(Aminomethyl)-3-isoxazolol;

~~(n)~~ (m) P008, ~~4-Aminopyridine~~ 504-24-5, 4-alpha-Aminopyridine;

~~(o)~~ (n) P009, 131-74-8, Ammonium picrate: (R);

~~(p)~~ (o) P119, 7803-55-6, Ammonium vanadate;

~~(q)~~ (p) P010, 7778-39-4, Arsenic acid;

~~(r)~~ (q) P012, 1327-53-3, Arsenic ~~(III)~~ oxide As_2O_3;

~~(s)~~ (r) P011, 1303-28-2, Arsenic ~~(V)~~ oxide As_2O_5;

~~(t)~~ (s) P011, 1303-28-2, Arsenic pentoxide;

~~(u)~~ (t) P012, 1327-53-3, Arsenic trioxide;

~~(v)~~ (u) P038, 692-42-2, Arsine, diethyl; ~~and~~

(v) P036, 696-28-6, Arsonous dichloride, phenyl-; and

(w) P054, 151-56-4, Aziridine.

(2) Hazardous wastes from commercial chemical products beginning with the letter B:

(a) P013, 542-62-1, Barium cyanide;

(b) P024, 106-47-8, Benzenamine, 4-chloro-;

(c) P077, 100-01-6, Benzenamine, 4-nitro-;

(d) P028, 100-44-7, Benzene, (chloromethyl)-;

(e) P042, 51-43-4, 1,2-Benzenediol, 4-[1-hydroxy-2-(methylamino)ethyl]-; (R);

(f) P046, 122-09-8, Benzeneethanamine, alpha, alpha-dimethyl-;

~~(f)~~ (g) P014, 108-98-5, Benzenethiol;

~~(g)~~ (h) P001, 81-81-2, 2H-1-Benzopyran-2-one, 4-hydroxy-3-(3-oxo-1-phenylbutyl)-, and salts;

(i) P028, 100-44-7, Benzyl chloride;

~~(h)~~ (j) P015, 7440-41-7, Beryllium dust;

~~(i)~~ (k) P016, 542-88-1, Bis(chloromethyl) ether;

~~(j)~~ (l) P017, 598-31-2, Bromoacetone; and

~~(k)~~ (m) P018, 357-57-3, Brucine.

(3) Hazardous wastes from commercial chemical products beginning with the letter C:

(a) P021, 592-01-8, Calcium cyanide;

(b) ~~P123, Camphene, octachloro-;~~

~~(c) P103, Carbamimidoselenoic acid;~~

~~(d)~~ P022, 75-15-0, Carbon bisulfide;

~~(e)~~ (c) P022, 75-15-0, Carbon disulfide;

~~(f)~~ (d) P095, ~~Carbonyl chloride~~ 75-44-5, Carbonic dichloride;

~~(g) P033, Chlorine cyanide;~~

~~(h)~~ (e) P023, 107-20-0, Chloroacetaldehyde;

~~(i)~~ (f) P024, 106-47-8, p-Chloroaniline;

~~(j) P026, 1-(o-Chlorophenyl)thiourea;~~

~~(k) P027, 3-Chloropropionitrile;~~

~~(l)~~ (g) P029, 544-92-3, Copper cyanides;

~~(m)~~ (h) P030, ..., Cyanides (soluble cyanide salts), not ~~elsewhere~~ otherwise specified;

~~(n)~~ (i) P031, 460-19-5, Cyanogen; ~~and~~

~~(o)~~ (j) P033, 506-77-4, Cyanogen chloride; and

(k) P034, 131-89-5, 2-Cyclohexyl-4,6-dinitrophenol.

(4) Hazardous wastes from commercial chemical products beginning with the letter D:

(a) P036, 696-28-6, Dichlorophenylarsine;

(b) P037, 60-57-1, Dieldrin;

(c) P038, 692-42-2, Diethylarsine;

(d) ~~P039, O,O-Diethyl S-[2-(ethylthio)ethyl] phosphorodithioate;~~

~~(e)~~ P041, 311-45-5, Diethyl-p-nitrophenyl phosphate;

~~(f)~~ (e) P040, 297-97-2, O,O-Diethyl O-pyrazinyl phosphorothioate;

~~(g)~~ (f) P043, 55-91-4, Diisopropyl fluorophosphate (DEP);

(g) P004, 309-00-2, 1,4:5,8-dimethanonaphthalene, 1,2,3,4,10,10-hexachloro-1,4,4a,5,8,8a-hexahydro-, (1alpha, 4alpha, 4abeta, 5alpha, 8alpha, 8abeta)-;

(h) P060, 465-73-6, 1,4:5,8-dimethanonaphthalene, 1,2,3,4,10,10-hexachloro-1,4,4a,5,8,8a-hexahydro-, (1alpha, 4alpha, 4abeta, 5beta, 8beta, 8abeta)-;

(i) P037, 60-57-1, 2,7:3,6-dimethanonaphth[2,3b]oxirane, 3,4,5,6,9,9-hexachloro-1a,2,2a,3,6,6a,7,7a-octahydro-, (1aalpha, 2beta, 2aalpha, 3beta, 6beta, 6aalpha, 7beta, 7aalpha)-;

(j) P051, 72-20-8, 2,7:3,6-dimethanonaphth[2,3b]oxirane, octahydro-, (1aalpha, 2beta, 2abeta, 3alpha, 6alpha, 6abeta, 7beta, 7aalpha)-;

~~(h)~~ (k) P044, 60-51-5, Dimethoate;

~~(i)~~ (l) P045, 39196-18-4, 3,3-Dimethyl-1-(methylthio)-2-butanone, O-[(methylamino)carbonyl] oxime;

~~(j) P071, O,O-Dimethyl O-p-nitrophenyl phosphorothioate;~~

~~(k) P082, Dimethylnitrosamine;~~

~~(l)~~ (m) P046, 122-09-8, alpha, alpha-Dimethylphenethylamine;

~~(m)~~ (n) P047, 534-52-1, 4,6-Dinitro-o-cresol and salts;

~~(n) P034, 4,6-Dinitro-o-cyclohexylphenol;~~

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(o) P048, 51-28-5, 2,4-Dinitrophenol;

(p) P020, 88-85-7, Dinoseb;

(q) P085, 152-16-9, Diphosphoramide, octamethyl-;

(r) P039, 298-04-4, Disulfoton; and

(s) P049, 541-53-7, 2,4-Dithiobiuret; ~~and~~

~~(t) P109, Dithiopyrophosphoric acid, tetraethyl ester~~.

(5) Hazardous wastes from commercial chemical products beginning with the letter E:

(a) P050, 115-29-7, Endosulfan;

(b) P088, ~~Endothall~~ 145-73-3, Endothal;

(c) P051, 72-20-8, Endrin;

(d) P042, 51-43-4, Epinephrine;

(e) ~~P046, Ethanamine, 1,1 dimethyl 2 phenyl ;~~

~~(f) P084, Ethenamine, N methyl N nitroso ;~~

~~(g)~~ P101, 107-12-0, Ethyl cyanide; and

~~(h)~~ (f) P054, ~~Ethylenimine~~ 151-56-4, Ethyleneimine.

(6) Hazardous wastes from commercial chemical products beginning with the letter F:

(a) P097, 52-85-7, Famphur;

(b) P056, 7782-41-4, Fluorine;

(c) P057, 640-19-7, Fluoroacetamide;

(d) P058, 62-74-8, Fluoroacetic acid, sodium salt; and

(e) P065, 628-86-4, Fulminic acid, ~~mercury(II)~~ mercury(2+)salt: (R,T).

(7) Hazardous wastes from commercial chemical products beginning with the letter H:

(a) P059, 76-44-8, Heptachlor;

(b) ~~P051, 1,2,3,4,10,10 Hexachloro 6,7 epoxy 1,4,4a,5,6,7,8,8a octahydro endo,endo 1,4:5,8 dimethanonaphthalene;~~

~~(c) P037, 1,2,3,4,10,10 Hexachloro 6,7 epoxy 1,4,4a,5,6,7,8,8a octahydro endo,exo 1,4:5,8 dimethanonaphthalene;~~

~~(d) P060, 1,2,3,4,10,10 Hexachloro 1,4,4a,5,8,8a hexahydro 1,4:5,8 endo,endo dimethanonaphthalene;~~

~~(e) P004, 1,2,3,4,10,10 Hexachloro 1,4,4a,5,8,8a hexahydro 1,4:5,8 endo,exo dimethanonaphthalene;~~

~~(f) P060, Hexachlorohexahydro endo,endo dimethanonaphthalene;~~

~~(g)~~ P062, 757-58-4, Hexaethyltetraphosphate;

~~(h)~~ (c) P116, 79-19-6, Hydrazinecarbothioamide;

~~(i)~~ (d) P068, 60-34-4, Hydrazine, methyl-;

~~(j)~~ (e) P063, 74-90-8, Hydrocyanic acid;

~~(k)~~ (f) P063, 74-90-8, Hydrogen cyanide; and

~~(l)~~ (g) P096, 7803-51-2, Hydrogen phosphide.

(8) Hazardous wastes from commercial chemical products beginning with the letter I:

(a) P064, 624-83-9, Isocyanic acid, methyl ester; ~~and~~

(b) P060, 465-73-6, Isodrin; and

(c) P007, 2763-96-4, 3(2H)-Isoxazolone, 5-(aminomethyl)-.

(9) Hazardous wastes from commercial chemical products beginning with the letter M:

(a) P092, 62-38-4, Mercury, (acetato-O)phenyl-;

(b) P065, 628-86-4, Mercury fulminate: (R,T);

(c) P082, 62-75-9, Methamine, N-methyl-N-nitroso-;

(d) P016, 542-88-1, Methane, oxybis(chloro)-;

~~(d)~~ (e) P112, 509-14-8, Methane, tetranitro-: (R);

~~(e)~~ (f) P118, 75-70-7, Methanethiol, trichloro-;

(g) P050, 115-29-7, 6,9-Methano-2,4,3-benzodioxathiepen, 6,7,8,9,10,10-hexachloro- 1,5,5a,6,9,9a-hexahydro-, 3-oxide;

~~(f)~~ (h) P059, 76-44-8, 4,7-Methano-1H-indene, 1,4,5,6,7,8,8-heptachloro-3a,4,7,7a-tetrahydro-;

~~(g)~~ (i) P066, 16752-77-5, Methomyl;

~~(h)~~ (j) P067, 75-55-8, 2-Methylaziridine;

~~(i)~~ (k) P068, 60-34-4, Methyl hydrazine;

~~(j)~~ (l) P064, 624-83-9, Methyl isocyanate;

~~(k)~~ (m) P069, 75-86-5, 2-Methyllactonitrile; and

~~(l)~~ (n) P071, 298-00-0, Methyl parathion.

(10) Hazardous wastes from commercial chemical products beginning with the letter N:

(a) P072, 86-88-4, alpha-Naphthylthiourea;

(b) P073, 13463-39-3, Nickel carbonyl;

(c) P073, 13463-39-3, Nickel carbonyl, (T-4)-;

(d) P074, 557-19-7, Nickel cyanide;

~~(d) P074, Nickel(II) cyanide;~~

~~(e) P073, Nickel tetracarbonyl;~~

~~(f)~~ (e) P075, 54-11-5, Nicotine and salts;

~~(g)~~ (f) P076, 10102-43-9, Nitric oxide;

~~(h)~~ (g) P077, 100-01-6, p-Nitroaniline;

~~(i)~~ (h) P078, 10102-44-0, Nitrogen dioxide;

~~(j)~~ (i) P076, ~~Nirtogen(II)~~ 10102-43-9, Nitrogen oxide NO;

~~(k)~~ (j) P078, ~~Nitrogen(IV)~~ 10102-44-0, Nitrogen oxide NO_2;

~~(l)~~ (k) P081, ~~Nitroglycerin~~ 55-63-0, Nirtoglycerine: (R);

~~(m)~~ (l) P082, 62-75-9, N-Nitrosodimethylamine; and

~~(n)~~ (m) P084, 4549-40-0, N-Nitrosomethylvinylamine~~;~~ ~~and~~

~~(o) P050, 5-Norbornene-2,3-dimethanol, 1,4,5,6,7,7-hexachloro, cyclic sulfite~~.

(11) Hazardous wastes from commercial chemical products beginning with the letter O:

(a) P085, 152-16-9, Octamethylpyrophosphoramide;

(b) P087, 20816-12-0, Osmium oxide;

(c) P087, 20816-12-0, Osmium tetroxide; and

(d) P088, 145-73-3, 7-Oxabicyclo[2.2.1]heptane-2,3-dicarboxylic acid.

(12) Hazardous wastes from commercial chemical products beginning with the letter P:

(a) P089, 56-38-2, Parathion;

(b) P034, 131-89-5, Phenol, 2-cyclohexyl-4,6-dinitro-;

(c) P048, 51-28-5, Phenol, 2,4-dinitro-;

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(d) P047, 534-52-1, Phenol, ~~2,4 dinitro 6 methyl~~ 2-methyl-4,6-dinitro-, and salts;

(e) P020, 88-85-7, Phenol, ~~2,4 dinitro 6 (1 methylpropyl)~~ 2-(1-methylpropyl)-4,6-dinitro-;

(f) P009, 131-74-8, Phenol, 2,4,6-trinitro-, ammonium salt: (R);

(g) ~~P036, Phenyl dichloroarsine;~~

~~(h)~~ P092, ~~Phenylmercurie~~ 62-38-4, Phenylmercury acetate;

~~(i)~~ (h) P093, ~~N Phenylthiourea~~ 103-85-5, Phenylthiourea;

~~(j)~~ (i) P094, 298-02-2, Phorate;

~~(k)~~ (j) P095, 75-44-5, Phosgene;

~~(l)~~ (k) P096, 7803-51-2, Phosphine;

~~(m)~~ (l) P041, 311-45-5, Phosphoric acid, diethyl ~~p nitrophenyl~~ 4-nitrophenyl ester;

(m) P039, 298-04-4, Phosphorodithioic acid, 0,0-diethyl S-[2-(ethylthio)ethyl]ester;

(n) P094, 298-02-2, Phosphorodithioic acid, 0,0-diethyl S-[(ethylthio)methyl]ester;

(o) P044, 60-51-5, Phosphorodithioic acid, O,O-dimethyl S[2-(methylamino)-2-oxoethyl]ester;

~~(o)~~ (p) P043, ~~Phosphorofluoridie~~ 55-91-4, Phosphorofluoric acid, bis(1-methylethyl)- ester;

~~(p) P094, Phosphorothioic acid, O,O diethyl S (ethylthio)methyl ester;~~

(q) P089, 56-38-2, Phosphorothioic acid, O,O-diethyl O-(~~p nitrophenyl~~ 4-nitrophenyl) ester;

(r) P040, 297-97-2, Phosphorothioic acid, O,O-diethyl O-pyrazinyl ester;

(s) P097, 52-85-7, Phosphorothioic acid, ~~O,O dimethyl O [p ((dimethylamino) sulfonyl)phenyl]ester~~ O-[4-((dimethylamino)sulfonyl)phenyl]O,O-dimethyl ester;

(t) P071, 298-00-0, Phosphorothioic acid, O,O-dimethyl 0-(4-nitrophenyl) ester;

(u) P110, 78-00-2, Plumbane, tetraethyl-;

~~(u)~~ (v) P098, 151-50-8, Potassium cyanide;

~~(v)~~ (w) P099, 506-61-6, Potassium silver cyanide;

~~(w)~~ (x) P070, 116-06-3, Propanal, 2-methyl-2-(methylthio)-, O-[(methylamino)carbonyl]oxime;

~~(x)~~ (y) P101, 107-12-0, Propanenitrile;

~~(y)~~ (z) P027, 542-76-7, Propanenitrile, 3-chloro-;

~~(z)~~ (aa) P069, 75-86-5, Propanenitrile, 2-hydroxy-2-methyl-;

~~(aa)~~ (bb) P081, 55-63-0, 1,2,3-Propanetriol, trinitrate: (R);

~~(bb)~~ (cc) P017, 598-31-2, 2-Propanone, 1-bromo-;

~~(cc)~~ (dd) P102, 107-19-7, Propargyl alcohol;

~~(dd)~~ (ee) P003, 107-02-8, 2-Propenal;

~~(ee)~~ (ff) P005, 107-18-6, 2-Propen-1-ol;

~~(ff)~~ (gg) P067, 75-55-8, 1,2-Propylenimine;

~~(gg)~~ (hh) P102, 591-08-2, 2-Propyn-1-ol;

~~(hh)~~ (ii) P008, ~~4 Pyridinamine~~ 504-24-5, Pyridinamine;

~~(ii)~~ (jj) P075, 54-11-5, Pyridine, (S)-3-(1-methyl-2-pyrrolidinyl)-, and salts; and

~~(jj)~~ (kk) P111, 107-49-3, Pyrophosphoric acid, tetraethyl ester.

(13) Hazardous wastes from commercial chemical products beginning with the letter S:

(a) P103, 630-10-4, Selenourea;

(b) P104, 506-64-9, Silver cyanide;

(c) P105, 26628-22-8, Sodium azide;

(d) P106, 143-33-9, Sodium cyanide;

(e) P107, 1314-96-1, Strontium sulfide;

(f) P108, 57-24-9, Strychnidin-10-one, and salts;

(g) P018, 357-57-3, Strychnidin-10-one, 2,3-dimethoxy-;

(h) P108, 57-24-9, Strychnine and salts; and

(i) P115, 10031-59-1, Sulfuric acid, thallium(I) salt.

(14) Hazardous wastes from commercial chemical products beginning with the letter T:

(a) P109, 3689-24-5, Tetraethyldithiopyrophosphate;

(b) P110, 78-00-2, Tetraethyl lead;

(c) P111, 107-49-3, Tetraethylpyrophosphate;

(d) P112, 509-14-8, Tetranitromethane: (R);

(e) P062, 757-58-4, Tetraphosphoric acid, hexaethyl ester;

(f) P113, 1314-32-5, Thallic oxide;

(g) P113, 1314-32-5, Thallium(III) oxide;

(h) P114, 12039-52-0, Thallium(I) ~~selenide~~ selenite;

(i) P115, 10031-59-1, Thallium(I) sulfate;

(j) P109, 3689-24-5, Thiodiphosphoric acid, tetraethyl ester;

~~(j)~~ (k) P045, 39196-18-4, Thiofanox;

~~(k)~~ (l) P049, 541-53-7, Thioimidodicarbonic diamide;

~~(l)~~ (m) P014, 108-98-5, Thiophenol;

~~(m)~~ (n) P116, 79-19-6, Thiosemicarbazide;

~~(n)~~ (o) P026, 5344-82-1, Thiourea, (2-chlorophenyl)-;

~~(o)~~ (p) P072, 86-88-4, Thiourea, 1-naphthalenyl-;

~~(p)~~ (q) P093, 103-85-5, Thiourea, phenyl-;

~~(q)~~ (r) P123, 8001-35-2, Toxaphene; and

~~(r)~~ (s) P118, 75-70-7, Trichloromethanethiol.

(15) Hazardous wastes from commercial chemical products beginning with the letter V:

(a) P119, 7803-55-6, Vanadic acid, ammonium salt;

(b) ~~P120, Vanadium pentoxide; and~~

~~(c)~~ P120, 1314-62-1, Vanadium(V) oxide; and

(c) P084, 4549-40-0, Vinylamine, N-methyl-N-nitroso-.

(16) Hazardous wastes from commercial chemical products beginning with the letter W: P001, 81-81-2, Warfarin ~~when present at concentrations greater than 0.3 percent~~.

(17) Hazardous wastes from commercial chemical products beginning with the letter Z:

(a) P121, 557-21-1, Zinc cyanide; and

(b) ~~P122, Zinc phosphide when present at concentrations greater than 10 percent: (R,T)~~ P122, 1314-84-7, Zinc phosphide: (R,T).

F. The commercial chemical products or manufacturing chemical intermediates, or off-specification commercial chemical products referred to in items A to D, and listed in subitems (1) to (24) are identified as toxic wastes (T) unless otherwise designated and are subject to the small quantity exclusion defined in part 7045.0219, subpart 1, item A. The primary hazardous properties of

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these materials have been indicated by the letters T (toxicity), R (reactivity), I (ignitability), and C (corrosivity). Absence of a letter indicates that the compound is listed only for toxicity. These wastes and their corresponding hazardous waste numbers, chemical abstracts numbers, if known, and hazard codes are listed as follows:

(1) Hazardous wastes from commercial chemical products beginning with the letter A:

(a) U001, 75-07-0, Acetaldehyde: (I);

(b) U034, 75-87-6, Acetaldehyde, trichloro-;

(c) U187, 62-44-2, Acetamide, N-(4-ethoxyphenyl)-;

(d) U005, 53-96-3, Acetamide, N-9H-fluoren-2-yl;

(e) U112, 141-78-6, Acetic acid, ethyl ester: (I);

(f) U144, 301-04-2, Acetic acid, lead salt;

(g) U214, 563-68-8, Acetic acid, ~~thallium(I)~~ thallium(1 +) salt;

(h) U232, 93-76-5, Acetic acid, (2,4,5-trichlorophenoxy)-;

(i) U002, 67-64-1, Acetone: (I);

~~(i)~~ (j) U003, 75-05-8, Acetonitrile: (I,T);

~~(j) U248, 3-(alpha-Acetonylbenzyl)-4-hydroxycoumarin and salts when present at concentrations of 0.3 percent or less;~~

(k) U004, 98-86-2, Acetophenone;

(l) U005, 53-96-3, 2-Acetylaminofluorene;

(m) U006, 75-36-5, Acetyl chloride: (C,R,T);

(n) U007, 79-06-1, Acrylamide;

(o) U008, 79-10-7, Acrylic acid: (I);

(p) U009, 107-13-1, Acrylonitrile;

(q) ~~U150, Alanine, 3-[p-bis(2-chloroethyl)amino] phenyl-,L-;~~

~~(r)~~ U011, 61-82-5, Amitrole;

~~(s) U328, 2-Amino-1-methylbenzene;~~

~~(t) U353, 4-Amino-1-methylbenzene;~~

~~(u)~~ (r) U012, 62-53-3, Aniline: (I,T);

~~(v)~~ (s) U014, 492-80-8, Auramine;

~~(w)~~ (t) U015, 115-02-6, Azaserine; and

~~(x)~~ (u) U010, 50-07-7, Azirino(2',3':3,4)pyrrolo(1,2-a)indole-4,7-dione, 6-amino-8-[((aminocarbonyl) oxy)methyl]-1,1a,2,8,8a,8b-hexahydro- 8a-methoxy-5-methyl-,.

(2) Hazardous wastes from commercial chemical products beginning with the letter B:

(a) U157, 50-49-5, Benz[j]aceanthrylene, 1,2-dihydro-3-methyl-;

(b) ~~U016, Benz[c]acridine;~~

~~(c)~~ U016, 225-51-4, 3,4-Benzacridine;

~~(d)~~ (c) U017, 98-87-3, Benzal chloride;

(d) U192, 23950-58-5, Benzamide, 3,5-dichloro-N-(1,1-diethyl-2-propynyl)-;

(e) U018, 56-55-3, Benz[a]anthracene;

(f) ~~U018, 1,2-Benzanthracene;~~

~~(g)~~ U094, ~~1,2-Benzanthracene~~ 57-97-6, Benz[a]anthracene, 7,12-dimethyl-;

~~(h)~~ (g) U012, 62-53-3, Benzenamine: (I,T);

~~(i)~~ (h) U014, 492-80-8, Benzenamine, 4,4'-carbonimidoylbis (N,N-dimethyl)-;

~~(j)~~ (i) U049, 3165-93-3, Benzenamine, 4-chloro-2-methyl-;

~~(k)~~ (j) U093, 60-11-7, Benzenamine, ~~N,N'-dimethyl-4-phenylazo-~~ N,N-dimethyl-4-(phenylazo)-;

(k) U328, 95-53-4, Benzenamine, 2-methyl-;

(l) U353, 106-49-0, Benzenamine, 4-methyl-;

(m) U158, 101-14-4, Benzenamine, 4,4'-methylenebis(2-chloro)-;

~~(m)~~ (n) U222, 636-21-5, Benzenamine, 2-methyl-, hydrochloride;

~~(n)~~ (o) U181, 99-55-8, Benzenamine, 2-methyl-5-nitro-;

~~(o)~~ (p) U019, 71-43-2, Benzene~~; (I,T)~~;

~~(p)~~ (q) U038, 510-15-6, Benzeneacetic acid, 4-chloro-alpha- (4-chlorophenyl)-alpha-hydroxy, ethyl ester;

~~(q)~~ (r) U030, 101-55-3, Benzene, 1-bromo-4-phenoxy-;

(s) U035, 305-03-3, Benzenebutanoic acid, 4-[bis(2-chloroethyl)amino]-;

~~(r)~~ (t) U037, 108-90-7, Benzene, chloro-;

~~(s) U190, 1,2-Benzenedicarboxylic acid anhydride;~~

(u) U221, 25376-45-8, Benzenediamine, ar-methyl-;

~~(t)~~ (v) U028, 117-81-7, 1,2-Benzenedicarboxylic ~~acid, {bis(2-ethyl-hexyl)}~~ acid,bis(2-ethylhexy) ester;

~~(u)~~ (w) U069, 84-74-2, 1,2-Benzenedicarboxylic acid, dibutyl ester;

~~(v)~~ (x) U088, 84-66-2, 1,2-Benzenedicarboxylic acid, diethyl ester;

~~(w)~~ (y) U102, 131-11-3, 1,2-Benzenedicarboxylic acid, dimethyl ester;

~~(x)~~ (z) U107, 117-84-0, 1,2-Benzenedicarboxylic acid, di-n-octyl ester;

~~(y)~~ (aa) U070, 95-50-1, Benzene, 1,2-dichloro-;

~~(z)~~ (bb) U071, 541-73-1, Benzene, 1,3-dichloro-;

~~(aa)~~ (cc) U072, 106-46-7, Benzene, 1,4-dichloro-;

~~(bb)~~ (dd) U017, 98-87-3, Benzene, (dichloromethyl)-;

~~(cc)~~ (ee) U223, 26471-62-5, Benzene, 1,3-diisocyanatomethyl-: (R,T);

~~(dd)~~ (ff) U239, 1330-20-7, Benzene, dimethyl-: (I,T);

~~(ee)~~ (gg) U201, 108-46-3, 1,3-Benzenediol;

~~(ff)~~ (hh) U127, 118-74-1, Benzene, hexachloro-;

~~(gg)~~ (ii) U056, 110-82-7, Benzene, hexahydro-: (I);

~~(hh) U188, Benzene, hydroxy-;~~

(jj) U060, 72-54-8, Benzene, 1,1'-(2,2-dichloroethylidene)bis[4-chloro]-;

~~(ii)~~ (kk) U220, 108-88-3, Benzene, methyl-;

~~(jj)~~ (ll) U105, 121-14-2, Benzene, ~~1-methyl-1-2,4-dinitro-~~ 1-methyl-2,4-dinitro-;

~~(kk)~~ (mm) U106, 606-20-2, Benzene, ~~1-methyl-2,6~~ 2-methyl-1,3-dinitro-;

~~(ll) U203, Benzene, 1,2-methylenedioxy-4-allyl-;~~

~~(mm) U141, Benzene, 1,2-methylenedioxy-4-propenyl-;~~

~~(nn) U090, Benzene, 1,2-methylenedioxy-4-propyl-;~~

~~(oo)~~ (nn) U055, 98-82-8, Benzene, (1-methylethyl)-: (I);

~~(pp)~~ (oo) U169, 98-95-3, Benzene, nitro-: (I,T);

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~~(qq)~~ (pp) U183, 608-93-5, Benzene, pentachloro-;

~~(rr)~~ (qq) U185, 82-68-8, Benzene, pentachloronitro-;

~~(ss)~~ (rr) U020, 98-09-9, Benzenesulfonic acid chloride: (C,R);

~~(tt)~~ (ss) U020, 98-09-9, Benzenesulfonyl chloride: (C,R);

~~(uu)~~ (tt) U207, 95-94-3, Benzene, 1,2,4,5-tetrachloro-;

(uu) U061, 50-29-3, Benzene, 1,1'-(2,2,2-trichloroethylidene)bis[4-chloro]-;

(vv) U247, 72-43-5, Benzene, 1,1'-(2,2,2-trichloroethylidene)[4-methoxy]-;

~~(vv)~~ (ww) U023, 98-07-7, Benzene, (trichloromethyl)-: (C,R,T);

~~(ww)~~ (xx) U234, 99-35-4, Benzene, 1,3,5-trinitro-: (R,T);

~~(xx)~~ (yy) U021, 92-87-5, Benzidine;

~~(yy)~~ (zz) U202, ~~1,2-Benzisothiazolin-3-one,1,1-dioxide~~ 81-07-2, 1,2-Benzisothiazol-3(2H)-one, 1,1-dioxide and salts;

~~(zz) U120, Benzo[j,k]fluorene;~~

(aaa) U203, 94-59-7, 1,3-Benzodioxole, 5-(2-propenyl)-;

(bbb) U141, 120-58-1, 1,3-Benzodioxole, 5-(1-propenyl)-;

(ccc) U090, 94-58-6, 1,3-Benzodioxole, 5-propyl-;

(ddd) U064, 189-55-9, Benzo[rst]pentaphene;

~~(aaa)~~ (eee) U022, 50-32-8, Benzo[a]pyrene;

~~(bbb) U022, 3,4-Benzopyrene;~~

~~(ccc)~~ (fff) U197, 106-51-4, p-Benzoquinone;

~~(ddd)~~ (ggg) U023, 98-07-7, Benzotrichloride: (C,R,T);

~~(eee) U050, 1,2-Benzphenanthrene;~~

~~(fff)~~ (hhh) U085, 1464-53-5, 2,2'-Bioxirane: (I,T);

~~(ggg)~~ (iii) U021, 92-87-5, (1,1'-Biphenyl)-4,4'-diamine;

~~(hhh)~~ (jjj) U073, 91-94-1, (1,1'-Biphenyl)-4,4'-diamine, 3,3'-dichloro-;

~~(iii)~~ (kkk) U091, 119-90-4, (1,1'-Biphenyl)-4,4'-diamine, 3,3'-dimethoxy-;

~~(jjj)~~ (lll) U095, 119-93-7, (1,1'-Biphenyl)-4,4'-diamine, 3,3'-dimethyl-;

(mmm) U027, 39638-32-9, Bis(2-chloroisopropyl) ether;

~~(kkk)~~ (nnn) U024, ~~Bis(2-chloroethoxy) methane~~ 111-91-1, Bis(2-chloromethoxy) ethane;

~~(lll) U027, Bis(2-chloroisopropyl) ether;~~

~~(mmm) U244, Bis(dimethylthiocarbamoyl) disulfide;~~

~~(nnn)~~ (ooo) U028, 117-81-7, Bis(2-ethylhexyl) phthalate;

~~(ooo) U246, Bromine cyanide;~~

~~(ppp)~~ (ppp) U225, 75-25-2, Bromoform;

~~(qqq)~~ (qqq) U030, 101-55-3, 4-Bromophenyl phenyl ether;

~~(rrr)~~ (rrr) U128, 87-68-3, 1,3-Butadiene, 1,1,2,3,4,4-hexachloro-;

~~(sss)~~ (sss) U172, 924-16-3, 1-Butanamine, N-butyl-N-nitroso-;

~~(ttt) U035, Butanoic acid, 4-[bis(2-chloroethyl) amino] benzene-;~~

~~(uuu)~~ (ttt) U031, 71-36-3, 1-Butanol: (I);

~~(vvv)~~ (uuu) U159, 78-93-3, 2-Butanone: (I,T);

~~(www)~~ (vvv) U160, 1338-23-4, 2-Butanone peroxide: (R,T);

~~(xxx)~~ (www) U053, 4170-30-3, 2-Butenal;

~~(yyy)~~ (xxx) U074, 764-41-0, 2-Butene, 1,4-dichloro-: (I,T); ~~and~~

(yyy) U143, 303-34-4, 2-Butenoic acid, 2-methyl-, 7-[(2,3-dihydroxy-2-(1-methoxyethyl)-3-methyl-1-oxobutoxy) methyl]-2,3,5,7a-tetrahydro-1-pyrrolizin-1-yl ester, [1S-[1alpha(Z),7(2S,3R), 7aalpha]]-; and

(zzz) U031, 71-36-3, n-Butyl alcohol: (I).

(3) Hazardous wastes from commercial chemical compounds beginning with the letter C:

(a) U136, 75-60-5, Cacodylic acid;

(b) U032, 13765-19-0, Calcium chromate;

(c) U238, 51-79-6, Carbamic acid, ethyl ester;

(d) U178, 615-53-2, Carbamic acid, methylnitroso-, ethyl ester;

(e) ~~U176, Carbamide, N-ethyl-N-nitroso-;~~

~~(f) U177, Carbamide, N-methyl-N-nitroso-;~~

~~(g) U219, Carbamide, thio-;~~

~~(h)~~ U097, ~~Carbamoyl~~ 79-44-7, Carbamic chloride, dimethyl-;

(f) U114, 111-54-6, Carbamodithioic acid, 1,2-ethanediylbis-, salts and esters;

(g) U062, 2303-16-4, Carbamothioic acid, bis(1-methylethyl)-S-(2,3-dichloro-2-propenyl) ester;

~~(i)~~ (h) U215, 6533-73-9, Carbonic acid, ~~dithallium(I)~~ dithallium (1+) salt;

(i) U033, 353-50-4, Carbonic difluoride;

(j) U156, 79-22-1, Carbonochloridic acid, methyl ester: (I,T);

(k) U033, 353-50-4, Carbon oxyfluoride: (R,T);

(l) U211, 56-23-5, Carbon tetrachloride;

(m) ~~U033, Carbonyl fluoride: (R,T);~~

~~(n)~~ U034, 75-87-6, Chloral;

~~(o)~~ (n) U035, 305-03-3, Chlorambucil;

~~(p)~~ (o) U036, 12789-03-6, Chlordane~~, technical~~;

~~(q)~~ (p) U026, 494-03-1, Chlornaphazine;

~~(r)~~ (q) U037, 108-90-7, Chlorobenzene;

~~(s)~~ (r) U039, ~~4-Chloro-m-cresol~~ 59-50-7, p-Chloro-m-cresol;

~~(t)~~ (s) U041, 106-89-8, 1-Chloro-2,3-epoxypropane;

~~(u)~~ (t) U042, 110-75-8, 2-Chloroethyl vinyl ether;

~~(v)~~ (u) U044, 67-66-3, Chloroform;

~~(w)~~ (v) U046, 107-30-2, Chloromethyl methyl ether;

~~(x)~~ (w) U047, 91-58-7, beta-Chloronaphthalene;

~~(y)~~ (x) U048, 95-57-8, o-Chlorophenol;

~~(z)~~ (y) U049, 3165-93-3, 4-Chloro-o-toluidine, hydrochloride;

~~(aa)~~ (z) U032, 13765-19-0, Chromic acid, calcium salt;

~~(bb)~~ (aa) U050, 218-01-9, Chrysene;

~~(cc)~~ (bb) U051, 8021-39-4, Creosote;

~~(dd)~~ (cc) U052, 1319-77-3, Cresols (Cresylic acid);

~~(ee) U052, Cresylic acid;~~

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~~(ff)~~ (dd) U053, 4170-30-3, Crotonaldehyde;

~~(gg)~~ (ee) U055, 98-82-8, Cumene: (I);

~~(hh)~~ (ff) U246, 506-68-3, Cyanogen bromide;

~~(ii)~~ (gg) U197, ~~1,4 Cyclohexadienedione~~ 106-51-4, 2,5-Cyclohexadiene-1,4-dione;

~~(jj)~~ (hh) U056, 110-82-7, Cyclohexane: (I);

~~(kk)~~ (ii) U057, 108-94-1, Cyclohexanone: (I);

~~(ll)~~ (jj) U130, 77-47-4, 1,3-Cyclopentadiene, 1,2,3,4,5,5-hexachloro-; and

~~(mm)~~ (kk) U058, 50-18-0, Cyclophosphamide.

(4) Hazardous wastes from commercial chemical products beginning with the letter D:

(a) U240, 94-75-7, 2,4-D, salts and esters;

(b) U059, 20830-81-3, Daunomycin;

(c) U060, 72-54-8, DDD~~, 1,1 (2,2 dichloroethylidene) bis 4 chlorobenzene~~;

(d) U061, 50-29-3, DDT~~, 1,1' (2,2,2 trichloroethylidene) bis 4 chlorobenzene~~;

(e) ~~U142, Decachlorooctahydro 1,3,4 metheno 2H cyclobuta[c,d] pentalen 2 one;~~

~~(f)~~ U062, 2303-16-4, Diallate;

~~(g) U133, Diamine: (R,T);~~

~~(h) U221, Diaminotoluene;~~

~~(i)~~ (f) U063, 53-70-3, Dibenz[a,h]anthracene;

~~(j) U063, 1,2:5,6 Dibenzanthracene;~~

~~(k) U064, 1,2:7,8 Dibenzopyrene;~~

~~(l)~~ (g) U064, ~~Dibenz[a,i]pyrene~~ 189-55-9, Dibenzo[a,i]pyrene;

~~(m)~~ (h) U066, 96-12-8, 1,2-Dibromo-3-chloropropane;

~~(n)~~ (i) U069, 84-74-2, Dibutyl phthalate;

~~(o) U062, S (2,3 Dichloroallyl) diisopropylthiocarbamate;~~

~~(p)~~ (j) U070, 95-50-1, o-Dichlorobenzene;

~~(q)~~ (k) U071, 541-73-1, m-Dichlorobenzene;

~~(r)~~ (l) U072, 106-46-7, p-Dichlorobenzene;

~~(s)~~ (m) U073, 91-94-1, 3,3'-Dichlorobenzidine;

~~(t)~~ (n) U074, 764-41-0, 1,4-Dichloro-2-butene: (I,T);

~~(u)~~ (o) U075, 75-71-8, Dichlorodifluoromethane;

~~(v) U192, 3,5 Dichloro N (1,1 dimethyl 2 propynyl) benzamide;~~

~~(w) U060, Dichloro diphenyl dichloroethane;~~

~~(x) U061, Dichloro diphenyl trichloroethane;~~

~~(y)~~ (p) U078, 75-35-4, 1,1-Dichloroethylene;

~~(z)~~ (q) U079, 156-60-5, 1,2-Dichloroethylene;

~~(aa)~~ (r) U025, 111-44-1, Dichloroethyl ether;

~~(bb)~~ (s) U081, 120-83-2, 2,4-Dichlorophenol;

~~(cc)~~ (t) U082, 87-65-0, 2,6-Dichlorophenol;

~~(dd)~~ (u) U240, 94-75-7, 2,4-Dichlorophenoxyacetic acid, salts and esters;

~~(ee)~~ (v) U083, 78-87-5, 1,2-Dichloropropane;

~~(ff)~~ (w) U084, 542-75-6, 1,3-Dichloropropene;

~~(gg)~~ (x) U085, 1464-53-5, 1,2:3,4-Diepoxybutane: (I,T);

~~(hh)~~ (y) U108, ~~1,4 Diethylene dioxide~~ 123-91-1, 1,4-Diethyleneoxide;

~~(ii)~~ (z) U086, 1615-80-1, N,N-Diethylhydrazine;

~~(jj)~~ (aa) U087, 3288-58-2, O,O-Diethyl-S-methyl-dithiophosphate;

~~(kk)~~ (bb) U088, 84-66-2, Diethyl phthalate;

~~(ll)~~ (cc) U089, 56-53-1, Diethylstilbestrol;

~~(mm) U148, 1,2 Dihydro 3,6 pyridazinedione;~~

~~(nn)~~ (dd) U090, 94-58-6, Dihydrosafrole;

~~(oo)~~ (ee) U091, 119-90-4, 3,3'-Dimethoxybenzidine;

~~(pp)~~ (ff) U092, 124-40-3, Dimethylamine: (I);

~~(qq)~~ (gg) U093, 60-11-7, Dimethylaminoazobenzene;

~~(rr)~~ (hh) U094, 57-97-6, 7,12-Dimethylbenz[a]anthracene;

~~(ss)~~ (ii) U095, 119-93-7, 3,3'-Dimethylbenzidine;

~~(tt)~~ (jj) U096, 80-15-9, alpha,alpha-Dimethylbenzylhydroperoxide: (R);

~~(uu)~~ (kk) U097, 79-44-7, Dimethylcarbamoyl chloride;

~~(vv)~~ (ll) U098, 57-14-7, 1,1-Dimethylhydrazine;

~~(ww)~~ (mm) U099, 540-73-8, 1,2-Dimethylhydrazine;

~~(xx)~~ (nn) U101, 105-67-9, 2,4-Dimethylphenol;

~~(yy)~~ (oo) U102, 131-11-3, Dimethyl phthalate;

~~(zz)~~ (pp) U103, 77-78-1, Dimethyl sulfate;

~~(aaa)~~ (qq) U105, 121-14-2, 2,4-Dinitrotoluene;

~~(bbb)~~ (rr) U106, 606-20-2, 2,6-Dinitrotoluene;

~~(ccc)~~ (ss) U107, 117-84-0, Di-n-octyl phthalate;

~~(ddd)~~ (tt) U108, 123-91-1, 1,4-Dioxane;

~~(eee)~~ (uu) U109, 122-66-7, 1,2-Diphenylhydrazine;

~~(fff)~~ (vv) U110, 142-84-7, Dipropylamine: (I); and

~~(ggg)~~ (ww) U111, 621-64-7, Di-n-propylnitrosamine.

(5) Hazardous wastes from commercial chemical products beginning with the letter E:

(a) U001, 75-07-0, Ethanal: (I);

(b) U174, 55-18-5, Ethanamine, N-ethyl-N-nitroso-;

(c) U155, 91-80-5, 1,2-Ethanediamine, N,N-dimethyl-N'-2-pyridinyl-N'-(2-thienylmethyl)-;

(d) U067, 106-93-4, Ethane, 1,2-dibromo-;

~~(d)~~ (e) U076, 75-34-3, Ethane, 1,1-dichloro-;

~~(e)~~ (f) U077, 107-06-2, Ethane, 1,2-dichloro-;

~~(f) U114, 1,2 Ethanediylbiscarbamodithioic acid;~~

(g) U131, 67-72-1, Ethane, ~~1,1,1,2,2,2 hexachloro-~~ hexachloro-;

(h) U024, 111-91-1, Ethane, 1,1'- [methylenebis(oxy)]bis[2-chloro]-;

(i) ~~U003, Ethanenitrile: (I,T);~~

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~~(j)~~ U117, 60-29-7, Ethane, 1,1'-oxybis-: (I);

~~(k)~~ (j) U025, 111-44-4, Ethane, 1,1'-oxybis[2-chloro]-;

~~(l)~~ (k) U184, 76-01-7, Ethane, pentachloro-;

~~(m)~~ (l) U208, 630-20-6, Ethane, 1,1,1,2-tetrachloro-;

~~(n)~~ (m) U209, 79-34-5, Ethane, 1,1,2,2-tetrachloro-;

~~(o)~~ (n) U218, 62-55-5, Ethanethioamide;

~~(p)~~ (o) U227, ~~Ethane~~ 110-80-5, Ethanol, ~~1,1,2-trichloro-~~ 2-ethoxy-;

~~(q) U247, Ethane, 1,1,1-trichloro-2,2-bis(p-methoxyphenyl)~~ (p) U359, 79-00-5, Ethane, 1,1,2-trichloro-;

~~(r)~~ (q) U173, 1116-54-7, Ethanol, 2,2'-(nitrosoimino)bis-;

(r) U004, 98-86-2, Ethanone, 1-phenyl-;

(s) U043, 75-01-4, Ethene, chloro-;

~~(s)~~ (t) U042, 110-75-8, Ethene, (2-chloroethoxy)-;

~~(t)~~ (u) U078, 75-35-4, Ethene, 1,1-dichloro-;

~~(u)~~ (v) U079, 156-60-5, Ethene, ~~trans-1,2-dichloro-~~ 1,2-dichloro-,(E)-;

~~(v)~~ (w) U210, 127-18-4, Ethene, ~~1,1,2,2-tetrachloro-~~ tetrachloro;

~~(w) U173, Ethanol, 2,2'-(nitrosoimino)bis-;~~

~~(x) U004, Ethanone, 1-phenyl-;~~

~~(y) U006, Ethanoyl chloride: (C,R,T);~~

~~(z) U359, 2-Ethoxyethanol~~ (x) U228, 79-01-6, Ethene, trichloro;

~~(aa)~~ (y) U112, 141-78-6, Ethyl acetate: (I);

~~(bb)~~ (z) U113, 140-88-5, Ethyl acrylate: (I);

~~(cc)~~ (aa) U238, 51-79-6, Ethyl ~~carbamate(urethan)~~ carbamate;

~~(dd)~~ (bb) U038, 510-15-6, Ethyl 4,4'-dichlorobenzilate;

~~(ee)~~ (cc) U114, ~~Ethylenebis(dithiocarbamic acid)~~ 111-54-6, Ethylenebisdithiocarbamic acid, salts and esters;

~~(ff)~~ (dd) U067, 106-93-4, Ethylene dibromide;

~~(gg)~~ (ee) U077, 107-06-2, Ethylene dichloride;

~~(hh)~~ (ff) U359, 110-80-5, Ethylene glycol monoethyl ether;

~~(ii)~~ (gg) U115, 75-21-8, Ethylene oxide: (I,T);

~~(jj)~~ (hh) U116, 96-45-7, Ethylene thiourea;

~~(kk)~~ (ii) U117, 60-29-7, Ethyl ether: (I);

~~(ll)~~ (jj) U076, 75-34-3, Ethylidene dichloride;

~~(mm)~~ (kk) U118, 97-63-2, Ethyl methacrylate; and

~~(nn)~~ (ll) U119, 62-50-0, Ethylmethanesulfonate.

(6) Hazardous wastes from commercial chemical products beginning with the letter F:

(a) ~~U139, Ferric dextran:~~

~~(b)~~ U120, 206-44-0, Fluoranthene;

~~(c)~~ (b) U122, 50-00-0, Formaldehyde;

~~(d)~~ (c) U123, 64-18-6, Formic acid: (C,T);

~~(e)~~ (d) U124, 110-00-9, Furan: (I);

~~(f)~~ (e) U125, 98-01-1, 2-Furancarboxaldehyde: (I);

~~(g)~~ (f) U147, 108-31-6, 2,5-Furandione;

~~(h)~~ (g) U213, 109-99-9, Furan, tetrahydro-: (I);

~~(i)~~ (h) U125, 98-01-1, Furfural: (I); and

~~(j)~~ (i) U124, 110-00-9, Furfuran: (I).

(7) Hazardous wastes from commercial chemical products beginning with the letter G:

(a) U206, 18883-66-4, D-Glucopyranose, 2-deoxy-2(3-methyl-3-nitrosoureido)-;

(b) U126, 765-34-4, Glycidylaldehyde; and

(c) U163, 70-25-7, Guanidine, ~~N-nitroso-N-methyl-N'-nitro-~~ N-methyl-N'-nitro-N-nitroso-.

(8) Hazardous wastes from commercial chemical products beginning with the letter H:

(a) U127, 118-74-1, Hexachlorobenzene;

(b) U128, 87-68-3, Hexachlorobutadiene;

(c) U129, 58-88-9, Hexachlorocyclohexane (gamma isomer);

(d) U130, 77-47-4, Hexachlorocyclopentadiene;

(e) U131, 67-72-1, Hexachloroethane;

(f) U132, 70-30-4, Hexachlorophene;

(g) U243, 1888-71-7, Hexachloropropene;

(h) U133, 302-01-2, Hydrazine: (R,T);

(i) U086, 1615-80-1, Hydrazine, 1,2-diethyl-;

(j) U098, 57-14-7, Hydrazine, 1,1-dimethyl-;

(k) U099, 540-73-8, Hydrazine, 1,2-dimethyl-;

(l) U109, 122-66-7, Hydrazine, 1,2-diphenyl-;

(m) U134, 7664-39-3, Hydrofluoric acid: (C,T);

(n) U134, 7664-39-3, Hydrogen fluoride: (C,T);

(o) U135, 7783-06-4, Hydrogen sulfide;

(p) U096, 80-15-9, Hydroperoxide, 1-methyl-1-phenylethyl-: (R); and

(q) U136, 75-60-5, Hydroxydimethylarsine oxide.

(9) Hazardous wastes from commercial chemical products beginning with the letter I:

(a) U116, 96-45-7, 2-Imidazolidinethione;

(b) U137, 193-39-5, Indeno[1,2,3cd]pyrene;

(c) U139, 9004-66-4, Iron dextran;

(d) U190, 85-44-9, 1,3-Isobenzofurandione;

(e) U140, 78-83-1, Isobutyl alcohol: (I,T); and

~~(e)~~ (f) U141, 120-58-1, Isosafrole.

(10) Hazardous wastes from commercial chemical products beginning with the letter K: U142, 143-50-0, Kepone.

(11) Hazardous wastes from commercial chemical products beginning with the letter L:

(a) U143, 303-34-4, Lasiocarpine;

(b) U144, 301-04-2, Lead acetate;

(c) U146, 1335-32-6, Lead, bis(acetato-O)tetrahydoxytri-;

(d) U145, 7446-27-7, Lead phosphate;

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~~(d)~~ (e) U146, 1335-32-6, Lead subacetate; and

~~(e)~~ (f) U129, 58-89-9, Lindane.

(12) Hazardous wastes from commercial chemical products beginning with the letter M:

(a) U147, 108-31-6, Maleic anhydride;

(b) U148, 123-33-1, Maleic hydrazide;

(c) U149, 109-77-3, Malononitrile;

(d) U150, 148-82-3, Melphalan;

(e) U151, 7439-97-6, Mercury;

(f) U152, 126-98-7, Methacrylonitrile: (I,T);

(g) U092, 124-40-3, Methanamine, N-methyl-: (I);

(h) U029, 74-83-9, Methane, bromo-;

(i) U045, 74-87-3, Methane, chloro-: (I,T);

(j) U046, 107-30-2, Methane, chloromethoxy-;

(k) U068, 74-95-3, Methane, dibromo-;

(l) U080, 75-09-2, Methane, dichloro-;

(m) U075, 75-71-8, Methane, dichlorodifluoro-;

(n) U138, 74-88-4, Methane, iodo-;

(o) U119, 62-50-0, Methanesulfonic acid, ethyl ester;

(p) U211, 56-23-5, Methane, tetrachloro-;

(q) ~~U121, Methane, trichlorofluoro-;~~

~~(r)~~ U153, 74-93-1, Methanethiol: (I,T);

~~(s)~~ (r) U225, 75-25-2, Methane, tribromo-;

~~(t)~~ (s) U044, 67-66-3, Methane, trichloro-;

~~(u) U121, Methane, trichlorofluoro-;~~

(t) U121, 75-69-4, Methane, trichlorofluoro-;

~~(v)~~ (u) U123, 64-18-6, Methanoic acid: (C,T);

~~(w) U036, 4,7 Methanoindan, 1,2,4,5,6,7,8,8- octachloro-3a,4,7,7a-tetrahydro-;~~

~~(x)~~ (v) U154, 67-56-1, Methanol: (I);

~~(y)~~ (w) U155, 91-80-5, Methapyrilene;

(x) U142, 143-50-0, 1,3,4-Metheno- 2H-cyclobuta[cd]pentalen-2-one,1,1a,3,3a,4,5,5,5a,5b, 6-decachlorooctahydro-

~~(z)~~ (y) U247, 72-43-5, Methoxychlor;

~~(aa)~~ (z) U154, 67-56-1, Methyl alcohol: (I);

~~(bb)~~ (aa) U029, 74-83-9, Methyl bromide;

~~(cc)~~ (bb) U186, 504-60-9, 1-Methylbutadiene: (I);

~~(dd)~~ (cc) U045, 74-87-3, Methyl chloride: (I,T);

~~(ee)~~ (dd) U156, 79-22-1, Methyl chlorocarbonate: (I,T);

~~(ff)~~ (ee) U226, 71-55-6, Methyl chloroform;

~~(gg)~~ (ff) U157, 56-49-5, 3-Methylcholanthrene;

~~(hh)~~ (gg) U158, 101-14-4, 4,4'-Methylenebis (2-chloroaniline);

~~(ii) U132, 2,2' Methylenebis (3,4,6-trichlorophenol);~~

~~(jj)~~ (hh) U068, 74-95-3, Methylene bromide;

~~(kk)~~ (ii) U080, 75-09-2, Methylene chloride;

~~(ll) U122, Methylene oxide;~~

~~(mm)~~ (jj) U159, 78-93-3, Methyl ethyl ketone (MEK): (I,T);

~~(nn)~~ (kk) U160, 1338-23-4, Methyl ethyl ketone peroxide: (R,T);

~~(oo)~~ (ll) U138, 74-88-4, Methyl iodide;

~~(pp)~~ (mm) U161, 108-10-1, Methyl isobutyl ketone: (I);

~~(qq)~~ (nn) U162, 80-62-6, Methyl methacrylate: (I,T);

~~(rr)~~ (oo) U163, 70-25-7, N-Methyl-N' ~~-nitro-N-nitrosoguanidine~~ -nitro-N-nitrosoguanidine;

~~(ss)~~ (pp) U161, 108-10-1, 4-Methyl-2-pentanone: (I);

~~(tt)~~ (qq) U164, 56-04-2, Methylthiouracil; and

~~(uu)~~ (rr) U010, 50-07-7, Mitomycin C.

(13) Hazardous wastes from commercial chemical compounds beginning with the letter N:

(a) U059, 20830-81-3, 5,12-Naphthacenedione, ~~(8S-cis)-8-acetyl-10-[(3-amino-2,3,6-trideoxy-alpha-L-lyxo-hexopyranosyl)oxyl]-7,8,9,10-~~ (8S-cis)-8-acetyl-10- [(3-amino-2,3,6-trideoxy)-alpha-L-lyxo-hexopyranosyl)oxy] -7,8,9,10-tetrahydro-6,8,11-trihydroxy-1-methoxy-;

(b) U165, 91-20-3, Naphthalene;

(c) U047, 91-58-7, Naphthalene, 2-chloro-;

(d) U166, 130-15-4, 1,4-Naphthalenedione;

(e) U236, 72-57-1, 2,7-Naphthalenedisulfonic acid, 3,3'-[(3,3'dimethyl-(1,1'biphenyl)-4,4'-diyl)]-bis (azo)bis(5-amino-4-hydroxy)-,tetrasodium salt;

(f) U166, 130-15-4, 1,4-Naphthoquinone;

(g) ~~U167, 1-Naphthylamine;~~

~~(h) U168, 2-Naphthylamine;~~

~~(i)~~ U167, 134-32-7, alpha-Naphthylamine;

~~(j)~~ (h) U168, 91-59-8, beta-Naphthylamine;

~~(k)~~ (i) U026, ~~2-Naphthylamine~~ 494-03-1, 2-Naphthylamine, ~~N,N-bis(2-chloroethyl)-~~ N,N'-bis(2-chloromethyl) -;

(j) U167, 134-32-7, 1-Napthylenamine;

(k) U168, 91-59-8, 2-Naphthylenamine;

(l) U217, 10102-45-1, Nitric acid, thellium(It) salt;

(m) U169, 98-95-3, Nitrobenzene: (I,T);

~~(m)~~ (n) U170, 100-02-7, p-Nitrophenol;

~~(n)~~ (o) U171, 79-46-9, 2-Nitropropane: (I ,T);

~~(o)~~ (p) U172, 924-16-3, N-Nitrosodi-n-butylamine;

~~(p)~~ (q) U173, 1116-54-7, N-Nitrosodiethanolamine;

~~(q)~~ (r) U174, 55-18-5, N-Nitrosodiethylamine;

~~(r) U111, N-Nitrosodi-N-propylamine;~~

(s) U176, 759-73-9, N-Nitroso-N-ethylurea;

(t) U177, 684-93-5, N-Nitroso-N-methylurea;

(u) U178, 615-53-2, N-Nitroso-N-methylurethane;

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(v) U179, 100-75-4, N-Nitrosopiperidine;

(w) U180, 930-55-2, N-Nitrosopyrrolidine; and

(x) U181, 99-55-8, 5-Nitro-o-toluidine.

(14) Hazardous wastes from commercial chemical products beginning with the letter O:

(a) U193, 1120-71-4, 1,2-Oxathiolane, 2,2-dioxide;

(b) U058, ~~2H-1,3,2-Oxazaphosphorine, 2 [bis(2-chloro-ethyl)amino]-tetrahydro-,~~ 50-18-0, 2H-1,3,2-Oxazaphosphorin-2-amine,N,N-bis (2-chloroethyl)tetrahydro-, 2-oxide;

(c) U115, 75-21-8, Oxirane: (I,T); ~~and~~

(d) U126, 765-34-4, Oxiranecarboxyaldehyde; and

(e) U041, 106-89-8, Oxirane, ~~2-(chloromethyl)-~~ (chloromethyl)-.

(15) Hazardous wastes from commercial chemical products beginning with the letter P:

(a) U182, 123-63-7, Paraldehyde;

(b) U183, 608-93-5, Pentachlorobenzene;

(c) U184, 76-01-7, Pentachloroethane;

(d) U185, 82-68-8, Pentachloronitrobenzene (PCNB);

(e) U242, 87-86-5, Pentachlorophenol;

(f) U186, 504-60-9, 1,3-Pentadiene: (I);

~~(f)~~ (g) U187, 62-44-2, Phenacetin;

~~(g)~~ (h) U188, 108-95-2, Phenol;

~~(h)~~ (i) U048, 95-57-8, Phenol, 2-chloro-;

~~(i)~~ (j) U039, 59-50-7, Phenol, 4-chloro-3-methyl-;

~~(j)~~ (k) U081, 120-83-2, Phenol, 2,4-dichloro-;

~~(k)~~ (l) U082, 87-65-0, Phenol, 2,6-dichloro-;

(m) U089, 56-53-1, Phenol, 4,4'-(1,2-diethyl-1,2-ethenediyl)bis-,(E)-;

~~(l)~~ (n) U101, 105-67-9, Phenol, 2,4-dimethyl-;

(o) U052, 1319-77-3, Phenol, methyl-;

(p) U132, 70-30-4, Phenol,2,2'-methylenebis[3,4,6-trichloro]-;

~~(m)~~ (q) U170, 100-02-7, Phenol, 4-nitro-;

~~(n) U137, 1,10-(1,2-Phenylene)pyrene;~~

(r) U242, 87-86-5, Phenol, pentachloro-;

(s) U212, 58-90-2, Phenol, 2,3,4,6-tetrachloro-;

(t) U230, 95-94-4, Phenol, 2,4,5-trichloro-;

(u) U231, 88-06-2, Phenol, 2,4,6-trichloro-;

(v) U150, 148-82-3, L-Phenylalanine, 4-[bis(2-chloroethyl)amino]-;

~~(o)~~ (w) U145, 7446-27-7, Phosphoric acid, lead salt;

~~(p)~~ (x) U087, 3288-58-2, Phosphorodithioic acid, O,O-diethyl-,S-methyl ester;

~~(q)~~ (y) U189, ~~Phosphorus~~ 108-95-2, Phosphorous sulfide: (R);

~~(r)~~ (z) U190, 85-44-9, Phthalic anhydride;

~~(s)~~ (aa) U191, 109-06-8, 2-Picoline;

(bb) U179, 100-75-4, Piperdine, 1-nitroso-;

~~(t)~~ (cc) U192, 23950-58-5, Pronamide;

~~(u)~~ (dd) U194, 107-10-8, 1-Propanamine: (I,T);

(ee) U111, 621-64-7, 1-Propanamine,N-nitroso-N-propyl-;

~~(v)~~ (ff) U110, 142-84-7, 1-Propanamine, N-propyl-: (I);

~~(w)~~ (gg) U066, 96-12-8, Propane, 1,2-dibromo-3-chloro-;

~~(x)~~ (hh) U149, 109-77-3, Propanedinitrile;

~~(y)~~ (ii) U171, 79-46-9, Propane, 2-nitro-: (I,T);

~~(z)~~ (jj) U027, 39638-32-9, Propane, 2,2'- oxybis[2-chloro]-;

~~(aa)~~ (kk) U193, 1120-71-4, 1,3-Propane sultone;

~~(bb)~~ (ll) U235, 126-72-7, 1-Propanol, 2,3-dibromo-, phosphate (3:1);

~~(cc) U126, 1-Propanol, 2,3-epoxy-;~~

~~(dd)~~ (mm) U140, 78-83-1, 1-Propanol, 2-methyl-: (I,T);

~~(ee)~~ (nn) U002, 67-64-1, 2-Propanone: (I);

(oo) U084, 542-75-6, 1-Propane, 1,3-dichloro-;

(pp) U152, 126-98-7, 2-Propanenitrile,2-methyl-: (I,T);

~~(ff)~~ (qq) U007, 79-06-1, 2-Propenamide;

~~(gg) U084, Propene, 1,3-dichloro-;~~

~~(hh)~~ (rr) U243, 1888-71-7, 1-Propene, ~~1,1,2,3,3,3-hexachloro-~~ hexachloro-;

~~(ii)~~ (ss) U009, 107-13-1, 2-Propenenitrile;

~~(jj) U152, 2-Propenenitrile, 2-methyl-: (I,T);~~

~~(kk)~~ (tt) U008, 79-10-7, 2-Propenoic acid: (I);

~~(ll)~~ (uu) U113, 140-88-5, 2-Propenoic acid, ethyl ester: (I);

~~(mm)~~ (vv) U118, 97-63-2, 2-Propenoic acid, 2-methyl-, ethyl ester;

~~(nn)~~ (ww) U162, 80-66-2, 2-Propenoic acid, 2-methyl-, methyl ester,: (I,T);

(xx) U233, 93-72-1, Propionic acid, 2-(2,4,5-trichlorophenoxy)-;

~~(oo)~~ (yy) U194, 107-10-8, n-Propylamine: (I,T);

~~(pp)~~ (zz) U083, 78-87-5, Propylene dichloride;

(aaa) U148, 123-33-1, 3,6-Pyridazinedione, 1,2-dihydro;

~~(qq)~~ (bbb) U196, 110-86-1, Pyridine;

~~(rr) U155, Pyridine, 2-[(2-dimethylamino)ethyl]-2-thenylamino-;~~

~~(ss) U179, Pyridine, hexahydro-N-nitroso-;~~

~~(tt)~~ (ccc) U191, 109-06-8, Pyridine, 2-methyl-;

(ddd) U237, 66-75-1, 2,4(1H,3H)-Pyrimidinedione, 5-[bis(2-chloro-ethyl)amino]-;

~~(uu)~~ (eee) U164, 56-04-2, 4-(1H)-Pyrimidinone, 2,3-dihydro-6-methyl-2-thioxo-; and

~~(vv)~~ (fff) U180, ~~Pyrrole, tetrahydro-N-nitroso-~~ 930-55-2, Pyrrolidine, 1-nitroso-.

(16) Hazardous wastes from commercial chemical products beginning with the letter R:

(a) U200, 50-55-5, Reserpine; and

(b) U201, 108-46-3, Resorcinol.

(17) Hazardous wastes from commercial chemical products beginning with the letter S:

(a) U202, 81-07-2, Saccharin and salts;

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(b) U203, 94-59-7, Safrole;

(c) U204, 7783-00-8, Selenious acid;

(d) U204, 7783-00-8, Selenium dioxide;

(e) U205, 7446-34-6, Selenium ~~disulfide~~ sulfide: (R,T);

(f) U015, 115-02-6, L-Serine, diazoacetate (ester);

(g) ~~U089, 4,4' Stilbenediol, alpha,alpha' diethyl~~ U233, 93-72-1, Silvex;

(h) U206, 18883-66-4, Streptozotocin;

(i) ~~U135, Sulfur hydride;~~

~~(j)~~ U103, 77-78-1, Sulfuric acid, dimethyl ester; and

~~(k)~~ (j) U189, 1314-80-3, Sulfur phosphide: (R)~~; and~~

~~(l) U205, Sulfur selenide: (R,T)~~.

(18) Hazardous wastes from commercial chemical products beginning with the letter T:

(a) U232, 93-76-5, 2,4,5-T;

(b) U207, 95-94-3, 1,2,4,5-Tetrachlorobenzene;

~~(b)~~ (c) U208, 630-20-6, 1,1,1,2-Tetrachloroethane;

~~(c)~~ (d) U209, 79-34-5, 1,1,2,2-Tetrachloroethane;

~~(d)~~ (e) U210, 127-18-4, Tetrachloroethylene;

(f) U212, 58-90-2, 2,3,4,6-Tetrachlorophenol;

~~(e)~~ (g) U213, 109-99-9, Tetrahydrofuran: (I);

~~(f)~~ (h) U214, 15843-14-8, Thallium(I) acetate;

~~(g)~~ (i) U215, 6533-73-9, Thallium(I) carbonate;

~~(h)~~ (j) U216, 7791-12-0, ~~Thallium(I)~~ Thallium chloride;

~~(i)~~ (k) U217, 10102-45-1, Thallium(I) nitrate;

~~(j)~~ (l) U218, 62-55-5, Thioacetamide;

~~(k)~~ (m) U153, 74-93-1, Thiomethanol: (I,T);

(n) U244, 137-26-8, Thioperoxydicarbonic diamide, tetramethyl-;

~~(l)~~ (o) U219, 62-56-6, Thiourea;

~~(m)~~ (p) U244, ~~Thiram~~ 137-26-8, Thiuram;

~~(n)~~ (q) U220, 108-88-3, Toluene;

~~(o)~~ (r) U221, 25376-45-8, Toluenediamine;

~~(p)~~ (s) U223, 26471-62-5, Toluene diisocyanate: (R,T);

~~(q)~~ (t) U328, 95-53-4, o-Toluidine;

~~(r)~~ (u) U353, 106-49-0, p-Toluidine;

~~(s)~~ (v) U222, 636-21-5, o-Toluidine hydrochloride;

~~(t)~~ (w) U011, 61-82-5, 1H-1,2,4-Triazol-3-amine;

~~(u)~~ (x) U226, 71-55-6, 1,1,1-Trichloroethane;

~~(v)~~ (y) U227, 79-00-5, 1,1,2-Trichloroethane;

~~(w) U228, Trichloroethene;~~

~~(x)~~ (z) U228, 79-01-6, Trichloroethylene;

~~(y)~~ (aa) U121, 75-69-4, Trichloromonofluoromethane;

(bb) U230, 95-95-4, 2,4,5-Trichlorophenol;

(cc) U231, 88-06-2, 2,4,6-Trichlorophenol;

~~(z)~~ (dd) U234, 99-35-4, sym-Trinitrobenzene: (R,T);

~~(aa)~~ (ee) U182, 123-63-7, 1,3,5-Trioxane, 2,4,6-trimethyl-;

~~(bb)~~ (ff) U235, 126-72-7, Tris (2,3-dibromopropyl) phosphate; and

~~(cc)~~ (gg) U236, 72-57-1, Trypan blue.

(19) Hazardous wastes from commercial chemical products beginning with the letter U:

(a) ~~U237, Uracil 5[bis(2-chloroethyl) amino] -; and~~

~~(b)~~ U237, 66-75-1, Uracil mustard;

(b) U176, 759-73-9, Urea, N-ethyl-N-nitroso-; and

(c) U177, 684-93-5, Urea, N-methyl-N-nitroso-.

(20) Hazardous wastes from commercial chemical products beginning with the letter V: U043, 75-01-4, Vinyl chloride.

(21) Hazardous wastes from commercial chemical products beginning with the letter W: U248, 81-81-2, Warfarin when present at concentrations of 0.3 percent or less.

(22) Hazardous wastes from commercial chemical products beginning with the letter X: U239, 1330-20-7, Xylene: (I).

(23) Hazardous wastes from commercial chemical products beginning with the letter Y: U200, 50-55-5, Yohimban-16-carboxylic acid, 11, 17-dimethoxy-18-[(3,4,5-trimethoxy benzoyl)oxy]-, methyl ester~~,~~.

(24) Hazardous wastes from commercial chemical products beginning with the letter Z: U249, 1314-84-7, Zinc phosphide when present at concentrations of 10 percent or less.

Subp. 5. [Unchanged.]

7045.0141 HAZARDOUS CONSTITUENTS.

Subpart 1. **Scope.** Hazardous constituents and their corresponding chemical abstracts numbers, if known, are listed in subparts 2 to 22.

Subp. 2. **"A" constituents.** Hazardous constituents beginning with the letter A are as follows:

A. Acetonitrile, 75-05-8;

B. Acetophenone, 98-86-2;

C. ~~3 (alpha-Acetonylbenzyl) 4 hydroxycoumarin and salts;~~

~~D.~~ 2-Acetylaminofluorene, 53-96-3;

~~E.~~ D. Acetyl chloride, 75-36-5;

~~F.~~ E. 1-Acetyl-2-thiourea, 591-08-2;

~~G.~~ F. Acrolein, 107-02-8;

~~H.~~ G. Acrylamide, 79-06-1;

~~I.~~ H. Acrylonitrile, 107-13-1;

~~J.~~ I. Aflatoxins, 1402-68-2;

J. Aldicarb, 116-06-3;

K. Aldrin, 309-00-2;

L. Allyl alcohol, 107-18-6;

M. Allyl chloride, 107-05-1;

N. Aluminum phosphide, 20859-73-8;

~~N.~~ O. 4-Aminobiphenyl, 92-67-1;

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~~O. 6-Amino-1,1a,2,8,8a,8b-hexahydro-8-(hydroxymethyl)-8a-methoxy-5-methylcarbamate azirino(2',3':3,4) pyrrolo(1,2-a)indole-4,7-dione, (ester), (Mitomycin C);~~

P. 5-(Aminomethyl)-3-isoxazolol, 2763-96-4;

Q. 4-Aminopyridine, 504-24-5;

R. Amitrole, 61-82-5;

S. Ammonium vanadate, 7803-55-6;

~~R.~~ T. Aniline, 62-53-3;

~~S.~~ U. Antimony and compounds not otherwise specified in this list, 7440-36-0;

~~T.~~ V. Aramite, 140-57-8;

~~U.~~ W. Arsenic and compounds not otherwise specified in this list, 7440-38-2;

~~V.~~ X. Arsenic acid, 7778-39-4;

~~W.~~ Y. Arsenic pentoxide, 1303-28-2;

~~X.~~ Z. Arsenic trioxide, 1327-53-3;

~~Y.~~ AA. Auramine, 492-80-8; and

~~Z.~~ BB. Azaserine, 115-02-6.

Subp. ~~2.~~ 3. **"B" constituents.** Hazardous constituents beginning with the letter B are as follows:

A. Barium and compounds not otherwise specified in this list, 7440-39-3;

B. Barium cyanide, 542-62-1;

C. Benz[c]acridine, 225-51-4;

D. Benz[a]anthracene, 56-55-3;

E. Benzal chloride, 98-87-3;

F. Benzene, 71-43-2;

~~F. Benzene, 2-amino-1-methyl (o-Toluidine);~~

G. ~~Benzene, 4-amino-1-methyl (p-Toluidine);~~

~~H.~~ Benzenearsonic acid, 98-05-5;

~~I. Benzene, dichloromethyl-;~~

~~J. Benzenethiol;~~

~~K.~~ H. Benzidine, 92-87-5;

~~L.~~ I. Benzo[b]fluoranthene, 205-99-2;

~~M.~~ J. Benzo[j]fluoranthene, 205-82-3;

~~N.~~ K. Benzo[a]pyrene, 50-32-8;

~~O.~~ L. p-Benzoquinone, 106-51-4;

~~P.~~ M. Benzotrichloride, 98-07-7;

~~Q.~~ N. Benzyl chloride, 100-44-7;

~~R.~~ O. Beryllium and compounds not otherwise specified in this list, 7440-41-7;

~~S. Bis(2-chloroethoxy)methane;~~

P. Bis(2-chloromethoxy)ethane, 111-91-1;

~~T.~~ Q. Bis(2-chloroethyl) ether, 111-44-4;

~~U. N,N-Bis(2-chloroethyl)-2-naphthylamine;~~

~~V.~~ R. Bis(2-chloroisopropyl) ether, 39638-32-9;

~~W.~~ S. Bis(chloromethyl) ether, 542-88-1;

~~X.~~ T. Bis(2-ethylhexyl) phthalate, 117-81-7;

~~Y.~~ U. Bromoacetone, 598-31-2;

~~Z.~~ V. ~~Bromomethane~~ Bromoform, 75-25-2;

~~AA.~~ W. 4-Bromophenyl phenyl ether, 101-55-3;

~~BB.~~ X. Brucine, 357-57-3; and

~~CC. 2-Butanone peroxide;~~

~~DD.~~ Y. Butyl benzyl phthalate~~;~~ ~~and~~

~~EE. 2-sec-Butyl-4,6-dinitrophenol (DNBP),~~ 85-68-7.

Subp. ~~3.~~ 4. **"C" constituents.** Hazardous constituents beginning with the letter C are as follows:

A. Cacodylic acid, 75-60-5;

B. Cadmium and compounds not otherwise specified in this list, 7440-43-9;

~~B.~~ C. Calcium chromate, 13765-19-0;

~~C.~~ D. Calcium cyanide, 592-01-8;

~~D.~~ E. Carbon disulfide, 75-15-0;

~~E.~~ F. Carbon oxyfluoride, 353-50-4;

G. Carbon tetrachloride, 56-23-5;

~~F.~~ H. Chloral, 75-87-6;

~~G.~~ I. Chlorambucil, 305-03-3;

~~H.~~ J. Chlordane (alpha and gamma isomers), 57-74-9;

~~I.~~ K. Chlorinated benzenes not otherwise specified in this list, ...;

~~J.~~ L. Chlorinated ethane not otherwise specified in this list, ...;

~~K.~~ M. Chlorinated fluorocarbons not otherwise specified in this list, ...;

~~L.~~ N. Chlorinated naphthalene not otherwise specified in this list, ...;

~~M.~~ O. Chlorinated phenol not otherwise specified in this list, ...;

P. Chlornaphazine, 494-03-1;

~~N.~~ Q. Chloroacetaldehyde, 107-20-0;

~~O.~~ R. Chloroalkyl ethers not otherwise specified in this list, ...;

~~P.~~ S. p-Chloroaniline, 106-47-8;

~~Q.~~ T. Chlorobenzene, 108-90-7;

~~R.~~ U. Chlorobenzilate, 510-15-6;

~~S. 2-Chloro-1,3-butadiene (chloroprene);~~

~~T.~~ V. p-Chloro-m-cresol, 59-50-7;

~~U. 1-Chloro-2,3-epoxybutane;~~

~~V.~~ W. 1-Chloro-2,3-epoxypropane, 106-89-8;

~~W.~~ X. 2-Chloroethyl vinyl ether, 110-75-8;

~~X.~~ Y. Chloroform, 67-66-3;

~~Y. Chloromethane;~~

Z. Chloromethyl methyl ether, 107-30-2;

AA. ~~2-Chloronaphthalene~~ beta-Chloronaphthalene, 91-58-7;

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BB. ~~2-Chlorophenol~~ o-Chlorophenol, 95-57-8;

CC. 1-(o-Chlorophenyl)thiourea, 5344-82-1;

DD. ~~3-Chloropropene (allyl chloride)~~ Chloroprene, 126-99-8;

EE. 3-Chloropropionitrile, 542-76-7;

FF. Chromium and compounds not otherwise specified in this list, 7440-47-3;

GG. Chrysene, 218-01-9;

HH. Citrus red No. 2, 6358-53-8;

II. Coal tars, 8005-45-2;

JJ. Copper cyanide, 544-92-3;

KK. Creosote, 8001-58-9;

LL. Cresols (Cresylic acid), 1319-77-3;

MM. Crotonaldehyde, 4170-30-3;

NN. Cyanides (soluble salts and complexes) not otherwise specified in this list, ...;

OO. Cyanogen, 460-19-5;

PP. Cyanogen bromide, 506-68-3;

QQ. Cyanogen chloride, 506-77-4;

RR. Cycasin, 14901-08-7;

SS. 2-Cyclohexyl-4,6-dinitrophenol, 131-89-5; and

TT. Cyclophosphamide, 50-18-0.

Subp. ~~4.~~ 5. **"D" constituents.** Hazardous constituents beginning with the letter D are as follows:

A. 2,4-D, salts and esters, 94-75-7;

B. Daunomycin, 20830-81-3;

~~B.~~ C. DDD ~~(1,1-(2,2-dichloroethylidene) bis- 4-chlorobenzene)~~, 72-54-8;

~~C.~~ D. DDE ~~(Ethylene, 1,1-dichloro-2,2-bis (4-chlorophenyl)-)~~, 72-55-9;

~~D.~~ E. DDT ~~(1,1'-(2,2,2-trichloroethylidene) bis- 4-chlorobenzene)~~, 50-29-3;

~~E.~~ F. Diallate, 2303-16-4;

~~F.~~ G. Dibenz[a,h]acridine, 226-36-8;

~~G.~~ H. Dibenz[a,j]acridine, 224-42-0;

~~H.~~ I. Dibenz[a,h]anthracene, 53-70-3;

~~I.~~ J. 7H-Dibenzo[c,g]carbazole, 194-59-2;

~~J.~~ K. Dibenzo[a,e]pyrene, 192-65-4;

~~K.~~ L. Dibenzo[a,h]pyrene, 189-64-0;

~~L.~~ M. Dibenzo[a,i]pyrene, 189-55-9;

~~M.~~ N. 1,2-Dibromo-3-chloropropane, 96-12-8;

~~N. 1,2-Dibromoethane;~~

O. ~~Dibromomethane;~~

~~P. Di-n-butyl phthalate~~ Dibutylphthalate, 84-74-2;

~~Q.~~ P. o-Dichlorobenzene, 95-50-1;

~~R.~~ Q. m-Dichlorobenzene, 541-73-1;

~~S.~~ R. p-Dichlorobenzene, 106-46-7;

~~T.~~ S. Dichlorobenzene not otherwise specified in this list, 25321-22-6;

~~U.~~ T. 3,3'-Dichlorobenzidine, 91-94-1;

~~V.~~ U. 1,4-Dichloro-2-butene, 764-41-0;

~~W.~~ V. Dichlorodifluoromethane, 75-71-8;

~~X. 1,1-Dichloroethane;~~

~~Y. 1,2-Dichloroethane;~~

~~Z.~~ W. ~~trans-1,2-Dichloroethene~~ 1,2-Dichloroethylene, 156-60-5;

~~AA.~~ X. Dichloroethylene not otherwise specified in this list, 25323-30-2;

~~BB.~~ Y. 1,1-Dichloroethylene, 75-35-4;

~~CC. Dichloromethane;~~

~~DD.~~ Z. 2,4-Dichlorophenol, 120-83-2;

~~EE.~~ AA. 2,6-Dichlorophenol, 87-65-0;

~~FF. 2,4-Dichlorophenoxyacetic acid, salts and esters (2,4-D);~~

~~GG.~~ BB. Dichlorophenylarsine, 696-28-6;

~~HH.~~ CC. Dichloropropane not otherwise specified in this list, 26638-19-7;

~~II. 1,2-Dichloropropane;~~

~~JJ.~~ DD. Dichloropropanol not otherwise specified in this list, 26545-73-3;

~~KK.~~ EE. Dichloropropene not otherwise specified in this list, 26952-23-8;

~~LL.~~ FF. 1,3-Dichloropropene, 542-75-6;

~~MM.~~ GG. Dieldrin, 60-57-1;

~~NN.~~ HH. 1,2:3,4-Diepoxybutane, 1464-53-5;

~~OO.~~ II. Diethylarsine, 692-42-2;

~~PP.~~ JJ. 1,4-Diethyleneoxide, 123-91-1;

KK. N,N'-Diethylhydrazine, 1615-80-1;

~~QQ.~~ LL. O,O-Diethyl S-methyl ~~ester of phosphorodithioic acid~~ dithiophosphate, 3288-58-2;

~~RR.~~ MM. ~~O,O-Diethylphosphoric acid, O-p-nitrophenyl ester~~ Diethyl-p-nitro phenyl phosphate, 311-45-5;

~~SS.~~ NN. Diethylphthalate, 84-66-2;

~~TT.~~ OO. ~~O,O-Diethyl O-(2-pyrazinyl)phosphorothioate~~ O,O-Diethyl O-pyrazinyl phosphorothioate, 297-97-2;

~~UU.~~ PP. ~~Diethylstilbestrol~~ Diethylstilbesterol, 56-53-1;

~~VV.~~ QQ. Dihydrosafrole, 94-58-6;

~~WW.~~ RR. 3,4-Dihydroxy-alpha-(methylamino)methyl benzyl alcohol, 329-65-7;

~~XX.~~ SS. Diisopropylfluorophosphate (DFP), 55-91-4;

~~YY.~~ TT. Dimethoate, 60-51-5;

~~ZZ.~~ UU. 3,3'-Dimethoxybenzidine, 119-90-4;

~~AAA.~~ VV. p-Dimethylaminoazobenzene, 60-11-7;

~~BBB.~~ WW. 7,12-Dimethylbenz[a]anthracene, 57-97-6;

~~CCC.~~ XX. 3,3'-Dimethylbenzidine, 119-93-7;

~~DDD.~~ YY. Dimethylcarbamoyl chloride, 79-44-7;

~~EEE.~~ ZZ. 1,1-Dimethylhydrazine, 57-14-7;

~~FFF.~~ AAA. 1,2-Dimethylhydrazine, 540-73-8;

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~~GGG. 3,3 Dimethyl 1 (methylthio) 2- butanone O [(methylamino) carbonyl oxime];~~

~~HHH.~~ BBB. alpha, alpha-Dimethylphenethylamine, 122-09-8;

~~III.~~ CCC. 2,4-Dimethylphenol, 105-67-9;

~~JJJ.~~ DDD. Dimethylphthalate, 131-11-3;

~~KKK.~~ EEE. Dimethyl sulfate, 77-78-1;

~~LLL.~~ FFF. Dinitrobenzene not otherwise specified in this list, 25154-54-5;

~~MMM.~~ GGG. 4,6-Dinitro-o- cresol and salts, 534-52-1;

~~NNN.~~ HHH. 2,4-Dinitrophenol, 51-28-5;

~~OOO.~~ III. 2,4-Dinitrotoluene, 121-14-2;

~~PPP.~~ JJJ. 2,6-Dinitro toluene, 606-20-2;

KKK. Dinoseb, 88-85-7;

~~QQQ.~~ LLL. Di-n-octylphthalate, 117-84-0;

~~RRR. 1,4 Dioxane;~~

~~SSS.~~ MMM. Diphenylamine, 122-39-4;

~~TTT.~~ NNN. 1,2-Diphenylhydrazine, 122-66-7;

~~UUU.~~ OOO. Di-n-propylnitrosamine, 621-64-7;

~~VVV.~~ PPP. Disulfoton, 298-04-4; and

~~WWW.~~ QQQ. ~~2,4 Dithiobiuret~~ Dithiobiuret, 541-53-7.

Subp. ~~5.~~ 6. **"E" constituents.** Hazardous constituents beginning with the letter E are as follows:

A. Endosulfan, 115-29-7;

B. Endothal, 145-73-3;

C. Endrin ~~and metabolites~~, 72-20-8;

~~C.~~ D. Ethyl carbamate, 51-79-6;

~~D.~~ E. Ethyl cyanide, 107-12-0;

~~E.~~ F. Ethylenebisdithiocarbamic acid, salts and esters, 111-54-6;

G. Ethylene dibromide, 106-93-4;

H. Ethylene dichloride, 107-06-2;

~~F.~~ I. Ethylene glycol monoethyl ether (Ethanol, 2-ethoxy), 110-80-5;

~~G.~~ J. Ethyleneimine, 151-56-4;

~~H.~~ K. Ethylene oxide, 75-21-8;

~~I.~~ L. Ethylenethiourea, 96-45-7;

M. Ethylidene dichloride, 75-34-3;

~~J.~~ N. Ethyl methacrylate, 97-63-2; and

~~K.~~ O. Ethylmethane sulfonate, 62-50-0.

Subp. ~~6.~~ 7. **"F" constituents.** Hazardous constituents beginning with the letter F are as follows:

A. Famphur, 52-85-7;

B. Fluoranthene, 206-44-0;

~~B.~~ C. Fluorine, 7782-41-4;

~~C. 2 Fluoroacetamide~~ D. Fluoroacetamide, 640-19-7;

~~D.~~ E. Fluoroacetic acid, sodium salt, 62-74-8; and

~~E.~~ F. Formaldehyde; ~~and~~, 50-00-0

~~F. Formic acid~~.

Subp. ~~7.~~ 8. **"G" constituents.** Hazardous constituents beginning with the letter G are as follows:

Glycidylaldehyde, 765-34-4.

Subp. ~~8.~~ 9. **"H" constituents.** Hazardous constituents beginning with the letter H are as follows:

A. Halomethane not otherwise specified in this list, ...;

B. Heptachlor, 76-44-8;

C. Heptachlor epoxide (alpha, beta, and gamma isomers), 1024-57-3;

D. Hexachlorobenzene, 118-74-1;

E. Hexachlorobutadiene, 87-68-3;

~~F. Hexachlorocyclohexane (all isomers);~~

~~G.~~ Hexachlorocyclopentadiene, 77-47-4;

~~H.~~ G. Hexachlorodibenzo-p-dioxins, ...;

~~I.~~ H. Hexachlorodibenzofurans, ...;

~~J.~~ I. Hexachloroethane, 67-72-1;

~~K. 1,2,3,4,10,10 Hexachloro 1,4,4a,5,8,8a hexahydro 1,4:5,8 endo, endo dimethanonaphthalene;~~

~~L.~~ J. Hexachlorophene, 70-30-4;

~~M.~~ K. Hexachloropropene, 1888-71-7;

~~N.~~ L. Hexaethyltetraphosphate, 757-58-4;

~~O.~~ M. Hydrazine, 302-01-2;

~~P.~~ N. Hydrogen cyanide (Hydrocyanic acid), 74-90-8;

~~Q.~~ O. Hydrogen fluoride (Hydrofluoric acid), 7664-39-3; and

~~R.~~ P. Hydrogen sulfide~~; and~~, 7783-06-4

~~S. Hydroxydimethylarsine oxide~~.

Subp. ~~9.~~ 10. **"I" constituents.** Hazardous constituents beginning with the letter I are as follows:

A. Indeno(1,2,3cd)pyrene, 193-39-5;

B. ~~Iodomethane;~~

~~C.~~ Iron dextran, 9004-66-4;

~~D. Isocyanic acid, methyl ester;~~

~~E.~~ C. Isobutyl alcohol, 78-83-1; ~~and~~

D. Isodrin, ...; and

~~F.~~ E. Isosafrole, 120-58-1.

Subp. ~~10.~~ 11. **"K" constituents.** Hazardous constituents beginning with the letter K are as follows: Kepone, 143-50-0.

Subp. ~~11.~~ 12. **"L" constituents.** Hazardous constituents beginning with the letter L are as follows:

A. Lasiocarpine, 303-34-4;

B. Lead and compounds not otherwise specified in this list, 7439-92-1;

C. Lead acetate, 301-04-2;

D. Lead phosphate, 7446-27-7; ~~and~~

E. Lead subacetate, 1335-32-6; and

F. Lindane, 58-89-9.

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Subp. ~~12.~~ 13. **"M" constituents.** Hazardous constituents beginning with the letter M are as follows:

A. Maleic anhydride, 108-31-6;

B. Maleic hydrazide, 123-33-1;

C. Malononitrile, 109-77-3;

D. Melphalan, 148-82-3;

E. Mercury fulminate, 628-86-4;

F. Mercury and compounds not otherwise specified in this list, 7439-97-6;

G. Methacrylonitrile, 126-98-7;

H. ~~Methanethiol;~~

~~I.~~ Methapyrilene, 91-80-5;

~~J.~~ I. Methomyl, 16752-77-5;

~~K.~~ J. Methoxychlor, 72-43-5;

K. Methyl bromide, 74-83-9;

L. ~~2 Methylaziridine~~ Methyl chloride, 74-87-3;

M. Methylchlorocarbonate, 79-22-1;

N. Methyl chloroform, 71-55-6;

~~M.~~ O. 3-Methylcholanthrene, 56-49-5;

~~N. Methyl chlorocarbonate;~~

~~O.~~ P. 4,4'-Methylenebis(2-chloroaniline), 101-14-4;

Q. Methylene bromide, 74-95-3;

R. Methylene chloride, 75-09-2;

~~P.~~ S. Methyl ethyl ketone (MEK), 78-93-3;

T. Methyl ethyl ketone peroxide, 1338-23-4;

~~Q.~~ U. Methyl hydrazine, 60-34-4;

V. Methyl iodide, 74-88-4;

W. Methyl isocyanate, 624-83-9;

~~R.~~ X. 2-Methyllactonitrile, 75-86-5;

~~S.~~ Y. Methyl methacrylate, 80-62-6;

~~T.~~ Z. Methyl methanesulfonate, 66-27-3;

~~U. 2 Methyl 2 (methylthio)propionaldehyde o (methylcarbonyl) oxime;~~

~~V. N Methyl N' nitro N nitrosoguanidine;~~

~~W.~~ AA. Methyl parathion, 298-00-0;

~~X.~~ BB. Methylthiouracil, 56-04-2; ~~and~~

CC. Mitomycin C, 50-07-7;

DD. MNNG, 70-25-7; and

~~Y.~~ EE. Mustard gas, 505-60-2.

Subp. ~~13.~~ 14. **"N" constituents.** Hazardous constituents beginning with the letter N are as follows:

A. Naphthalene, 91-20-3;

B. 1,4-Naphthoquinone, 130-15-4;

C. ~~1 Naphthylamine~~ alpha-Naphthylamine, 134-32-7;

D. ~~2 Naphthylamine~~ beta-Naphthylamine, 91-59-8;

E. ~~1 Naphthyl 2 thiourea~~ alpha-Naphthylthiourea, 86-88-4;

F. Nickel and compounds not otherwise specified in this list, 7440-02-0;

G. Nickel carbonyl, 13463-39-3;

H. Nickel cyanide, 557-19-7;

I. Nicotine and salts, 54-11-5;

J. Nitric oxide, 10102-43-9;

K. p-Nitroaniline, 100-01-6;

L. Nitrobenzene, 98-95-3;

M. Nitrogen dioxide, 10102-44-0;

N. Nitrogen mustard and hydrochloride salt, 51-75-2;

O. Nitrogen mustard N-oxide and hydrochloride salt, 126-85-2;

P. Nitroglycerin, 55-63-0;

Q. ~~4-Nitrophenol~~ P-Nitrophenol, 100-02-7;

R. 2-Nitropropane (Propane, 2-nitro), 79-46-9;

S. 4-Nitroquinoline-1-oxide, 56-57-5;

T. Nitrosamine not otherwise specified in this list, 35576-91-1;

U. N-Nitrosodi-n-butylamine, 924-16-3;

V. N-Nitrosodiethanolamine, 1116-54-7;

W. N-Nitrosodiethylamine, 55-18-5;

X. N-Nitrosodimethylamine, 62-75-9;

Y. N-Nitroso-N-ethyl urea, 759-73-9;

Z. N-Nitrosomethylethylamine, 10595-95-6;

AA. N-Nitroso-N-methylurea, 684-93-5;

BB. N-Nitroso-N-methylurethane, 615-53-2;

CC. N-Nitrosomethylvinylamine, 4549-40-0;

DD. N-Nitrosomorpholine, 59-89-2;

EE. N-Nitrosonornicotine, 16543-55-8;

FF. N-Nitrosopiperidine, 100-75-4;

GG. N-Nitrosopyrrolidine, 930-55-2;

HH. N-Nitrososarcosine, 13256-22-9; and

II. 5-Nitro-o-toluidine, 99-55-8.

Subp. ~~14.~~ 15. **"O" constituents.** Hazardous constituents beginning with the letter O are as follows:

A. Octamethylpyrophosphoramide, 152-16-9; and

B. Osmium tetroxide~~; and~~, 20816-12-0

~~C. 7-Oxabicyclo[2.2.1]heptane-2,3-dicarboxylic acid~~.

Subp. ~~15.~~ 16. **"P" constituents.** Hazardous constituents beginning with the letter P are as follows:

A. Paraldehyde, 123-63-7;

B. Parathion, 56-38-2;

C. Pentachlorobenzene, 608-93-5;

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D. Pentachlorodibenzo-p-dioxins, ...;

E. Pentachlorodibenzofurans, ...;

F. Pentachloroethane, 76-01-7;

G. Pentachloronitrobenzene (PCNB), 82-68-8;

H. Pentachlorophenol, 87-86-5;

I. Phenacetin, 62-44-2;

J. Phenol, 108-95-2;

K. Phenylenediamine, 25265-76-3;

L. Phenylmercury acetate, 62-38-4;

M. ~~N-Phenylthiourea~~ Phenylthiourea, 103-85-5;

N. Phorate, 298-02-2;

O. Phosgene, 75-44-5;

~~O.~~ P. Phosphine, 7803-51-2;

~~P. Phosphorodithioic acid, O,O-diethyl S-[(ethylthio)methyl]ester (Phorate);~~

Q. ~~Phosphorothioic acid, O,O-dimethyl; O-[p-(dimethylamino- sulfonyl)phenyl] ester;~~

~~R.~~ Phthalic acid esters not otherwise specified in this list, ...;

~~S.~~ R. Phthalic anhydride, 85-44-9;

~~T.~~ S. 2-Picoline, 109-06-8;

~~U.~~ T. Polychlorinated ~~biphenyl~~ biphenyls not otherwise specified in this list, ...;

~~V.~~ U. Potassium cyanide, 151-50-8;

~~W.~~ V. Potassium silver cyanide, 506-61-6;

~~X.~~ W. Pronamide, 23950-58-5;

~~Y.~~ X. 1,3-Propane sultone, 1120-71-4;

~~Z.~~ Y. n-Propylamine, 107-10-8;

Z. Propargyl alcohol, 107-19-7;

AA. Propylene dichloride, 78-87-5;

BB. 1,2-Propylenimine, 75-55-8;

~~AA.~~ CC. Propylthiouracil, 51-52-5; and

~~BB. 2-Propyn-1-ol; and~~

~~CC.~~ DD. Pyridine, 110-86-1.

Subp. ~~16.~~ 17. **"R" constituents.** Hazardous constituents beginning with the letter R are as follows:

A. ~~Reserpine~~ Reserpinen, 50-55-5; and

B. Recorcinol, 108-46-3.

Subp. ~~17.~~ 18. **"S" constituents.** Hazardous constituents beginning with the letter S are as follows:

A. Saccharin and salts, 81-07-2;

B. Safrole, 94-59-7;

C. Selenium dioxide (Selenious acid), 7783-00-8;

D. Selenium and compounds not otherwise specified in this list, 7782-49-2;

E. Selenium sulfide, 7446-34-6;

F. Selenourea, 630-10-4;

G. Silver and compounds not otherwise specified in this list, 7440-22-4;

H. Silver cyanide, 506-64-9;

I. Silvex (2,4,5-TP), 93-72-1;

J. Sodium cyanide, 143-33-9;

~~J.~~ K. Streptozotocin, 18883-66-4;

~~K.~~ L. Strontium sulfide, 1314-96-1; and

~~L.~~ M. Strychnine and salts, 57-24-9.

Subp. ~~18.~~ 19. **"T" constituents.** Hazardous constituents beginning with the letter T are as follows:

A. 1,2,4,5-Tetrachlorobenzene, 95-94-3;

B. 2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD), 1746-01-6;

C. Tetrachlorodibenzo-p-dioxins ~~not otherwise specified in this list~~, ...;

D. Tetrachlorodibenzofurans, ...;

E. Tetrachloroethane not otherwise specified in this list, 25322-20-7;

F. 1,1,1,2-Tetrachloroethane, 630-20-6;

G. 1,1,2,2-Tetrachloroethane, 79-34-5;

H. Tetrachloroethylene, 127-18-4;

I. ~~Tetrachloromethane;~~

~~J.~~ 2,3,4,6-Tetrachlorophenol, 58-90-2;

~~K.~~ J. Tetraethyldithiopyrophosphate, 3689-24-5;

~~L.~~ K. Tetraethyl lead, 78-00-2;

~~M.~~ L. Tetraethylpyrophosphate, 107-49-3;

~~N.~~ M. Tetranitromethane, 509-14-8;

~~O.~~ N. Thallium and compounds not otherwise specified in this list, 7440-28-0;

~~P.~~ O. Thallic oxide, 1314-32-5;

~~Q.~~ P. Thallium (I) acetate, 563-68-8;

~~R.~~ Q. Thallium (I) carbonate, 6533-73-9;

~~S.~~ R. Thallium (I) chloride, 7791-12-0;

~~T.~~ S. Thallium (I) nitrate, 10102-45-1;

~~U.~~ T. Thallium ~~selenide~~ selenite, 12039-52-0;

~~V.~~ U. Thallium (I) sulfate, 10031-59-1;

~~W.~~ V. Thioacetamide, 62-55-5;

W. Thiofanox, 39196-18-4;

X. Thiomethanol, 74-93-1;

Y. Thiophenol, 108-98-5;

~~X.~~ Z. Thiosemicarbazide, 79-19-6;

~~Y.~~ AA. Thiourea, 62-56-6;

~~Z.~~ BB. ~~Thiuram~~ Thiram, 137-26-8;

~~AA.~~ CC. Toluene, 108-88-3;

~~BB.~~ DD. Toluenediamine, ~~N.O.S.~~ not otherwise specified in this list, 25376-45-8;

~~CC.~~ EE. 2,4-Toluenediamine, 95-80-7;

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~~DD.~~ FF. 2,6-Toluenediamine, 823-40-5;

~~EE.~~ GG. 3,4-Toluenediamine, 496-72-0;

HH. Toluene diisocyanate, 584-84-9;

II. p-Toluidine, 106-49-0;

~~FF.~~ JJ. o-Toluidine hydrochloride, 636-21-5;

~~GG. Tolylene diisocyanate;~~

~~HH.~~ KK. Toxaphene, 8001-35-2;

~~II. Tribromomethane;~~

~~JJ.~~ LL. 1,2,4-Trichlorobenzene, 120-82-1;

~~KK. 1,1,1-Trichloroethane;~~

~~LL.~~ MM. 1,1,2-Trichloroethane, 79-00-5;

~~MM.~~ NN. ~~Trichloroethene~~ Trichloroethylene, 79-01-6;

~~NN.~~ OO. Trichloromethanethiol, 75-70-7;

~~OO.~~ PP. Trichloromonofluoromethane, 75-69-4;

~~PP.~~ QQ. 2,4,5-Trichlorophenol, 95-95-4;

~~QQ.~~ RR. 2,4,6-Trichlorophenol, 88-06-2;

~~RR.~~ SS. 2,4,5-Trichlorophenoxyacetic acid (2,4,5-T), 93-76-5;

~~SS. 2,4,5-Trichlorophenoxypropionic acid (2,4,5-TP) (Silvex);~~

TT. Trichloropropane not otherwise specified in this list, ...;

UU. 1,2,3-Trichloropropane, 96-18-4;

VV. 0,0,0-Triethyl phosphorothioate, 126-68-1;

WW. sym-Trinitrobenzene, 99-35-4;

XX. Tris(1-azridinyl)phosphine sulfide, 52-24-4;

YY. Tris(2,3-dibromopropyl) phosphate, 126-72-7; and

ZZ. Trypan blue, 72-57-1.

Subp. ~~19.~~ 20. **"U" constituents.** Hazardous constituents beginning with the letter U are as follows:

A. Uracil mustard, 66-75-1; and

B. Undecamethylenediamine,N,N'-bis(2-chlorobenzyl)-, dihydrochloride, 2056-25-9.

Subp. ~~20.~~ 21. **"V" constituents.** Hazardous constituents beginning with the letter V are as follows:

A. ~~Vanadic acid, ammonium salt;~~

~~B.~~ Vanadium pentoxide, 1314-62-1; and

~~C.~~ B. Vinyl chloride, 75-01-4.

Subp. 22. **"W" constituents.** Hazardous constituents beginning with the letter W are as follows: Warfarin, 81-81-2.

Subp. ~~21.~~ 23. **"Z" constituents.** Hazardous constituents beginning with the letter Z are as follows:

A. Zinc cyanide, 557-21-1; and

B. Zinc phosphide, 1314-84-7.

Rule as Proposed (all new material)

7045.0143 GROUNDWATER PROTECTION HAZARDOUS CONSTITUENTS LIST.

Subpart 1. **Scope.** For the purposes of the groundwater protection requirements in parts 7001.0640, subpart 1, item D, subitem (2); and 7045.0484, subparts 12, item H, subitem (2), and 13, item E, the hazardous constituents are listed with their corresponding Chemical Abstract Service registry numbers in subparts 2 to 27. Where "total" is entered for the Chemical Abstract Service registry number, all species in the groundwater that contain this element are included.

Subp. 2. **"A" constituents.** Hazardous constituents beginning with the letter A are as follows:

A. Acenaphthene, 83-32-9;

B. Acenaphthylene, 208-96-8;

C. Acetone, 67-64-1;

D. Acetophenone, 98-86-2;

E. Acetonitrile; Methyl cyanide, 75-05-8;

F. 2-Acetylaminofluorene; 2-AAF, 53-96-3;

G. Acrolein, 107-02-8;

H. Acrylonitrile, 107-13-1;

I. Aldrin, 309-00-2;

J. Allyl chloride, 107-05-1;

K. 4-Aminobiphenyl, 92-67-1;

L. Aniline, 62-53-3;

M. Anthracene, 120-12-7;

N. Antimony, (Total);

O. Aramite, 140-57-8; and

P. Arsenic, (Total).

Subp. 3. **"B" constituents.** Hazardous constituents beginning with the letter B are as follows:

A. Barium, (Total);

B. Benzene, 71-43-2;

C. Benzo[a]anthracene; Benzanthracene, 56-55-3;

D. Benzo[b]fluoranthene, 205-99-2;

E. Benzo[k]fluoranthene, 207-08-9;

F. Benzo[ghi]perylene, 191-24-2;

G. Benzo[a]pyrene, 50-32-8;

H. Benzyl alcohol, 100-51-6;

I. Beryllium, (Total);

J. alpha-BHC, 319-84-6;

K. beta-BHC, 319-85-7;

L. delta-BHC, 319-86-8;

M. gamma-BHC; Lindane, 58-89-9;

N. Bis(2-chloroethoxy)methane, 111-91-1;

O. Bis(2-chloroethyl)ether, 111-44-4;

P. Bis(2-chloro-1-methylethyl) ether; 2,2'-Dichlorodiisopropyl ether, 108-60-1;

Q. Bis(2-ethylhexyl)phthalate, 117-81-7;

R. Bromodichloromethane, 75-27-4;

S. Bromoform; Tribromomethane, 75-25-2;

T. 4-Bromophenyl phenyl ether, 101-55-3; and

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U. Butyl benzyl phthalate; Benzyl butyl phthalate, 85-68-7.

Subp. 4. **"C" constituents.** Hazardous constituents beginning with the letter C are as follows:

A. Cadmium, (Total);

B. Carbon disulfide, 75-15-0;

C. Carbon tetrachloride, 56-23-5;

D. Chlordane, 57-74-9;

E. p-Chloroaniline, 106-47-8;

F. Chlorobenzene, 108-90-7;

G. Chlorobenzilate, 510-15-6;

H. p-Chloro-m-cresol, 59-50-7;

I. Chloroethane; Ethyl chloride, 75-00-3;

J. Chloroform, 67-66-3;

K. 2-Chloronaphthalene, 91-58-7;

L. 2-Chlorophenol, 95-57-8;

M. 4-Chlorophenyl phenyl ether, 7005-72-3;

N. Chloroprene, 126-99-8;

O. Chromium, (Total);

P. Chrysene, 218-01-9;

Q. Cobalt, (Total);

R. Copper, (Total);

S. m-Cresol, 108-39-4;

T. o-Cresol, 95-48-7;

U. p-Cresol, 106-44-5; and

V. Cyanide, 57-12-5.

Subp. 5. **"D" constituents.** Hazardous constituents beginning with the letter D are as follows:

A. 2,4-D; 2,4-Dichlorophenoxyacetic acid, 94-75-7;

B. 4,4'-DDD, 72-54-8;

C. 4,4'-DDE, 72-55-9;

D. 4,4'-DDT, 50-29-3;

E. Diallate, 2303-16-4;

F. Dibenz[a,h]anthracene, 53-70-3;

G. Dibenzofuran, 132-64-9;

H. Dibromochloromethane; Chlorodibromomethane, 124-48-1;

I. 1,2-Dibromo-3-chloropropane; DBCP, 96-12-8;

J. 1,2-Dibromoethane; Ethylene dibromide, 106-93-4;

K. Di-n-butyl phthalate, 84-74-2;

L. -Dichlorobenzene, 95-50-1;

M. m-Dichlorobenzene, 541-73-1;

N. p-Dichlorobenzene, 106-46-7;

O. 3,3'-Dichlorobenzidine, 91-94-1;

P. trans-1,4-Dichloro-2-butene, 110-57-6;

Q. Dichlorodifluoromethane, 75-71-8;

R. 1,1-Dichloroethane, 75-34-3;

S. 1,2-Dichloroethane; Ethylene dichloride, 107-06-2;

T. 1,1-Dichloroethylene; Vinylidene chloride, 75-35-4;

U. trans-1,2-Dichloroethylene, 156-60-5;

V. 2,4-Dichlorophenol, 120-83-2;

W. 2,6-Dichlorophenol, 87-65-0;

X. 1,2-Dichloropropane, 78-87-5;

Y. cis-1,3-Dichloropropene, 10061-01-5;

Z. trans-1,3-Dichloropropene, 10061-02-6;

AA. Dieldrin, 60-57-1;

BB. Diethyl phthalate, 84-66-2;

CC. 0,0-Diethyl 0-2-pyrazinyl phosphorothioate; Thionazin, 297-97-2;

DD. Dimethoate, 60-51-5;

EE. p-(Dimethylamino)azobenzene, 60-11-7;

FF. 7,12-Dimethylbenz[a]anthracene, 57-97-6;

GG. 3,3'-Dimethylbenzidine, 119-93-7;

HH. alpha, alpha-Dimethylphenethylamine, 122-09-8;

II. 2,4-Dimethylphenol, 105-67-9;

JJ. Dimethyl phthalate, 131-11-3;

KK. m-Dinitrobenzene, 99-65-0;

LL. 4,6-Dinitro-o-cresol, 534-52-1;

MM. 2,4-Dinitrophenol, 51-28-5;

NN. 2,4-Dinitrotoluene, 121-14-2;

OO. 2,6-Dinitrotoluene, 606-20-2;

PP. Dinoseb; DNBP; 2-sec-Butyl-4,6-dinitrophenol, 88-85-7;

QQ. Di-n-octyl phthalate, 117-84-0;

RR. 1,4-Dioxane, 123-91-1;

SS. Diphenylamine, 122-39-4; and

TT. Disulfoton, 298-04-4.

Subp. 6. **"E" constituents.** Hazardous constituents beginning with the letter E are as follows:

A. Endosulfan I, 959-98-8;

B. Endosulfan II, 33213-65-9;

C. Endosulfan sulfate, 1031-07-8;

D. Endrin, 72-20-8;

E. Endrin aldehyde, 7421-93-4;

F. Ethylbenzene, 100-41-4;

G. Ethyl methacrylate, 97-63-2; and

H. Ethyl methanesulfonate, 62-50-0.

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Subp. 7. **"F" constituents.** Hazardous constituents beginning with the letter F are as follows:

A. Famphur, 52-85-7;

B. Fluoranthene, 206-44-0; and

C. Fluorene, 86-73-7.

Subp. 9. **"H" constituents.** Hazardous constituents beginning with the letter H are as follows:

A. Heptachlor, 76-44-8;

B. Heptachlor epoxide, 1024-57-3;

C. Hexachlorobenzene, 118-74-1;

D. Hexachlorobutadiene, 87-68-3;

E. Hexachlorocyclopentadiene, 77-47-4;

F. Hexachloroethane, 67-72-1;

G. Hexachlorophene, 70-30-4;

H. Hexachloropropene, 1888-71-7; and

I. 2-Hexanone, 591-78-6.

Subp. 10. **"I" constituents.** Hazardous constituents beginning with the letter I are as follows:

A. Indeno(1,2,3-cd)pyrene, 193-39-5;

B. Isobutyl alcohol, 78-83-1;

C. Isodrin, 465-73-6;

D. Isophorone, 78-59-1; and

E. Isosafrole, 120-58-1.

Subp. 12. **"K" constituents.** Hazardous constituents beginning with the letter K are as follows: Kepone, 143-50-0.

Subp. 13. **"L" constituents.** Hazardous constituents beginning with the letter L are as follows: Lead, (Total).

Subp. 14. **"M" constituents.** Hazardous constituents beginning with the letter M are as follows:

A. Mercury, (Total);

B. Methacrylonitrile, 126-98-7;

C. Methapyrilene, 91-80-5;

D. Methoxychlor, 72-43-5;

E. Methyl bromide; Bromomethane, 74-83-9;

F. Methyl chloride; Chloromethane, 74-87-3;

G. 3-Methylcholanthrene, 56-49-5;

H. Methylene bromide; Dibromomethane, 74-95-3;

I. Methylene chloride; Dichloromethane, 75-09-2;

J. Methyl ethyl ketone; MEK, 78-93-3;

K. Methyl iodide; Iodomethane, 74-88-4;

L. Methyl methacrylate, 80-62-6;

M. Methyl methanesulfonate, 66-27-3;

N. 2-Methylnaphthalene, 91-57-6;

O. Methyl parathion; Parathion methyl, 298-00-0; and

P. 4-Methyl-2-pentanone; Methyl isobutyl ketone, 108-10-1.

Subp. 15. **"N" constituents.** Hazardous constituents beginning with the letter N are as follows:

A. Naphthalene, 91-20-3;

B. 1,4-Naphthoquinone, 130-15-4;

C. 1-Naphthylamine, 134-32-7;

D. 2-Naphthylamine, 91-59-8;

E. Nickel, (Total);

F. o-Nitroaniline, 88-74-4;

G. m-Nitroaniline, 99-09-2;

H. p-Nitroaniline, 100-01-6;

I. Nitrobenzene, 98-95-3;

J. o-Nitrophenol, 88-75-5;

K. p-Nitrophenol, 100-02-7;

L. 4-Nitroquinoline 1-oxide, 56-57-5;

M. N-Nitrosodi-n-butylamine, 924-16-3;

N. N-Nitrosodiethylamine, 55-18-5;

O. N-Nitrosodimethylamine, 62-75-9;

P. N-Nitrosodiphenylamine, 86-30-6;

Q. N-Nitrosodipropylamine; Di-n-propylnitrosamine, 621-64-7;

R. N-Nitrosomethyl ethylamine, 10595-95-6;

S. N-Nitrosomorpholine, 59-89-2;

T. N-Nitrosopiperidine, 100-75-4;

U. N-Nitrosopyrrolidine, 930-55-2; and

V. 5-Nitro-o-toluidine, 99-55-8.

Subp. 17. **"P" constituents.** Hazardous constituents beginning with the letter P are as follows:

A. Parathion, 56-38-2;

B. Polychlorinated biphenyls; PCBs, 1336-36-3;

C. Polychlorinated dibenzo-p-dioxins; PCDDs, ...;

D. Polychlorinated dibenzofurans; PCDFs, ...;

E. Pentachlorobenzene, 608-93-5;

F. Pentachloroethane, 76-01-7;

G. Pentachloronitrobenzene, 82-68-8;

H. Pentachlorophenol, 87-86-5;

I. Phenacetin, 62-44-2;

J. Phenanthrene, 85-01-8;

K. Phenol, 108-95-2;

L. p-Phenylenediamine, 106-50-3;

M. Phorate, 298-02-2;

N. 2-Picoline, 109-06-8;

O. Pronamide, 23950-58-5;

P. Propionitrile; Ethyl cyanide, 107-12-0;

Q. Pyrene, 129-00-0; and

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R. Pyridine, 110-86-1.

Subp. 20. **"S" constituents.** Hazardous constituents beginning with the letter S are as follows:

A. Safrole, 94-59-7;

B. Selenium, (Total);

C. Silver, (Total);

D. Silvex; 2,4,5-TP, 93-72-1;

E. Styrene, 100-42-5; and

F. Sulfide, 18496-25-8.

Subp. 21. **"T" constituents.** Hazardous constituents beginning with the letter T are as follows:

A. 2,4,5-T; 2,4,5-Trichlorophenoxyacetic acid, 93-76-5;

B. 2,3,7,8-TCDD; 2,3,7,8-Tetrachlorodibenzo-p-dioxin, 1746-01-6;

C. 1,2,4,5-Tetrachlorobenzene, 95-94-3;

D. 1,1,1,2-Tetrachloroethane, 630-20-6;

E. 1,1,2,2-Tetrachloroethane, 79-34-5;

F. Tetrachloroethylene; Perchloroethylene; Tetrachloroethene, 127-18-4;

G. 2,3,4,6-Tetrachlorophenol, 58-90-2;

H. Tetraethyl dithiopyrophosphate; Suifotepp, 3689-24-5;

I. Thallium, (Total);

J. Tin, (Total);

K. Toluene, 108-88-3;

L. o-Toluidine, 95-53-4;

M. Toxaphene, 8001-35-2;

N. 1,2,4-Trichlorobenzene, 120-82-1;

O. 1,1,1-Trichloroethane; Methylchloroform, 71-55-6;

P. 1,1,2-Trichloroethane, 79-00-5;

Q. Trichloroethylene; Trichloroethene, 79-01-6;

R. Trichlorofluoromethane, 75-69-4;

S. 2,4,5-Trichlorophenol, 95-95-4;

T. 2,4,6-Trichlorophenol, 88-06-2;

U. 1,2,3-Trichloropropane, 96-18-4;

V. 0,0,0-Triethyl phosphorothioate, 126-68-1; and

W. sym-Trinitrobenzene, 99-35-4.

Subp. 23. **"V" constituents.** Hazardous constituents beginning with the letter V are as follows:

A. Vanadium, (Total);

B. Vinyl acetate, 108-05-4; and

C. Vinyl chloride, 75-01-4.

Subp. 25. **"X" constituents.** Hazardous constituents beginning with the letter X are as follows: Xylene(total), 1330-20-7.

Subp. 27. **"Z" constituents.** Hazardous constituents beginning with the letter Z are as follows: Zinc, (Total).

Rules as Proposed

7045.0484 GROUNDWATER PROTECTION.

Subpart 1. to 11. [Unchanged.]

Subp. 12. **Detection monitoring program.** An owner or operator required to establish a detection monitoring program under this part shall perform the following:

A. to G. [Unchanged.]

H. If the owner or operator determines that there is a statistically significant increase for monitoring parameters or hazardous constituents specified under item A, or item E, subitem (2), where applicable, at any monitoring well at the compliance point, the owner or operator shall:

(1) [Unchanged.]

(2) Immediately sample the groundwater in all monitoring wells and determine ~~the concentration of all~~ whether hazardous constituents identified in the list in part 7045.0143 are present and, if they are present, determine the concentration for each.

(3) Determine a background ~~values~~ value for ~~all~~ each hazardous ~~constituents~~ constituent that has been found at the compliance point under subitem (2), as follows:

(a) to (c) [Unchanged.]

(4) [Unchanged.]

(5) Immediately institute a compliance monitoring program as specified in the permit and, within 90 days, submit to the agency an application for permit modification if it is necessary to revise the compliance monitoring program to meet the requirements of subpart 13. The application must include the following information:

(a) an identification of the concentration of ~~any~~ each hazardous ~~constituents~~ constituent found in the groundwater at each monitoring well at the compliance point;

(b) to (d) [Unchanged.]

I. to K. [Unchanged.]

Subp. 13. **Compliance monitoring program.** An owner or operator required to establish a compliance monitoring program under this part shall perform the following:

A. to D. [Unchanged.]

E. The owner or operator shall analyze samples from all monitoring wells at the compliance point ~~for all~~ to determine whether hazardous constituents identified in the list in part 7045.0143 are present and, if they are present, determine the concentration of each. The analysis must be conducted at least annually to determine whether additional part 7045.0143 hazardous constituents ~~other than those specified under item D~~ are present in the monitoring wells. The owner or operator shall report the concentrations of all hazardous constituents to the commissioner within seven days after completion of the analysis. The agency shall require a permit modification to include additional hazardous constituents, which have been detected in the groundwater, in all subsequent quarterly groundwater monitoring under item D.

F. to K. [Unchanged.]

Subp. 14. [Unchanged.]

7045.0494 NOTICE TO LOCAL LAND AUTHORITY.

Subpart 1. [Unchanged.]

Subp. 2. **Post-closure notices.** Within 60 days after certification of closure of each hazardous waste disposal unit, the owner or operator shall submit to the local zoning authority or the authority with jurisdiction over local land use and to the commissioner a record of the type, location, and quantity of hazardous waste disposed of within each cell or other disposal unit of the facility. For hazardous wastes disposed of before January 12, 1981, the owner or operator shall comply with all requirements of Code of Federal Regulations, title 40, section 264.119 (1983). The owner or operator shall identify the type, location, and quantity of the waste to the best of his or her knowledge and in accordance with any records he or she has kept. A change in the type, location, or quantity of hazardous waste disposed of within each cell or area of the facility that occurs after the survey plat and record of waste have been filed must be reported to the local zoning authority or the authority with jurisdiction over local land use and to the commissioner.

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7045.0518 LIABILITY REQUIREMENTS.

Subpart 1. **Coverage for sudden accidental occurrences.** An owner or operator of a hazardous waste treatment, storage, or disposal facility, or a group of facilities, shall demonstrate financial responsibility for bodily injury and property damage to third parties caused by sudden accidental occurrences arising from operations of the facility or group of facilities. The owner or operator shall have and maintain liability coverage for sudden accidental occurrences in the amount of at least $1,000,000 per occurrence with an annual aggregate of at least $2,000,000, exclusive of legal defense costs. This liability coverage may be demonstrated in one of the following ways:

A. [Unchanged.]

B. An owner or operator may meet the requirements of this part by passing a financial test or using the corporate guarantee for liability coverage as specified in ~~subpart~~ subparts 6 and 7.

C. An owner or operator may demonstrate the required liability coverage through use of ~~both~~ the financial test ~~and~~, insurance, the corporate guarantee, a combination of the financial test and insurance, or a combination of the corporate guarantee and insurance, as these mechanisms are specified in this part. The amounts of coverage demonstrated must total at least the minimum amounts required by subpart 1.

Subp. 2. **Coverage for nonsudden accidental occurrences.** An owner or operator of a surface impoundment, landfill, or land treatment facility which is used to manage hazardous waste, or a group of such facilities, shall demonstrate financial responsibility for bodily injury and property damage to third parties caused by nonsudden accidental occurrences arising from operations of the facility or group of facilities. The owner or operator shall have and maintain liability coverage for nonsudden accidental occurrences in the amount of at least $3,000,000 per occurrence with an annual aggregate of at least $6,000,000, exclusive of legal defense costs. This liability coverage may be demonstrated in one of the following ways:

A. [Unchanged.]

B. An owner or operator may meet the requirements of this part by passing a financial test or using the corporate guarantee for liability coverage as specified in ~~subpart~~ subparts 6 and 7.

C. An owner or operator may demonstrate the required liability coverage through use of ~~both~~ the financial test ~~and~~, insurance, the corporate guarantee, a combination of the financial test and insurance, or a combination of the corporate guarantee and insurance, as these mechanisms are specified in this part. The amounts of coverage must total at least the minimum amounts required by subpart 2.

D. [Unchanged.]

Subp. 3. to 6. [Unchanged.]

Subp. 7. **Corporate guarantee for liability coverage.** The corporate guarantee for liability coverage is as follows:

A. Subject to item B, an owner or operator may meet the requirements of this part by obtaining a written corporate guarantee. The guarantor must be the parent corporation of the owner or operator. The guarantor must meet the requirements for owners or operators in subpart 6. The wording of the corporate guarantee must be identical to the wording specified in part 7045.0524, subpart 8a. The guarantee must be signed by two corporate officers of the parent corporation. A corporate resolution authorizing the parent corporation to provide the corporate guarantee for the subsidiary must be attached to the corporate guarantee. A certified copy of the corporate guarantee must accompany the items sent to the commissioner as provided in subpart 6, item E. The terms of the corporate guarantee must provide that:

(1) if the owner or operator fails to satisfy a judgment based on a determination of liability for bodily injury or property damage to third parties caused by sudden or nonsudden accidental occurrences, or both, as the case may be, arising from the operation of facilities covered by this corporate guarantee, or fails to pay an amount agreed to in settlement of claims arising from or alleged to arise from the injury or damage, the guarantor will do so up to the limits of coverage; and

(2) the corporate guarantee will remain in force unless the guarantor sends notice of cancellation by certified mail to the owner or operator and to the commissioner. This guarantee may not be terminated unless and until the commissioner approves alternate liability coverage complying with this part and/or part 7045.0620.

B. A corporate guarantee may be used to satisfy the requirements of this part only if:

(1) in the case of corporations incorporated in the United States, the attorney general or insurance commissioner of the state in which the guarantor is incorporated and of each state in which a facility covered by the guarantee is located has submitted a written statement to the commissioner and the United States Environmental Protection Agency that a corporate guarantee executed as described in this part and part 7045.0524, subpart 8a, is a legally valid and enforceable obligation in that state; and

(2) in the case of corporations incorporated outside the United States, the non-United States corporation has identified

a registered agent for service of process in each state in which a facility covered by the guarantee is located and in the state in which it has its principal place of business, and the attorney general or insurance commissioner of each state in which a facility covered by the guarantee is located and the state in which the guarantor corporation has its principal place of business, has submitted a written statement to the commissioner and the United States Environmental Protection Agency that a corporate guarantee executed as described in this part and part 7045.0524, subpart 8a, is a legally valid and enforceable obligation in that state.

7045.0524 WORDING OF INSTRUMENTS.

Subpart 1. to 5. [Unchanged.]

Subp. 6. **Letter from chief financial officer for corrective action, closure, and/or post-closure care.** A letter from the chief financial officer as specified in part 7045.0504, subpart 7; 7045.0508, subpart 7; 7045.0514, subpart 7; 7045.0612, subpart 6; or 7045.0616, subpart 6 must be worded as specified in this subpart, except that instructions in brackets must be replaced with the relevant information and the brackets deleted.

LETTER FROM CHIEF FINANCIAL OFFICER FOR CORRECTIVE ACTION, CLOSURE, AND/OR POST-CLOSURE CARE

[Agency Commissioner]

Minnesota Pollution Control Agency

I am the chief financial officer of [name and address of firm]. This letter is in support of this firm's use of the financial test to demonstrate financial assurance, as specified in Minnesota Rules, parts 7045.0498 to 7045.0524 and 7045.0608 to 7045.0624.

[Fill out the following five paragraphs regarding facilities and associated cost estimates. If your firm has no facilities that belong in a particular paragraph, write "None" in the space indicated. For each facility, include its identification number, name, address, and current corrective action, closure, and/or post-closure cost estimates. Identify each cost estimate as to whether it is for corrective action, closure, or post-closure care.]

1. to 4. [Unchanged.]

5. This firm is the owner or operator of the following underground injection control (UIC) facilities for which financial assurance for plugging and abandonment is required under Code of Federal Regulations, title 40, part 144. The current closure cost estimates as required by Code of Federal Regulations, title 40, section 144.62 are shown for each facility.

This firm [insert "is required" or "is not required"] to file a Form 10K with the Securities and Exchange Commission (SEC) for the latest fiscal year.

The fiscal year of this firm ends on [month, day]. The figures for the following items marked with an asterisk are derived from this firm's independently audited, year-end financial statements for the latest completed fiscal year, ended [date].

[Fill in Alternative I if the criteria of Minnesota Rules, part 7045.0504, subpart 7, item B; 7045.0508, subpart 7, item B; 7045.0514, subpart 7, item B; 7045.0612, subpart 6, item B; 7045.0616, subpart 6, item B are used. Fill in Alternative II if the criteria of Minnesota Rules, part 7045.0504, subpart 7, item C; 7045.0508, subpart 7, item C; 7045.0514, subpart 7, item C; or 7045.0612, subpart 6, item C; or 7045.0616, subpart 6, item C are used.]

ALTERNATIVE I

1. Sum of current corrective action, closure, and post-closure cost estimate [total of all cost estimates shown in the five paragraphs above]	$ _____
*2. Total liabilities [if any portion of the corrective action, closure, or post-closure cost estimates is included in total liabilities, you may deduct the amount of that portion from this line and add that amount to lines 3 and 4].	$ _____
*3. Tangible net worth	$ _____
*4. Net worth	$ _____

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*5. Current assets	$ _____	
*6. Current liabilities	$ _____	
7. Net working capital [line 5 minus line 6]	$ _____	
*8. The sum of net income plus depreciation, depletion, and amortization	$ _____	
*9. Total assets in United States (required only if less than 90 percent of firm's assets are located in United States)	$ _____	
	YES	NO
10. Is line 3 at least $10,000,000?	_____	_____
11. Is line 3 at least 6 times line 1?	_____	_____
12. Is line 7 at least 6 times line 1?	_____	_____
*13. Are at least 90 percent of firm's assets located in the United States? If not, complete line 14	_____	_____
14. Is line 9 at least 6 times line 1?	_____	_____
15. Is line 2 divided by line 4 less than 2.0?	_____	_____
16. Is line 8 divided by line 2 greater than 0.1?	_____	_____
17. Is line 5 divided by line 6 greater than 1.5?	_____	_____

ALTERNATIVE II

1. Sum of current corrective action, closure, and post-closure cost estimates [total of all cost estimates shown in the ~~four~~ five paragraphs above]	$ _____	
2. Current bond rating of most recent issuance of this firm and name of rating service	_____	
3. Date of issuance of bond	_____	
4. Date of maturity of bond	_____	
*5. Tangible net worth [if any portion of the corrective action, closure, and post-closure cost estimates is included in "total liabilities" on your firm's financial statements, you may add the amount of that portion to this line]	$ _____	
*6. Total assets in United States (required only if less than 90 percent of firm's assets are located in United States)	$ _____	
	YES	NO
7. Is line 5 at least $10,000,000?	_____	_____
8. Is line 5 at least 6 times line 1?	_____	_____
*9. Are at least 90 percent of firm's assets located in United States? If not, complete line 10	_____	_____
10. Is line 6 at least 6 times line 1?	_____	_____

I hereby certify that the wording of this letter is identical to the wording specified in Minnesota Rules, part 7045.0524, subpart 6, as such rules were constituted on the date shown immediately below.

[SIGNATURE]

[NAME]

[TITLE]

[DATE]

Subp. 7. **Letter from chief financial officer for liability coverage.** A letter from the chief financial officer as specified in part 7045.0518, subpart 6 or 7045.0620, subpart 5 must be worded as specified in this subpart, except that instructions in brackets must be replaced with the relevant information and the brackets deleted.

LETTER FROM CHIEF FINANCIAL OFFICER FOR LIABILITY COVERAGE OR LIABILITY COVERAGE, CORRECTIVE ACTION, CLOSURE, AND/OR POST-CLOSURE CARE

[Agency Commissioner]

Minnesota Pollution Control Agency

I am the chief financial officer of [~~owner's or operator's~~ firm's name and address]. This letter is in support of the use of the financial test to demonstrate financial responsibility for liability coverage [insert "and corrective action, closure, and/or post-closure care" if applicable] as specified in Minnesota Rules, parts 7045.0498 to 7045.0524 and 7045.0608 to 7045.0624.

[Fill out the following paragraph regarding facilities and liability coverage. If there are no facilities that belong in a particular paragraph, write "None" in the space indicated. For each facility, include its identification number, name, and address.]

The ~~owner or operator~~ firm identified above is the owner or operator of the following facilities for which liability coverage for [insert "sudden" or "nonsudden" or "both sudden and nonsudden"] accidental occurrences is being demonstrated through the financial test specified in Minnesota Rules, parts 7045.0498 to 7045.0524 and 7045.0608 to 7045.0624: _____.

The firm identified above guarantees, through the corporate guarantee specified in Minnesota Rules, parts 7045.0498 to 7045.0524 and 7045.0608 to 7045.0624, liability coverage for [insert "sudden" or "nonsudden" or "both sudden and nonsudden"] accidental occurrences at the following facilities owned or operated by the following subsidiaries of the firm: _____.

[If you are using the financial test to demonstrate coverage of both liability and corrective action, closure, and post-closure care, fill in the following five paragraphs regarding facilities and associated corrective action, closure, and post-closure cost estimates. If there are no facilities that belong in a particular paragraph, write "None" in the space indicated. For each facility, include its identification number, name, address, and current corrective action, closure, and/or post-closure cost estimates. Identify each cost estimate as to whether it is for corrective action, closure, or post-closure care.]

1. The ~~owner or operator~~ firm identified above owns or operates the following facilities for which financial assurance for corrective action, closure, or post-closure care is demonstrated through the financial test specified in Minnesota Rules, parts 7045.0498 to 7045.0524 and 7045.0608 to 7045.0624. The current corrective action, closure, and/or post-closure cost estimates covered by the test are shown for each facility: _____.

2. The ~~owner or operator~~ firm identified above guarantees, through the corporate guarantee specified in Minnesota Rules, part 7045.0498 to 7045.0524 and 7045.0608 to 7045.0624, the corrective action, closure, and post-closure care of the following facilities owned or operated by its subsidiaries. The current cost estimates for the corrective action, closure, or post-closure care so guaranteed are shown for each facility: _____.

3. In states other than Minnesota, this ~~owner or operator~~ firm is demonstrating financial assurance for the corrective action, closure, or post-closure care of the following facilities either to the United States Environmental Protection Agency through the use of the financial test specified in Code of Federal Regulations, title 40, parts 264 or 265, subpart H, or to an authorized state through the use of a test equivalent or substantially equivalent to the specified financial test. The current corrective action, closure, and/or post-closure cost estimates covered by such a test are shown for each facility: _____.

4. The ~~owner or operator~~ firm identified above owns or operates the following hazardous waste management facilities for which financial assurance for corrective action, if required, closure, or, if a disposal facility, post-closure care, is not demonstrated either to the United States Environmental Protection Agency, or a state through the financial test or any other financial assurance mechanism specified in Code of Federal Regulations, title 40, parts 264 or 265, subpart H, or equivalent or substantially equivalent state mechanisms. The current corrective action, closure, and/or post-closure cost estimates not covered by such financial assurance are shown for each facility: _____.

5. The ~~owner or operator~~ firm identified above owns or operates the following underground injection control (UIC) facilities for which financial assurance for plugging and abandonment is required under Code of Federal Regulations, title 40, part 144. The current closure cost estimates as required by Code of Federal Regulations, title 40, section 144.62 are shown for each facility: _____.

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This ~~owner or operator~~ firm [insert "is required" or "is not required"] to file a Form 10K with the Securities and Exchange Commission (SEC) for the latest fiscal year.

The fiscal year of this ~~owner or operator~~ firm ends on [month, day]. The figures for the following items marked with an asterisk are derived from this ~~owner's or operator's~~ firm's independently audited, year-end financial statements for the latest completed fiscal year, ended [date].

[Fill in Part A if you are using the financial test to demonstrate coverage only for the liability requirements.]

Part A. Liability Coverage for Accidental Occurrences.

[Fill in Alternative I if the criteria of Minnesota Rules, part 7045.0518, subpart 6, item B or 7045.0620, subpart 5, item B are used. Fill in Alternative II if the criteria of Minnesota Rules, part 7045.0518, subpart 6, item C or 7045.0620, subpart 5, item C are used.]

ALTERNATIVE I

1.	Amount of annual aggregate liability coverage to be demonstrated	$ _____
*2.	Current assets	$ _____
*3.	Current liabilities	$ _____
4.	Net working capital (line 2 minus line 3)	$ _____
*5.	Tangible net worth	$ _____
*6.	If less than 90 percent of assets are located in the United States, give total United States assets	$ _____
		YES / NO
7.	Is line 5 at least $10,000,000?	_____ / _____
8.	Is line 4 at least 6 times line 1?	_____ / _____
9.	Is line 5 at least 6 times line 1?	_____ / _____
*10.	Are at least 90 percent of assets located in the United States? If not, complete line 11	_____ / _____
11.	Is line 6 at least 6 times line 1?	_____ / _____

ALTERNATIVE II

1.	Amount of annual aggregate liability coverage to be demonstrated	$ _____
2.	Current bond rating of most recent issuance and name of rating service	_____
3.	Date of issuance of bond	_____
4.	Date of maturity of bond	_____
*5.	Tangible net worth	$ _____
*6.	Total assets in United States (required only if less than 90 percent of assets located in the United States)	$ _____
		YES / NO
7.	Is line 5 at least $10,000,000?	_____ / _____
8.	Is line 5 at least 6 times line 1?	_____ / _____
*9.	Are at least 90 percent of assets located in the United States? If not, complete line 10	_____ / _____
10.	Is line 6 at least 6 times line 1?	_____ / _____

Part B. Corrective Action, Closure, or Post-Closure Care and Liability Coverage.

[Fill in Alternative I if the criteria of Minnesota Rules, parts 7045.0504, subpart 7, item B; 7045.0508, subpart 7, item B; 7045.0514, subpart 7, item B; and 7045.0518, subpart 6, item B are used or if the criteria of Minnesota Rules, parts 7045.0612, subpart 6, item B or 7045.0616, subpart 6, item B; and 7045.0620, subpart 5, item B are used. Fill in Alternative II if the criteria of Minnesota Rules, parts 7045.0504, subpart 7, item C; 7045.0508, subpart 7, item C; 7045.0514, subpart 7, item C; and 7045.0518, subpart 6, item C are used or if the criteria of Minnesota Rules, parts 7045.0612, subpart 6, item C; 7045.0616, subpart 6, item C; and 7045.0620, subpart 5, item C are used.]

ALTERNATIVE I

1.	Sum of current corrective action, closure, and post-closure cost estimates (total of all cost estimates listed above)	$ _____
2.	Amount of annual aggregate liability coverage to be demonstrated	$ _____
3.	Sum of lines 1 and 2	$ _____
*4.	Total liabilities (if any portion of your current corrective action, closure, or post-closure cost estimates is included in your total liabilities, you may deduct that portion from this line and add that amount to lines 5 and 6)	$ _____
*5.	Tangible net worth	$ _____
*6.	Net worth	$ _____
*7.	Current assets	$ _____
*8.	Current liabilities	$ _____
9.	Net working capital (line 7 minus line 8)	$ _____
*10.	The sum of net income plus depreciation, depletion, and amortization	$ _____
*11.	Total assets in United States (required only if less than 90 percent of assets are located in the United States)	$ _____

		YES	NO
12.	Is line 5 at least $10,000,000?	_____	_____
13.	Is line 5 at least 6 times line 3?	_____	_____
14.	Is line 9 at least 6 times line 3?	_____	_____
*15.	Are at least 90 percent of assets located in the United States? If not, complete line 16	_____	_____
16.	Is line 11 at least 6 times line 3?	_____	_____
17.	Is line 4 divided by line 6 less than 2.0?	_____	_____
18.	Is line 10 divided by line 4 greater than 0.1?	_____	_____
19.	Is line 7 divided by line 8 greater than 1.5?	_____	_____

ALTERNATIVE II

1.	Sum of current corrective action, closure, and post-closure cost estimates (total of all cost estimates listed above)	$ _____
2.	Amount of annual aggregate liability coverage to be demonstrated	$ _____
3.	Sum of lines 1 and 2	$ _____
4.	Current bond rating of most recent issuance and name of rating service	_____
5.	Date of issuance of bond	_____
6.	Date of maturity of bond	_____
*7.	Tangible net worth (if any portion of the current corrective action, closure, or post-closure cost estimates is included in "total liabilities" on your financial statements you may add that portion to this line)	$ _____

KEY: PROPOSED RULES SECTION — Underlining indicates additions to existing rule language. ~~Strike outs~~ indicate deletions from existing rule language. If a proposed rule is totally new, it is designated "all new material." ADOPTED RULES SECTION — Underlining indicates additions to proposed rule language. ~~Strike outs~~ indicate deletions from proposed rule language.

*8. Total assets in the United States (required only if less than 90 percent of assets are located in the United States)	$ _____	
	YES	NO
9. Is line 7 at least $10,000,000?	_____	_____
10. Is line 7 at least 6 times line 3?	_____	_____
*11. Are at least 90 percent of assets located in the United States? If not, complete line 12	_____	_____
12. Is line 8 at least 6 times line 3?	_____	_____

I hereby certify that the wording of this letter is identical to the wording specified in Minnesota Rules, part 7045.0524, subpart 7, as the rules were constituted on the date shown immediately below.

[SIGNATURE]

[NAME]

[TITLE]

[DATE]

Subp. 8. [Unchanged.]

Subp. 8a. **Corporate guarantee for liability coverage.** A corporate guarantee as specified in part 7045.0518, subpart 7, or 7045.0620, subpart 6, must be worded as follows, except that instructions in brackets are to be replaced with the relevant information and the brackets deleted:

CORPORATE GUARANTEE FOR LIABILITY COVERAGE

Guarantee made this [date] by [name of guaranteeing entity], a business corporation organized under the laws of [if incorporated within the United States, insert "the State of ....." and insert name of state; if incorporated outside the United States, insert the name of the country in which incorporated, the principal place of business within the United States, and the name and address of the registered agent in the state of the principal place of business], referred to in this guarantee as the guarantor. This guarantee is made on behalf of our subsidiary [owner or operator] of [business address], to any and all third parties who have sustained or may sustain bodily injury or property damage caused by [sudden and/or nonsudden] accidental occurrences arising from operation of the facility(ies) covered by this guarantee.

Recitals

1. Guarantor meets or exceeds the financial test criteria and agrees to comply with the reporting requirements for guarantors as specified in Minnesota Rules, parts 7045.0518, subpart 7, and 7045.0620, subpart 6.

2. [Owner or operator] owns or operates the following hazardous waste management facility(ies) covered by this guarantee: [List for each facility: EPA Identification Number, name, and address; and if guarantor is incorporated outside the United States, list the name and address of the guarantor's registered agent in each state.] This corporate guarantee satisfies RCRA third-party liability requirements for [insert "sudden" or "nonsudden" or "both sudden and nonsudden"] accidental occurrences in above-named owner or operator facilities for coverage in the amount of [insert dollar amount] for each occurrence and [insert dollar amount] annual aggregate.

3. For value received from [owner or operator], guarantor guarantees to any and all third parties who have sustained or may sustain bodily injury or property damage caused by [sudden and/or nonsudden] accidental occurrences arising from operations of the facility(ies) covered by this guarantee that in the event that [owner or operator] fails to satisfy a judgment or award based on a determination of liability for bodily injury or property damage to third parties caused by [sudden and/or nonsudden] accidental occurrences, arising from the operation of the above-named facilities, or fails to pay an amount agreed to in settlement of a claim arising from or alleged to arise from such injury or damage, the guarantor will satisfy such judgment(s), award(s), or settlement agreement(s), up to the limits of coverage identified above.

4. Guarantor agrees that if, at the end of any fiscal year before termination of this guarantee, the guarantor fails to meet the financial test criteria, guarantor shall send within 90 days, by certified mail, notice to the commissioner and to [owner or operator] that (s)he intends to provide alternate liability coverage as specified in Minnesota Rules, parts 7045.0518 and 7045.0620, as applicable, in the name of [owner or operator]. Within 120 days after the end of that fiscal year, the guarantor shall establish the liability coverage unless [owner or operator] has done so.

5. The guarantor agrees to notify the commissioner by certified mail of a voluntary or involuntary proceeding under Title 11 (bankruptcy), United States Code, naming guarantor as debtor, within ten days after commencement of the proceeding.

6. Guarantor agrees that within 30 days after being notified by the commissioner of a determination that guarantor no longer meets the financial test criteria or that (s)he is disallowed from continuing as a guarantor, (s)he shall establish alternate liability coverage as specified in Minnesota Rules, part 7045.0518 or 7045.0620 in the name of [owner or operator], unless [owner or operator] has done so.

7. Guarantor reserves the right to modify this agreement to take into account amendment or modification of the liability requirements established by Minnesota Rules, parts 7045.0518 and 7045.0620, but the modification becomes effective only if the commissioner does not disapprove the modification within 30 days of receipt of notification of the modification.

8. Guarantor agrees to remain bound under this guarantee for so long as [owner or operator] must comply with the applicable requirements of Minnesota Rules, parts 7045.0518 and 7045.0620 for the above-listed facility(ies), except as provided in paragraph 9 of this agreement.

9. Guarantor may terminate this guarantee by sending notice by certified mail to the commissioner and to [owner or operator] but this guarantee may not be terminated unless and until [owner or operator] obtains, and the commissioner approves alternate liability coverage complying with Minnesota Rules, parts 7045.0518 and/or 7045.0620.

10. Guarantor hereby expressly waives notice of acceptance of this guarantee by any party.

11. Guarantor agrees that this guarantee is in addition to and does not affect any other responsibility or liability of the guarantor with respect to the covered facilities.

12. Exclusions

This corporate guarantee does not apply to:

A. Bodily injury or property damage for which the owner or operator is obliged to pay damages by reason of the assumption of liability in a contract or agreement. This exclusion does not apply to liability for damages that the owner or operator would be obligated to pay in the absence of the contract or agreement.

B. Any obligation of the owner or operator under a workers' compensation, disability benefits, or unemployment compensation law or any similar law.

C. Bodily injury to:

(1) an employee of the owner or operator arising from, and in the course of, employment by the owner or operator; or

(2) the spouse, child, parent, brother, or sister of that employee as a consequence of, or arising from, and in the course of, employment by the owner or operator.

This exclusion applies whether the owner or operator is liable as an employer or in any other capacity. This exclusion also applies to any obligation to share damages with or repay another person who must pay damages because of the injury to persons identified in item C.

D. Bodily injury or property damage arising out of the ownership, maintenance, use, or entrustment to others of any aircraft, motor vehicle, or watercraft.

E. Property damage to:

(1) any property owned, rented, or occupied by the owner or operator;

(2) premises that are sold, given away, or abandoned by the owner or operator if the property damage arises out of any part of those premises;

(3) property loaned to the owner or operator;

(4) personal property in the care, custody, or control of the owner or operator; and

(5) that particular part of real property on which the owner or operator or any contractors or subcontractors working directly or indirectly on behalf of the owner or operator are performing operations, if the property damage arises out of these operations.

I hereby certify that the wording of the guarantee is identical to the wording specified in Minnesota Rules, part 7045.0524, subpart 8a.

KEY: PROPOSED RULES SECTION — Underlining indicates additions to existing rule language. ~~Strike outs~~ indicate deletions from existing rule language. If a proposed rule is totally new, it is designated "all new material." ADOPTED RULES SECTION — Underlining indicates additions to proposed rule language. ~~Strike outs~~ indicate deletions from proposed rule language.

Effective date: .....

[Name of guarantor]

[Authorized signatures for guarantor]

[Names of persons signing]

[Titles of persons signing (Two corporate officers must sign for parent corporation.)]

Corporate resolution attached [(Attach resolution adopted by parent corporation authorizing parent corporation to provide the corporate guarantee for subsidiary)]

Signature of witness or notary:

Subp. 9. and 10. [Unchanged.]

7045.0602 POST-CLOSURE CARE AND USE OF PROPERTY.

Subpart 1. and 2. [Unchanged.]

Subp. 3. **Post-closure use of property.** Post-closure use of property on or in which hazardous wastes remain after closure must never be allowed by the owner or operator to disturb the integrity of the final cover, liners, or any other components of any containment system or the function of the facility's monitoring system, unless the owner or operator can demonstrate to the commissioner either in the post-closure plan or by ~~protection~~ petition that the disturbance:

A. and B. [Unchanged.]

Subp. 4. [Unchanged.]

7045.0610 COST ESTIMATE FOR FACILITY CLOSURE.

Subpart 1. **Cost estimate requirements.** The owner or operator shall prepare a detailed written estimate, in current dollars, of the cost of closing the facility in accordance with the closure plan in part 7045.0594 and applicable closure requirements in parts 7045.0626, subpart 8; 7045.0628, subpart 5; 7045.0630, subpart 6; 7045.0632, subpart 7; 7045.0634, subpart 6; 7045.0638, subpart 4; 7045.0640, subpart 5; and 7045.0642, subpart 5. The closure cost estimate must equal the cost of closure at the point in the facility's operating life when the extent and manner of its operation would make closure the most expensive, as indicated by its closure plan. The closure cost shall be estimated as follows:

A. [Unchanged.]

B. The closure cost estimate may not incorporate any salvage value that may be realized with the ~~scale~~ sale of hazardous wastes, facility structures or equipment, land, or other assets associated with the facility at the time of partial or final closure.

C. [Unchanged.]

Subp. 2. to 4. [Unchanged.]

7045.0620 LIABILITY REQUIREMENTS.

Subpart 1. **Coverage for sudden accidental occurrences.** An owner or operator of a hazardous waste treatment, storage, or disposal facility, or a group of these facilities, shall demonstrate financial responsibility for bodily injury and property damage to third parties caused by sudden accidental occurrences arising from operations of the facility or group of facilities. The owner or operator shall have and maintain liability coverage for sudden accidental occurrences in the amount of at least $1,000,000 per occurrence with an annual aggregate of at least $2,000,000, exclusive of legal defense costs. This liability coverage may be demonstrated in one of three ways, as specified in items A, B, and C:

A. [Unchanged.]

B. An owner or operator may meet the requirements of this ~~rule~~ part by passing a financial test or using the corporate guarantee for liability coverage as specified in ~~subpart~~ subparts 5 and 6.

C. An owner or operator may demonstrate the required liability coverage through use of ~~both~~ the financial test ~~and~~, insurance, the corporate guarantee, a combination of the financial test and insurance, or a combination of the corporate guarantee and insurance as these mechanisms are specified in this part. The amounts of coverage demonstrated must total at least the minimum amounts required by subpart 1.

Subp. 2. **Coverage for nonsudden accidental occurrences.** An owner or operator of a surface impoundment, landfill, or land treatment facility which is used to manage hazardous waste, or a group of these facilities, shall demonstrate financial responsibility for bodily damage and property damage to third parties caused by nonsudden accidental occurrences arising from operations of the

facility or group of facilities. The owner or operator shall have and maintain liability coverage for nonsudden accidental occurrences in the amount of at least $3,000,000 per occurrence with an annual aggregate of at least $6,000,000, exclusive of legal defense costs. This liability coverage may be demonstrated in one of three ways as specified in items A, B, and C:

A. [Unchanged.]

B. An owner or operator may meet the requirements of this ~~rule~~ part by passing a financial test or using the corporate guarantee for liability coverage as specified in ~~subpart~~ subparts 5 and 6.

C. An owner or operator may demonstrate the required liability coverage through use of ~~both~~ the financial test ~~and~~, insurance, the corporate guarantee, a combination of the financial test and insurance, or a combination of the corporate guarantee and insurance as these mechanisms are specified in this part. The amounts of coverage must total at least the minimum amounts required by subpart 1.

D. and E. [Unchanged.]

Subp. 3. to 5. [Unchanged.]

Subp. 6. **Corporate guarantee for liability coverage.** The corporate guarantee for liability coverage is as follows:

A. Subject to item B, an owner or operator may meet the requirements of this part by obtaining a written corporate guarantee. The guarantor must be the parent corporation of the owner or operator. The guarantee must meet the requirements for owners or operators in subpart 5. The wording of the corporate guarantee must be identical to the wording specified in part 7045.0524, subpart 8a. The guarantee must be signed by two corporate officers of the parent corporation. A corporate resolution authorizing the parent corporation to provide the corporate guarantee for the subsidiary must be attached to the guarantee. A certified copy of the corporate guarantee must accompany the items sent to the commissioner as specified in subpart 5, item E. The terms of the corporate guarantee must provide that:

(1) if the owner or operator fails to satisfy a judgment based on a determination of liability for bodily injury or property damage to third parties caused by sudden or nonsudden accidental occurrences, or both, as the case may be, arising from the operation of facilities covered by this corporate guarantee, or fails to pay an amount agreed to in settlement of claims arising from or alleged to arise from such injury or damage, the guarantor will do so up to the limits of coverage; and

(2) the corporate guarantee will remain in force unless the guarantor sends notice of cancellation by certified mail to the owner or operator and to the commissioner. This guarantee may not be terminated unless and until the commissioner approves alternate liability coverage complying with this part and/or part 7045.0518.

B. A corporate guarantee may be used to satisfy the requirements of this part only if:

(1) in the case of corporations incorporated in the United States, the attorney general or insurance commissioner of the state in which the guarantor is incorporated and of each state in which a facility covered by the guarantee is located has submitted a written statement to the commissioner and the United States Environmental Protection Agency that a corporate guarantee executed as described in this part and part 7045.0524, subpart 8a, is a legally valid and enforceable obligation in that state; and

(2) in the case of corporations incorporated outside the United States, the non-United States corporation has identified a registered agent for service of process in each state in which a facility covered by the guarantee is located and in the state in which it has its principal place of business, and the attorney general or insurance commissioner of each state in which a facility covered by the guarantee is located and the state in which the guarantor corporation has its principal place of business, has submitted a written statement to the commissioner and the United States Environmental Protection Agency that a corporate guarantee executed as described in this part and part 7045.0524, subpart 8a, is a legally valid and enforceable obligation in that state.

7045.0630 SURFACE IMPOUNDMENTS.

Subpart 1. to 5. [Unchanged.]

Subp. 6. **Closure and post-closure.** The requirements of closure and post-closure are as follows:

A. At closure, the owner or operator may elect to remove from the impoundment or decontaminate any standing liquids, waste and waste residues, ~~the liner~~ contaminated containment system components including liners, if any, ~~and~~ underlying and surrounding contaminated soil, and structures and equipment contaminated with waste and leachate.

KEY: PROPOSED RULES SECTION — Underlining indicates additions to existing rule language. ~~Strike outs~~ indicate deletions from existing rule language. If a proposed rule is totally new, it is designated "all new material." ADOPTED RULES SECTION — Underlining indicates additions to proposed rule language. ~~Strike outs~~ indicate deletions from proposed rule language.

B. If the owner or operator removes or decontaminates all the impoundment materials described in item A ~~or can demonstrate that none of the materials listed in item A remaining at any stage of removal are hazardous waste~~, the impoundment is not further subject to the requirements of parts 7045.0552 to 7045.0642. At closure and throughout the operating period, unless the owner or operator can demonstrate that any waste removed from the surface impoundment is not a hazardous waste, he or she becomes a generator of hazardous waste and must manage it in accordance with all applicable requirements of parts 7045.0205 to 7045.0397 and 7045.0552 to 7045.0642.

C. If the owner or operator does not remove or decontaminate all the impoundment materials described in item A, ~~or does not make the demonstration described in item B,~~ he or she shall close the impoundment and provide post-closure care as for a landfill under parts 7045.0594 to 7045.0606 and 7045.0638, subpart 4. ~~If necessary to support the final cover specified in the approved closure plan, the owner or operator shall treat remaining liquids, residues, and soils by removal of liquids, drying, or other means.~~, including the following:

(1) eliminate free liquids by removing liquid wastes or solidifying the remaining wastes and waste residues;

(2) stabilize remaining wastes to a bearing capacity sufficient to support the final cover; and

(3) cover the surface impoundment with a final cover designed and constructed to provide long-term minimization of the migration of liquids through the closed impoundment, function with minimum maintenance, promote drainage and minimize erosion or abrasion of the cover, accommodate settling and subsidence so that the cover's integrity is maintained, and have a permeability less than or equal to the permeability of any bottom liner system or natural subsoils present.

D. In addition to the requirements of parts 7045.0594 to 7045.0606 and 7045.0638, subpart 4, during the post-closure care period, the owner or operator of a surface impoundment in which wastes, waste residues, or contaminated materials remain after closure in accordance with item C shall:

(1) maintain the integrity and effectiveness of the final cover, including making repairs to the cover as necessary to correct the effects of settling, subsidence, erosion, or other events;

(2) maintain and monitor the groundwater monitoring system and comply with all other applicable requirements of part 7045.0590; and

(3) prevent run-on and run-off from eroding or otherwise damaging the final cover.

The closure requirements under part 7045.0638, subpart 4, will vary with the amount and nature of the residues remaining, if any, and the degree of contamination of the underlying and surrounding soil. The commissioner may vary post-closure requirements, according to part 7045.0602, subpart 1.

Subp. 7. and 8. [Unchanged.]

Pollution Control Agency

Proposed Permanent Rules Relating to Low-Level Radioactive Waste Generator Fees

Notice of Intent to Adopt Rule Amendment Without a Public Hearing

Notice is hereby given that the Minnesota Pollution Control Agency (Agency) intends to adopt the above-entitled rule amendment without a public hearing following the procedures set forth in the Administrative Procedure Act for adopting rules without a public hearing in *Minnesota Statutes* §§ 14.22 to 14.28 (1986). The Agency's authority to adopt the rule amendment is set forth in *Minnesota Statutes* § 116C.834 (1986).

All persons have until 4:30 p.m. on June 16, 1988, to submit comments in support of or in opposition to the proposed rule amendment or any part or subpart of the rule amendment. Comment is encouraged. Each comment should identify the portion of the proposed rule amendment addressed, the reason for the comment, and any change proposed.

Any person may make a written request for a public hearing on the rule amendment within the comment period. If 25 or more persons submit a written request for a public hearing within the comment period, a public hearing will be held unless a sufficient number withdraw their requests in writing. Any person requesting a public hearing should state his or her name and address, and is encouraged to identify the portion of the proposed rule amendment addressed, the reason for the request, and any change proposed. If a public hearing is required, the Agency will proceed pursuant to *Minnesota Statutes* §§ 14.131 to 14.20 (1986).

Comments or written requests for a public hearing must be submitted to:

Dagmar Romano
Minnesota Pollution Control Agency
520 Lafayette Road North
St. Paul, Minnesota 55155
(612) 296-7319

CERTIFICATE OF RESOLUTION ADOPTING RULES

I, Gerald L. Willet, do hereby certify that I am the Commissioner of the Minnesota Pollution Control Agency, an agency duly authorized under the laws of the State of Minnesota, and that the following is a true, complete, and correct copy of a resolution adopted at a meeting of the Minnesota Pollution Control Agency duly and properly called and held on the twenty-sixth day of July 1988, that a quorum was present at said meeting, that a majority of those present voted for the resolution and that said resolution will be set forth in the minutes of said meeting and has not been rescinded or modified:

> BE IT RESOLVED, that the Minnesota Pollution Control Agency hereby approves and adopts the attached amendments to the Minnesota Pollution Control Agency's rules governing the management of hazardous waste, Minn. Rules pts. 7001.0640, 7045.0135, 7045.0141, 7045.0143, 7045.0484, 7045.0494, 7045.0518, 7045.0524, 7045.0602, 7045.0610, 7045.0620, and 7045.0630, pursuant to the authority vested in the Minnesota Pollution Control Agency by Minn. Stat. § 116.07, subd. 4 (1986).
>
> BE IT FURTHER RESOLVED, that prior to publishing the rules as adopted in the State Register, the Commissioner is authorized to make any form changes to the rules that the Revisor of Statutes requires the Minnesota Pollution Control Agency to make in order to obtain the Revisor's Certification as required by Minn. Stat. § 14.07, subd. 2 (1986).
>
> BE IT FURTHER RESOLVED, that the Minnesota Pollution Control Agency adopts the Findings of Fact, Conclusions, and Order Adopting Rule Amendments and that the Commissioner is hereby authorized to sign the above-mentioned document on behalf of the Minnesota Pollution Control Agency and to perform the necessary acts to provide that the rule amendments shall have the force and effect of law.

IN WITNESS WHEREOF, I have hereunto subscribed my name this 26th day of July, 1988.

Gerald L. Willet

GERALD L. WILLET
Commissioner

SF-00006-05 (4/86)

DEPARTMENT : POLLUTION CONTROL AGENCY

STATE OF MINNESOTA

Office Memorandum

DATE : June 16, 1988

TO : The Rulemaking File for hazardous waste ground water monitoring list, corporate guarantees, corrective action, interim status surface impoundments, and lists

FROM : Patrick F. Carey PFC 6/16/88
Program Development Unit
Hazardous Waste Division

THRU: Sharon C. Meyer, Supervisor, Program Development Unit, HW Division

PHONE : 296-7767 SCM 6/16/88

SUBJECT : IDENTIFICATION OF CORRECTIONS NEEDED IN THE PROPOSED HAZARDOUS WASTE RULE AMENDMENTS AS PUBLISHED IN THE MAY 16, 1988, STATE REGISTER

On May 16, 1988, the Minnesota Pollution Control Agency (MPCA) published proposed amendments to the State hazardous waste rules (12 SR 2449-2500). The proposed amendments incorporate changes to federal requirements governing a ground water monitoring constituents list, corporate guarantees for liability coverage, corrective action information requirements, interim status surface impoundment standards, and technical corrections and clarifications to the lists of hazardous wastes. A copy of the proposed rules is attached.

This memorandum to the rulemaking file serves to document two corrections needed in the proposed hazardous waste rule amendments, as published in the May 16, 1988, State Register.

The first correction is needed in the proposed amendments to Minn. Rules pt. 7001.0640, subp. 2. Minn. Rules pt. 7001.0640, subp. 2 currently requires owners or operators of surface impoundments, waste piles, land treatment units, and landfills to submit detailed plans and engineering reports for a corrective action program in the Part B permit application (See Minn. Rules pt. 7001.0640, subp. 2). The proposed amendment to Minn. Rules pt. 7001.0640, subp. 2 allows the owner or operator to submit the detailed plans and engineering report after permit issuance through a schedule of compliance included in the permit, if written authorization to do so is obtained "from the Commissioner before submitting the permit application." The word "complete" should be added before the words "permit application" in the proposed amendments. The federal version of the correction, which also contains the word "complete," was published in the September 9, 1987, Federal Register (52 FR 33936), a copy of which is attached. The correction to the proposed State amendments will provide consistency and equivalency with the federal requirements.

The second correction is needed in the proposed amendments to Minn. Rules pts. 7045.0135, subp. 4 and 7045.0141. Minn. Rules pt. 7045.0135, subp. 4 currently provides a listing of chemicals which are hazardous when discarded or intended to be discarded. Minn. Rules pt. 7045.0141 provides a listing of hazardous constituents.

In the August 6, 1986, Federal Register, the U.S. Environmental Protection Agency (EPA) published technical corrections and clarifications to the federal lists of hazardous wastes and constituents. The proposed amendments to Minn. Rules pts. 7045.0135, subp. 4 and 7045.0141 incorporate these technical corrections and clarifications. However, EPA published further technical corrections and clarifications to the federal lists of hazardous wastes and constituents in the April 22, 1988, Federal Register, a copy of which is attached. The April 22, 1988, federal rulemaking action corrects the chemical nomenclature of a number of entries already existing on the lists of hazardous wastes and constituents and also adds the corresponding hazardous waste numbers to hazardous constituents listed, as an identification aid.

MPCA staff believe it is appropriate to correct proposed Minn. Rules pts. 7045.0135, subp. 4 and 7045.0141 to incorporate the federal corrections and clarifications to the lists of hazardous wastes and constituents, as published in the April 22, 1988, Federal Register. There would not be any hazardous wastes or constituents added to or deleted from the lists as a result of these corrections. Rather, the chemical nomenclature of a number of existing entries would be corrected in order to reflect the form technically useful and accepted by the laboratory and scientific communities. Also, hazardous waste numbers would be added as a clarification tool to assist those using the lists in identifying hazardous wastes. These corrections and clarifications provided in the lists would not change the regulatory nature of the State rules. The changes would merely provide clarity and accuracy to the existing hazardous wastes and constituents lists.

MPCA staff discussed the needed corrections with Bill Sierks, Special Assistant Attorney General. Mr. Sierks subsequently discussed the corrections with Martha Casserly, the Special Assistant in the Attorney General's Administrative Division responsible for reviewing administrative rules for legality. Both Mr. Sierks and Ms. Casserly believe that the corrections would not represent a substantive change in the proposed rule amendments, since the corrections would not change the regulatory nature of the State rules and would merely provide clarity and accuracy in the proposed amendments. Therefore, the corrections may be made at this point in the administrative rulemaking process without republishing the corrections for public comment.

PFC:kac

Attachments

cc: Bill Sierks, Special Assistant, Attorney General

DRAFT

5HS-JCK-13

RECEIVED

JUN 16 88

MPCA. Hazardous
Waste Division

Ms. Sharon Meyer
Supervisor, Program Development Unit
Hazardous Waste Division
Minnesota Pollution Control Agency
520 Lafayette Road
St. Paul, Minnesota 55155

Dear Ms. Meyer:

This is in response to the draft rules package received May 22, 1988, pertaining to the rules found in the following Federal Registers: A) July 9, 1987, Hazardous Constituents for Groundwater Monitoring (which includes Appendix IX); B) July 11, 1986, and November 18, 1987, Corporate Guarantees for Liability Coverage; C) March 19, 1987, Interim Status Surface Impoundment Standards; D) June 22, 1987, Corrective Action Information Requirements, and E) August 8, 1986, and April 22, 1988, Corrections and Modifications to the List of Hazardous Wastes (for Commercial Chemical Products).

We have reviewed the above draft rules and have the following minor comments.

1) The September 9, 1987, Federal Register correction to the June 22, 1987, rule. Code of Federal Regulations (CFR) Part 270.14 (c)(8)(v)/ Minnesota Rule 7001.0640, Subpart 2: the word "complete" is missing. The paragraph should read," The permit may contain a schedule for submittal of the information required... prior to submittal of the complete permit application". It is our understanding that this change will be included in the final rule.

2) The July 9, 1987, Federal Register, please note that in Appendix IX, on Page 54, item L of the Minnesota rule, the "o" is missing from the chemical name "o-Dichlorobenzene-CAS number 95-50-1".

3) We have indicated in previous communications that the Minnesota list of commercial chemical products (August 6, 1986, Federal Register) did not have to be re-written if the list contained the common name and chemical abstract number. A disc was sent to the State recently which contains the listing of commercial chemical products as printed in the Federal Register on April 22, 1988. This Federal Register is up-to-date and should be used in place of the August 6, 1986, list. Where there is a chemical name such as H_2O - the chemical name might appear as H20. This would require a minor change on your part.

FROM EPA REG.5 CHIGO. 06/15/87 11:04 P. 3 TOTAL P. 3

Thank you for the opportunity to comment. If you have any questions, please contact Ms. Christine Klemme, of my staff, at (312) 886-3715.

Sincerely,

William E. Muno
Acting Associate Division Director
Office of RCRA

cc: Patrick Carey

STATE OF MINNESOTA
POLLUTION CONTROL AGENCY

In the Matter of the Proposed Amendments of Rules Governing the Management, Storage, Treatment, and Disposal of Hazardous Waste, Minn. Rules Pts. 7001.0640, 7045.0135, 7045.0141, 7045.0143, 7045.0484, 7045.0494, 7045.0518, 7045.0524, 7045.0602, 7045.0610, 7045.0620, and 7045.0630

AFFIDAVIT OF RECEIVING NO REQUESTS FOR NOTIFICATION OF SUBMISSION OF RULE AMENDMENTS TO THE OFFICE OF THE ATTORNEY GENERAL

STATE OF MINNESOTA)
) ss.
COUNTY OF RAMSEY)

Patrick F. Carey, being duly sworn says:

I hereby certify that the Minnesota Pollution Control Agency received no requests from any persons or associations for notification that the rule amendments in the above-entitled matter have been submitted to the Attorney General.

Pat F. Carey

Subscribed and sworn to before me
this 21 day of July, 1988.

Ardith M. Vos
NOTARY PUBLIC

ARDITH M. VOS
NOTARY PUBLIC — MINNESOTA
ANOKA COUNTY
My commission expires 1-12-94

STATE OF MINNESOTA
POLLUTION CONTROL AGENCY

In the Matter of the Proposed
Amendments of Rules Governing
the Management, Storage, Treatment,
and Disposal of Hazardous Waste,
Minnesota Rules Parts 7001.0640,
7045.0135, 7045.0141, 7045.0143,
7045.0484, 7045.0494, 7045.0518,
7045.0524, 7045.0602, 7045.0610,
7045.0620, and 7045.0630

DECLARATION OF COUNSEL

I, William Sierks, Special Assistant Attorney General, do hereby declare that I have examined the above-captioned rules and the supporting rulemaking record, and that, based on my examination, the Administrative Procedure Act and Minnesota Rules ch. 2010 have been followed. For Attorney General billing purposes, the four-digit docket client code is 0697.

William Sierks

William Sierks
Special Assistant
Attorney General

HUBERT H. HUMPHREY, III
ATTORNEY GENERAL

STATE OF MINNESOTA
OFFICE OF THE ATTORNEY GENERAL
ST. PAUL 55155

ADDRESS REPLY TO:
SUITE 200
520 LAFAYETTE ROAD
ST. PAUL, MN 55155
TELEPHONE: (612) 297-1075

RECEIVED
JUL 29 88
ATTORNEY GENERAL'S OFFICE
515 TRANSPORTATION BLDG.
ST. PAUL, MN 55155

July 28, 1988

Ms. Christie Eller
Assistant Attorney General
Office of the Attorney General
515 Transportation Building
St. Paul, Minnesota 55155

Re: In the Matter of Proposed Rules Governing the Management of Hazardous Waste, Minn. Rules Pts. 7001.0640, 7045.0135, 7045.0141, 7045.0143, 7045.0484, 7045.0494, 7045.0518, 7045.0524, 7045.0602, 7045.0610, 7045.0620, and 7045.0630

Dear Ms. Eller:

On July 26, 1988, the Minnesota Pollution Control Agency adopted the above-captioned rules governing the management of hazardous waste. Enclosed for your review are the following:

1. Rules as adopted (original and three copies).

2. Findings of Fact, Conclusions, and Order Adopting Rules (two copies).

3. Certificate of Resolution Adopting Rules.

4. Notice of Intent to Solicit Outside Opinion (12 SR 1821, February 29, 1988).

5. Copies of written comments received pursuant to the Notice of Intent to Solicit Outside Opinion.

6. Certificate of Authorizing Resolution.

7. Notice of Intent to Adopt Rules Without a Public Hearing and rules as proposed (12 SR 2449, May 16, 1988).

8. Comments received during the comment period.

9. Notice of Intent to Adopt Rules Without a Public Hearing, as mailed.

10. Affidavit of Mailing the Notice of Intent to Adopt Rule Without a Public Hearing and Certificate of Mailing List.

11. Rules as proposed.

12. Statement of Need and Reasonableness.

13. Declaration of Counsel.

14. Affidavit stating that no requests were received for notification of submission of rules, as adopted, to the Attorney General.

Very truly yours,

William Sierks

William Sierks
Special Assistant
Attorney General

WS:jl

Enclosures

Office of the Revisor of Statutes

Administrative Rules

TITLE: Proposed Permanent Rules Relating to Hazardous Waste; Corrective Action, Interim Status, Groundwater, and Lists

AGENCY: Pollution Control Agency

MINNESOTA RULES: Chapters 7001 and 7045

The attached rules are approved for publication
in the State Register

David S. Niss
Assistant Revisor