DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENT

Solid and Hazardous Waste Commission/ Hazardous Materials and Waste Management Division

HAZARDOUS WASTE - IDENTIFICATION AND LISTING OF HAZARDOUS WASTE

6 CCR 1007-3 Part 261

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PART 261 - IDENTIFICATION AND LISTING OF HAZARDOUS WASTE

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Subpart A - General

§ 261.1 Purpose and scope.

- (a) This part identifies those solid wastes which are subject to regulation as hazardous wastes under Parts 262 through 268 and Part 100 and which are subject to the notification requirements of Part 99. In this part:
 - (1) Subpart A defines the terms "solid waste" and "hazardous waste," identifies those wastes which are excluded from regulation under Parts 262 through 268, 99 and Part 100 of these regulations and establishes special management requirements for hazardous waste which is recycled.
 - (2) Subpart B sets forth the criteria used by the Department to identify characteristics of hazardous waste and to list particular hazardous wastes.
 - (3) Subpart C identifies characteristics of hazardous waste.
 - (4) Subpart D lists particular hazardous wastes.
- (b) The definition of solid waste contained in this Part applies only to wastes that also are hazardous. For example, it does not apply to materials (such as non-hazardous scrap, paper, textiles, or rubber) that are not otherwise hazardous wastes and that are recycled.
 - (2) This Part identifies only some of the materials which are solid wastes and hazardous wastes under Sections 3007, 3013, and 7003 of RCRA. A material which is not identified or listed in this Part, is still a solid waste and a hazardous waste for purposes of these sections if:
 - (i) In the case of Sections 3007 and 3013, EPA has reason to believe that the material may be a solid waste within the meaning of Section 1004(27) of RCRA and a hazardous waste within the meaning of Section 1004(5) of RCRA; or
 - (ii) In the case of Section 7003, the statutory elements are established.
- (c) An attached statement of basis and purpose for these regulations has been adopted by the Board of Health and is hereby incorporated by reference in these regulations pursuant to C.R.S. 1973, 24-4-103.
- (d) For the purposes of §§ 261.2 and 261.6:
 - (1) A "spent material" is any material that has been used and as a result of contamination can no longer serve the purpose for which it was produced without processing;
 - (2) "Sludge" has the same meaning used in § 260.10 of these regulations;

- (3) A "by-product" is a material that is not one of the primary products of a production process and is not solely or separately produced by the production process. Examples are process residues such as slags or distillation column bottoms. The term does not include a co-product that is produced for the general public's use and is ordinarily used in the form it is produced by the process.
- (4) A material is "reclaimed" if it is processed to recover a usable product, or if it is regenerated. Examples are recovery of lead values from spent batteries and regeneration of spent solvents.
- (5) A material is "used or reused" if it is either:
 - (i) Employed as an ingredient (including use as an intermediate) in an industrial process to make a product (for example, distillation bottoms from one process used as feedstock in another process). However, a material will not satisfy this condition if distinct components of the material are recovered as separate end products (as when metals are recovered from metal-containing secondary materials); or
 - (ii) Employed in a particular function or application as an effective substitute for a commercial product (for example, spent pickle liquor used as phosphorous precipitant and sludge conditioner in wastewater treatment).
- (6) "Scrap metal" is bits and pieces of metal parts (e.g., bars, turnings, rods, sheets, wire) or metal pieces that may be combined together with bolts or soldering (e.g., radiators, scrap automobiles, railroad box cars), which when worn or superfluous can be recycled.
- (7) A material is "recycled" if it is used, reused, or reclaimed.
- (8) A material is "accumulated speculatively" if it is accumulated before recycled. A material is not accumulated speculatively, however, if the person accumulating it can show that the material is potentially recyclable and has a feasible means of being recycled; and that-during the calendar year (commencing on January 1)-the amount of material that is recycled, or transferred to a different site for recycling, equals at least 75% by weight or volume of the amount of that material accumulated at the beginning of the period. Materials must be placed in a storage unit with a label indicating the first date that the material began to be accumulated. If placing a label on the storage unit is not practicable, the accumulation period must be documented through an inventory log or other appropriate method. In calculating the percentage of turnover, the 75% requirement is to be applied to each material of the same type (e.g., slags from a single smelting process) that is recycled in the same way (i.e., from which the same material is recovered or that is used in the same way). Materials accumulating in units that would be exempt from regulation under § 261.4(c) are not to be included in making the calculation. Materials that are already defined as solid wastes also are not to be included in making the calculation. Materials are no longer in this category once they are removed from accumulation for recycling, however.
- (9) "Excluded scrap metal" is processed scrap metal, unprocessed home scrap metal, and unprocessed prompt scrap metal.

- (10) "Processed scrap metal" is scrap metal which has been manually or physically altered to either separate it into distinct materials to enhance economic value or to improve the handling of materials. Processed scrap metal includes, but is not limited to scrap metal which has been baled, shredded, sheared, chopped, crushed, flattened, cut, melted, or separated by metal type (i.e., sorted), and, fines, drosses and related materials which have been agglomerated.
 - (Note: shredded circuit boards being sent for recycling are not considered processed scrap metal. They are covered under the exclusion from the definition of solid waste for shredded circuit boards being recycled (§ 261.4(a)(15)).
- "Home scrap metal" is scrap metal as generated by steel mills, foundries, and refineries such as turnings, cuttings, punchings, and borings.
- (12) "Prompt scrap metal" is scrap metal as generated by the metal working/fabrication industries and includes such scrap metal as turnings, cuttings, punchings, and borings. Prompt scrap is also known as industrial or new scrap metal.

§ 261.2 Definition of solid waste.

- (a) A solid waste is any discarded material that is not excluded by d§ 261.4(a) or that is not excluded by variance granted under § 260.30 and § 260.31.
 - (2) A discarded material is any material which is:
 - (i) Abandoned, as explained in paragraph (b) of this section; or
 - (ii) Recycled, as explained in paragraph (c) of this section; or
 - (iii) Considered inherently waste-like, as explained in paragraph (d) of this section.
- (b) Materials are solid waste if they are abandoned by being:
 - (1) Disposed of; or
 - (2) Burned or incinerated; or
 - (3) Accumulated, stored, or treated (but not recycled) before or in lieu of being abandoned by being disposed of, burned, or incinerated; or
 - (4) Sham recycled, as explained in paragraph (g) of this section.
- (c) Materials are solid wastes if they are recycled or accumulated, stored, or treated before recycling as specified in paragraphs (c)(1) through (c)(4) of this section.
 - (1) Used in a manner constituting disposal.
 - (i) Materials noted with a "*" in column 1 of Table I are solid waste when they are:
 - (A) Applied to or placed on the land in a manner that constitutes disposal; or
 - (B) Used to produce products that are applied to or placed on the land or are otherwise contained in products that are applied to or placed on the land (in which cases the product itself remains a solid waste).

(ii) However, commercial chemical products listed in § 261.33 are not solid wastes if they are applied to the land and that is their ordinary manner of use.

(2) Burning for energy recovery.

- (i) Materials noted with a "*" in column 2 of Table 1 are solid wastes when they are:
 - (A) Burned to recover energy;
 - (B) Used to produce a fuel or are otherwise contained in fuels (in which cases the fuel itself remains a solid waste).
- (ii) However, commercial chemical products listed in § 261.33 are not solid wastes if they are themselves fuels.
- (3) **Reclaimed**. Materials noted with a "---" in column 3 of Table 1 are not solid wastes when reclaimed. Materials noted with a "*" in column 3 of Table 1 are solid wastes when reclaimed unless they meet the requirements of § 261.4(a)(17).
- (4) **Accumulated speculatively.** Materials noted with a "*" in column 4 of Table 1 are solid wastes when accumulated speculatively.

Table 1				
	Use constituting disposal (§ 261.2(c)(1))	Energy recovery/fuel (§ 261.2(c)(2))	Reclamation (§ 261.2(c)(3)) (except as provided in § 261.4(a)(17) for mineral processing secondary materials)	Speculative accumulation (§ 261.2(c)(4))
	(1)	(2)	(3)	(4)
Spent Materials	(*)	(*)	(*)	(*)
Sludges (listed in § 261.31 or § 261.32)	(*)	(*)	(*)	(*)
Sludges exhibiting a characteristic of hazardous waste	(*)	(*)	()	(*)
By-products (listed in § 261.31 or § 261.32)	(*)	(*)	(*)	(*)
By-products exhibiting a characteristic of hazardous waste	(*)	(*)	()	(*)
Commercial chemical products listed in § 261.33	(*)	(*)	()	()
Scrap metal that is not excluded under § 261.4(a)(14)	(*)	(*)	(*)	(*)

Note: The terms "spent materials", "sludges", "by-products", "scrap metal", and "processed scrap metal" are defined in '261.1.

- (d) Inherently waste-like materials. The following materials are solid wastes when they are recycled in any manner:
 - (1) Hazardous Waste Nos. F020, F021 (unless used as an ingredient to make a product at the site of generation), F022, F023, F026, and F028.

- (2) Secondary materials fed to a halogen acid furnace that exhibit a characteristic of a hazardous waste or are listed as a hazardous waste as defined in Subparts C or D of this part, except for brominated material that meets the following criteria:
 - (i) The material must contain a bromine concentration of at least 45%; and
 - (ii) The material must contain less than a total of 1% of toxic organic compounds listed in Appendix VIII; and
 - (iii) The material is processed continually on-site in the halogen acid furnace via direct conveyance (hard piping).
- (3) The Department will use the following criteria to add wastes to that list:
 - (i) (A) The materials are ordinarily disposed of, burned, or incinerated; or
 - (B) The materials contain toxic constituents listed in Appendix VIII of Part 261 and these constituents are not ordinarily found in raw materials or products for which the materials substitute (or are found in raw materials or products in smaller concentrations) and are not used or reused during the recycling process; and
 - (ii) The material may pose a substantial hazard to human health and the environment when recycled.
- (e) Materials that are not solid waste when recycled.
 - (1) Materials are not solid wastes when they can be shown to be recycled by being:
 - (i) Used or reused as ingredients in an industrial process to make a product, provided the materials are not being reclaimed; or
 - (ii) Used or reused as effective substitutes for commercial products; or
 - (iii) Returned to the original process from which they are generated, without first being reclaimed or land disposed. The material must be returned as a substitute for feedstock materials. In cases where the original process to which the material is returned is a secondary process, the materials must be managed such that there is no placement on the land. In cases where the materials are generated and reclaimed within the primary mineral processing industry, the conditions of the exclusion found at § 261.4(a)(17) apply rather than this paragraph.
 - (2) The following materials are solid wastes, even if the recycling involves use, reuse, or return to the original process (described in paragraphs (e)(1)(i) through (iii) of this section:
 - (i) Materials used in a manner constituting disposal, or used to produce products that are applied to the land; or
 - (ii) Materials burned for energy recovery, used to produce a fuel, or contained in fuels; or
 - (iii) Materials accumulated speculatively; or
 - (iv) Materials listed in paragraphs (d)(1) and (d)(2) of this section.

- (f) Documentation of claims that materials are not solid wastes or are conditionally exempt from regulation. In order to claim that a certain material is not a solid waste or is conditionally exempt from regulation, owners or operators must demonstrate that there is a known market or disposition for the material, and that they meet the terms of the exclusion or exemption. In doing so, they must provide appropriate documentation (such as contracts showing that a second person uses the material as an ingredient in a production process) to demonstrate that the material is not a waste, or is exempt from regulation. In addition, owners or operators of facilities claiming that they actually are recycling materials must show that they have the necessary equipment to do so. Materials that are not legitimately recycled are discarded and are solid waste. In determining whether their recycling is legitimate, owners or operators must address the requirements below.
 - (2) Reserved.
- (g) **Sham recycling**. A hazardous secondary material found to be sham recycled is considered discarded and a solid waste. Sham recycling is recycling that is not legitimate recycling as defined in § 260.43.

§ 261.3 Definition of hazardous waste.

- (a) A solid waste, as defined in § 261.2, is a hazardous waste if it has no commercial use or value and:
 - (1) It is not excluded from regulation as a hazardous waste under § 261.4(b); and
 - (2) It meets any of the following criteria:
 - (i) It exhibits any of the characteristics of hazardous waste identified in Subpart C of this part. However, any mixture of a waste from the extraction, beneficiation, and processing of ores and minerals excluded under § 261.4(b)(7) and any other solid waste exhibiting a characteristic of hazardous waste under Subpart C is a hazardous waste only if it exhibits a characteristic that would not have been exhibited by the excluded waste alone if such mixture had not occurred, or if it continues to exhibit any of the characteristics exhibited by the non-excluded wastes prior to mixture. Further, for the purposes of applying the Toxicity Characteristic to such mixtures, the mixture is also a hazardous waste if it exceeds the maximum concentration for any contaminant listed in table I to § 261.24 that would not have been exceeded by the excluded waste alone if the mixture had not occurred or if it continues to exceed the maximum concentration for any contaminant exceeded by the nonexempt waste prior to mixture.
 - (ii) It is listed in Subpart D and has not been excluded from the lists in Subpart D under § §260.20 and 260.22.
 - (iii) Reserved
 - (iv) It is a mixture of solid waste and one or more hazardous wastes listed in Subpart D and has not been excluded from paragraph (a)(2) of this section under § § 260.20 and 260.22, or paragraph (g) of this section; however, the following mixtures of solid wastes and hazardous wastes listed in Subpart D of this part are not hazardous wastes (except by application of paragraph (a)(2)(i) or (ii) of this section) if the generator can demonstrate that the mixture consists of wastewater the discharge of which is subject to regulation under either Section 402 or Section 307(b) of the Clean Water Act (including wastewater at facilities which have eliminated the discharge of wastewater) and:

- (A) One or more of the following spent solvents listed in § 261.31 carbon tetrachloride, tetrachloroethylene, trichloroethylene provided that the maximum total weekly usage of these solvents (other than the amounts that can be demonstrated not to be discharged to wastewater) divided by the average weekly flow of wastewater into the headworks of the facility's wastewater treatment or pre-treatment system does not exceed 1 part per million; or
- (B) One or more of the following spent solvents listed in § 261.31 methylene chloride, 1,1,1-trichloroethane, chlorobenzene, odichlorobenzene, cresols, cresylic acid, nitrobenzene, toluene, methyl ethyl ketone, carbon disulfide, isobutanol, pyridine, spent chlorofluorocarbon solvents provided that the maximum total weekly usage of these solvents (other than the amounts that can be demonstrated not to be discharged to wastewater) divided by the average weekly flow of wastewater into the headworks of the facility's wastewater treatment or pre-treatment system does not exceed 25 parts per million; or
- (C) One of the following wastes listed in § 261.32, provided that the wastes are discharged to the refinery oil recovery sewer before primary oil/water/solids separation heat exchanger bundle cleaning sludge from the petroleum refining industry (EPA Hazardous Waste No. K050), crude oil storage tank sediment from petroleum refining operations (EPA Hazardous Waste No. K169), clarified slurry oil tank sediment and/or inline filter/separation solids from petroleum refining operations (EPA Hazardous Waste No. K170), spent hydrotreating catalyst (EPA Hazardous Waste No. K171), and spent hydrorefining catalyst (EPA Hazardous Waste No. K172); or
- (D) A discarded commercial chemical product, or chemical intermediate listed in § 261.33, arising from **de minimis** losses of these materials from manufacturing operations in which these materials are used as raw materials or are produced in the manufacturing process. For purposes of this sub-paragraph, "de minimis losses include those from normal material handling operations (e.g. spills from the unloading or transfer of materials from bins or other containers, leaks from pipes, valves or other devices used to transfer materials); minor leaks of process equipment; storage tanks or containers; leaks from well maintained pump packings and seals; sample purgings; relief device discharges; discharges from safety showers and rinsing and cleaning of personal safety equipment; and rinsate from empty containers or from containers that are rendered empty by that rinsing; or
- (E) Wastewater resulting from laboratory operations containing toxic (T) wastes listed in Subpart D, provided that the annualized average flow of laboratory wastewater does not exceed one percent of total wastewater flow into the headworks of the facility's wastewater treatment or pretreatment system, or provided the wastes, combined annualized average concentration does not exceed one part per million in the headworks of the facility's wastewater treatment or pretreatment facility. Toxic (T) wastes used in laboratories that are demonstrated not to be discharged to wastewater are not to be included in this calculation; or

- (F) One or more of the following wastes listed in § 261.32 -- wastewaters from the production of carbamates and carbamoyl oximes (EPA Hazardous Waste No. K157)--Provided that the maximum weekly usage of formaldehyde, methyl chloride, methylene chloride, and triethylamine (including all amounts that can not be demonstrated to be reacted in the process, destroyed through treatment, or is recovered, i.e., what is discharged or volatilized) divided by the average weekly flow of process wastewater prior to any dilutions into the headworks of the facility's wastewater treatment system does not exceed a total of 5 parts per million by weight; or
- (G) Wastewaters derived from the treatment of one or more of the following wastes listed in § 261.32 -- organic waste (including heavy ends, still bottoms, light ends, spent solvents, filtrates, and decantates) from the production of carbamates and carbamoyl oximes (EPA Hazardous Waste No. K156)--Provided, that the maximum concentration of formaldehyde, methyl chloride, methylene chloride, and triethylamine prior to any dilutions into the headworks of the facility's wastewater treatment system does not exceed a total of 5 milligrams per liter.
- (v) Rebuttable presumption for used oil. Used oil containing more than 1000 ppm total halogens is presumed to be a hazardous waste because it has been mixed with halogenated hazardous waste listed in Subpart D of Part 261 of these regulations. Persons may rebut this presumption by demonstrating that the used oil does not contain hazardous waste (for example, by showing that the used oil does not contain significant concentrations of halogenated hazardous constituents listed in Appendix VIII of Part 261 of these regulations).
 - (A) The rebuttable presumption does not apply to metalworking oils/fluids containing chlorinated paraffins, if they are processed, through a tolling agreement, to reclaim metalworking oils/fluids. The presumption does apply to metalworking oils/fluids if such oils/fluids are recycled in any other manner, or disposed.
 - (B) The rebuttable presumption does not apply to used oils contaminated with chlorofluorocarbons (CFCs) removed from refrigeration units where the CFCs are destined for reclamation. The rebuttable presumption does apply to used oils contaminated with CFCs that have been mixed with used oil from sources other than refrigeration units.
- (b) A solid waste which is not excluded from regulation under paragraph (a)(1) of this section becomes a hazardous waste when any of the following events occur:
 - (1) In the case of a waste listed in Subpart D, when the waste first meets the listing description set forth in Subpart D.
 - (2) In the case of a mixture of solid waste and one or more listed hazardous wastes, when a hazardous waste listed in Subpart D is first added to the solid waste.
 - (3) In the case of any other waste (including a waste mixture), when the waste exhibits any of the characteristics identified in Subpart C.
- (c) Unless and until it meets the criteria of paragraph (d):
 - (1) A hazardous waste will remain a hazardous waste.

- (2) (i) Except as otherwise provided in paragraph (c)(2)(ii) or (g) of this section, any solid waste generated from the treatment, storage, or disposal of a hazardous waste, including any sludge, spill residue, ash, emission control dust, or leachate (but not including precipitation run-off) is a hazardous waste. (However, materials that are reclaimed from solid wastes and that are used beneficially are not solid wastes and hence are not hazardous wastes under this provision unless the reclaimed material is burned for energy recovery or used in a manner constituting disposal).
 - (ii) The following solid wastes are not hazardous even though they are generated from the treatment, storage, or disposal of a hazardous waste, unless they exhibit one or more of the characteristics of hazardous waste:
 - (A) Waste pickle liquor sludge generated by lime stabilization of spent pickle liquor from the iron and steel industry (SIC Codes 331 and 332)
 - (B) Wastes from burning any of the materials exempted from regulation by § 261.6(a)(3)(iii)and(iv).
 - (C) Nonwastewater residues, such as slag, resulting from high (1) temperature metals recovery (HTMR) processing of K061, K062, or F006 waste, in units identified as rotary kilns, flame reactors, electric furnaces, plasma arc furnaces, slag reactors, rotary hearth furnace/electric furnace combinations or industrial furnaces (as defined in § 260.10), that are disposed in subtitle D units, provided that these residues meet the generic exclusion levels identified in the tables in this paragraph, for all constituents, and exhibit no characteristics of hazardous waste. Testing requirements must be incorporated in a facility's waste analysis plan or a generator's self-implementing waste analysis plan; at a minimum, composite samples of residues must be collected and analyzed quarterly and/or when the process or operation generating the waste changes. Persons claiming this exclusion will have the burden of proof that the material meets all of the exclusion requirements.

Constituent	Maximum for any single composite sample (mg/l)		
Generic exclusion levels for K061 and K062 nonwastewater HTMR residues			
Antimony	0.10		
Arsenic	0.50		
Barium	7.6		
Beryllium	0.010		
Cadmium	0.050		
Chromium (total)	0.33		
Lead	0.15		
Mercury	0.009		
Nickel	1.0		
Selenium	0.16		
Silver	0.30		
Thallium	0.020		
Zinc	70		
Generic exclusion levels for F006 nonwastewater HTMR residues			
Antimony	0.10		
Arsenic	0.50		
Barium	7.6		
Beryllium	0.010		
Cadmium	0.050		
Chromium (total)	0.33		
Cyanide (total)(mg/kg)	1.8		
Lead	0.15		
Mercury	0.009		
Nickel	1.0		
Selenium	0.16		
Silver	0.30		
Thallium	0.020		
Zinc	70		

- (2) A one-time notification and certification must be placed in the facility's files and sent to the Department for K061, K062, or F006 HTMR residues that meet the generic exclusion levels for all constituents and do not exhibit any characteristics that are sent to subtitle D units. The notification and certification that is placed in the generator's or treater's files must be updated if the process or operation generating the waste changes and/or if the subtitle D unit receiving the waste changes. However, the generator or treater need only notify the Department on an annual basis if such changes occur. Such notification and certification should be sent to the Department by the end of the calendar year, but no later than December 31. The notification must include the following information: The name and address of the subtitle D unit receiving the waste shipments; the EPA Hazardous Waste Number(s) and treatability group(s) at the initial point of generation; and, the treatment standards applicable to the waste at the initial point of generation. The certification must be signed by an authorized representative and must state as follows: "I certify under penalty of law that the generic exclusion levels for all constituents have been met without impermissible dilution and that no characteristic of hazardous waste is exhibited. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment."
- (D) Biological treatment sludge from the treatment of one of the following wastes listed in § 261.32 organic waste (including heavy ends, still bottoms, light ends, spent solvents, filtrates, and decantates) from the production of carbamates and carbamoyl oximes (EPA Hazardous Waste No. K156), and wastewaters from the production of carbamates and carbamoyl oximes (EPA Hazardous Waste No. K157).
- (E) Catalyst inert support media separated from one of the following wastes listed in § 261.32 Spent hydrotreating catalyst (EPA Hazardous Waste No. K171), and Spent hydrorefining catalyst (EPA Hazardous Waste No. K172).
- (d) Any solid waste described in paragraph (c) of this section is not a hazardous waste if it meets the following criteria:
 - (1) In the case of any solid waste, it does not exhibit any of the characteristics of hazardous waste identified in Subpart C of this part. (However, wastes that exhibit a characteristic at the point of generation may still be subject to the requirements of Part 268, even if they no longer exhibit a characteristic at the point of land disposal.)
 - (2) In the case of a waste which is a listed waste under Subpart D, contains a waste listed under Subpart D or is derived from a waste listed in Subpart D, it also has been excluded from paragraph (c) under § § 260.20 and 260.22.
- (e) Any material which would be a hazardous waste subject to the provisions of these regulations except for the fact that it has commercial use or value is subject to regulations pursuant to § 261.6 of these regulations.

- (f) Notwithstanding paragraphs (a) through (d) of this section and provided the debris as defined in Part 268 of these regulations does not exhibit a characteristic identified at Subpart C of this part, the following materials are not subject to regulation under Parts 260, 261 to 267, 268, or 100:
 - (1) Hazardous debris as defined in Part 268 of these regulations that has been treated using one of the required extraction or destruction technologies specified in Table 1 of § 268.45 of these regulations; persons claiming this exclusion in an enforcement action will have the burden of proving by clear and convincing evidence that the material meets all of the exclusion requirements; or
 - (2) Debris as defined in Part 268 of these regulations that the Director, considering the extent of contamination, has determined is no longer contaminated with hazardous waste.
- (g) (1) A hazardous waste that is listed in Subpart D of this part solely because it exhibits one or more characteristics of ignitability as defined under § 261.21, corrosivity as defined under § 261.22, or reactivity as defined under § 261.23 is not a hazardous waste, if the waste no longer exhibits any characteristic of hazardous waste identified in Subpart C of this part.
 - (2) The exclusion described in paragraph (g)(1) of this section also pertains to:
 - (i) Any mixture of a solid waste and a hazardous waste listed in Subpart D of this part solely because it exhibits the characteristics of ignitability, corrosivity, or reactivity as regulated under paragraph (a)(2)(iv) of this section; and
 - (ii) Any solid waste generated from treating, storing, or disposing of a hazardous waste listed in Subpart D of this part solely because it exhibits the characteristics of ignitability, corrosivity, or reactivity as regulated under paragraph (c)(2)(i) of this section.
 - (3) Wastes excluded under this section are subject to Part 268 of these regulations (as applicable), even if they no longer exhibit a characteristic at the point of land disposal.
 - (4) Any mixture of a solid waste excluded from regulation under § 261.4(b)(7) and a hazardous waste listed in subpart D of this part solely because it exhibits one or more of the characteristics of ignitability, corrosivity, or reactivity as regulated under paragraph (a)(2)(iv) of this section is not a hazardous waste, if the mixture no longer exhibits any characteristic of hazardous waste identified in Subpart C of this part for which the hazardous waste listed in Subpart D of this part was listed.
- (h) Reserved

§ 261.4 Exclusions.

- (a) Materials which are not solid wastes. The following materials are not solid wastes for the purpose of this Part:
 - (1) (i) Domestic sewage; and
 - (ii) Any mixture of domestic sewage and other wastes that passes through a sewer system to a publicly owned treatment works for treatment, except as prohibited by § 267.505 and Clean Water Act requirements at 40 CFR § 403.5(b). "Domestic sewage" means untreated sanitary wastes that pass through a sewer system.

- (2) Industrial wastewater discharges that are point source discharges subject to regulation under Section 402 of the Clean Water Act. as amended.
- Irrigation return flows.
- (4) Source, special nuclear or by-product material as defined by the Atomic Energy Act of 1954, as amended, 42 U.S.C. 2011 et seq.
- (5) Materials subjected to in-situ mining techniques which are not removed from the ground as part of the extraction process.
- (6) Inert materials deposited for construction fill or topsoil placement in connection with actual or contemplated construction at such location or for changes in land contour for agricultural and mining purposes, if such depositing does not fall within the definition of treatment, storage, or disposal of hazardous waste.
- (7) Pulping liquors (i.e., black liquor) that are reclaimed in a pulping liquor recovery furnace and then reused in the pulping process, unless it is accumulated speculatively as defined in § 261.1(c) of these regulations;
- (8) Secondary materials that are reclaimed and returned to the original process or processes in which they were generated where they are reused in the production process provided:
 - Only tank storage is involved, and the entire process through completion of reclamation is closed by being entirely connected with pipes or other comparable enclosed means of conveyance;
 - (ii) Reclamation does not involve controlled flame combustion (such as occurs in boilers, industrial furnaces, or incinerators);
 - (iii) The secondary materials are never accumulated in such tanks for over twelve months without being reclaimed; and
 - (iv) The reclaimed material is not used to produce a fuel, or used to produce products that are used in a manner constituting disposal.
- (9) Spent sulfuric acid used to produce virgin sulfuric acid, provided it is not accumulated speculatively as defined in § 261.1(c) of these regulations.
- (10) (i) Spent wood preserving solutions that have been used and are reclaimed and are reused for their original intended purpose; and
 - (ii) Wastewaters from the wood preserving process that have been reclaimed and are reused to treat wood.
 - (iii) Prior to reuse, the wood preserving wastewaters and spent wood preserving solutions described in paragraphs (a)(10)(i) and (a)(10)(ii) of this section, so long as they meet all of the following conditions:
 - (A) The wood preserving wastewaters and spent wood preserving solutions are reused on-site at water borne plants in the production process for their original intended purpose;
 - (B) Prior to reuse, the wastewaters and spent wood preserving solutions are managed to prevent release to either land or groundwater or both;

- (C) Any unit used to manage wastewaters and/or spent wood preserving solutions prior to reuse can be visually or otherwise determined to prevent such releases;
- (D) Any drip pad used to manage the wastewaters and/or spent wood preserving solutions prior to reuse complies with the standards in Part 265, Subpart W of these regulations, regardless of whether the plant generates a total of less than 100 kg/month of hazardous waste; and
- (E) Prior to operating pursuant to this exclusion, the plant owner or operator prepares a one-time notification stating that the plant intends to claim the exclusion, giving the date on which the plant intends to begin operating under the exclusion, and containing the following language: "I have read the applicable regulation establishing an exclusion for wood preserving wastewaters and spent wood preserving solutions and understand it requires me to comply at all times with the conditions set out in the regulation." The plant must maintain a copy of that document in its onsite records until closure of the facility. The exclusion applies only so long as the plant meets all of the conditions. If the plant goes out of compliance with any condition, it may apply to the appropriate Regional Administrator or State Director for reinstatement. The Regional Administrator or State Director may reinstate the exclusion upon finding that the plant has returned to compliance with all conditions and that violations are not likely to recur.
- (11) EPA Hazardous Waste Nos. K060, K087, K141, K142, K143, K144, K145, K147, and K148, and any wastes from the coke by-products processes that are hazardous only because they exhibit the Toxicity Characteristic (TC) specified in § 261.24 of this part, when, subsequent to generation, these materials are recycled to coke ovens, to the tar recovery process as a feedstock to produce coal tar, or mixed with coal tar prior to the sale or refining of the tar. This exclusion is conditioned on there being no land disposal of the wastes from the point at which they are generated to the point at which they are recycled to coke ovens or tar recovery or refining processes, or mixed with coal tar.
- (12) Nonwastewater splash condenser dross residue from the treatment of K061 in high temperature metals recovery units, provided it is shipped in drums (if shipped) and not land disposed before recovery.
- (13)Oil-bearing hazardous secondary materials (i.e., sludges, byproducts, or spent materials) that are generated at a petroleum refinery (SIC code 2911) and are inserted into the petroleum refining process (SIC code 2911-including, but not limited to, distillation, catalytic cracking, fractionation, or thermal cracking units (i.e., cokers)) unless the material is placed on the land, or speculatively accumulated before being so recycled. Materials inserted into thermal cracking units are excluded under this paragraph, provided that the coke product also does not exhibit a characteristic of hazardous waste. Oil-bearing hazardous secondary materials may be inserted into the same petroleum refinery where they are generated, or sent directly to another petroleum refinery, and still be excluded under this provision. Except as provided in paragraph (a)(13)(ii) of this section, oil-bearing hazardous secondary materials generated elsewhere in the petroleum industry (i.e., from sources other than petroleum refineries) are not excluded under this section. Residuals generated from processing or recycling materials excluded under this paragraph (a)(13)(i), where such materials as generated would have otherwise met a listing under Subpart D of this part, are designated as F037 listed wastes when disposed of or intended for disposal.

- (ii) Recovered oil that is recycled in the same manner and with the same conditions as described in paragraph (a)(13)(i) of this section. Recovered oil is oil that has been reclaimed from secondary materials (including wastewater) generated from normal petroleum industry practices, including refining, exploration and production, bulk storage, and transportation incident thereto (SIC codes 1311, 1321, 1381, 1382, 1389, 2911, 4612, 4613, 4922, 4923, 4789, 5171, and 5172.) Recovered oil does not include oil-bearing hazardous wastes listed in Subpart D of this part; however, oil recovered from such wastes may be considered recovered oil. Recovered oil does not include used oil as defined in § 279.1 of these regulations.
- (14) Excluded scrap metal (processed scrap metal, unprocessed home scrap metal, and unprocessed prompt scrap metal) being recycled.
- (15) Shredded circuit boards being recycled provided that they are:
 - (i) Stored in containers sufficient to prevent a release to the environment prior to recovery; and
 - (ii) Free of mercury switches, mercury relays and nickel-cadmium batteries and lithium batteries.
- (16) Reserved
- (17) Spent materials (as defined in § 261.1) (other than hazardous wastes listed in Subpart D of this part) generated within the primary mineral processing industry from which minerals, acids, cyanide, water or other values are recovered by mineral processing or by beneficiation, provided that:
 - (i) The spent material is legitimately recycled to recover minerals, acids, cyanide, water or other values;
 - (ii) The spent material is not accumulated speculatively;
 - (iii) Except as provided in paragraph (a)(17)(iv) of this section, the spent material is stored in tanks, containers, or buildings meeting the following minimum integrity standards: a building must be an engineered structure with a floor, walls, and a roof all of which are made of non-earthen materials providing structural support (except smelter buildings may have partially earthen floors provided the spent material is stored on the non-earthen portion), and have a roof suitable for diverting rainwater away from the foundation; a tank must be free standing, not be a surface impoundment (as defined in § 260.10 of these regulations), and be manufactured of a material suitable for containment of its contents; a container must be free standing and be manufactured of a material suitable for containment of its contents. If tanks or containers contain any particulate which may be subject to wind dispersal, the owner/operator must operate these units in a manner which controls fugitive dust. Tanks, containers, and buildings must be designed, constructed and operated to prevent significant releases to the environment of these materials.

- (iv) The Regional Administrator or the State Director may make a site-specific determination, after public review and comment, that only solid mineral processing spent material may be placed on pads, rather than in tanks, containers, or buildings. Solid mineral processing spent materials do not contain any free liquid. The decision-maker must affirm that pads are designed, constructed and operated to prevent significant releases of the spent material into the environment. Pads must provide the same degree of containment afforded by the non-RCRA tanks, containers and buildings eligible for exclusion.
 - (A) The decision-maker must also consider if storage on pads poses the potential for significant releases via groundwater, surface water, and air exposure pathways. Factors to be considered for assessing the groundwater, surface water, air exposure pathways are: the volume and physical and chemical properties of the spent material, including its potential for migration off the pad; the potential for human or environmental exposure to hazardous constituents migrating from the pad via each exposure pathway, and the possibility and extent of harm to human and environmental receptors via each exposure pathway.
 - (B) Pads must meet the following minimum standards: be designed of nonearthen material that is compatible with the chemical nature of the mineral processing spent material, capable of withstanding physical stresses associated with placement and removal, have run on/runoff controls, be operated in a manner which controls fugitive dust, and have integrity assurance through inspections and maintenance programs.
 - (C) Before making a determination under this paragraph, the Regional Administrator or State Director must provide notice and the opportunity for comment to all persons potentially interested in the determination. This can be accomplished by placing notice of this action in major local newspapers, or broadcasting notice over local radio stations.
- (v) The owner or operator provides notice to the Regional Administrator or State Director, providing the following information: the types of materials to be recycled; the type and location of the storage units and recycling processes; and the annual quantities expected to be placed in land-based units. This notification must be updated when there is a change in the type of materials recycled or the location of the recycling process.
- (vi) For purposes of § 261.4(b)(7) of this section, mineral processing spent material must be the result of mineral processing and may not include any listed hazardous wastes. Listed hazardous wastes and characteristic hazardous wastes generated by non-mineral processing industries are not eligible for the conditional exclusion from the definition of solid waste.
- (18) Petrochemical recovered oil from an associated organic chemical manufacturing facility, where the oil is to be inserted into the petroleum refining process (SIC code 2911) along with normal petroleum refinery process streams, provided:
 - The oil is hazardous only because it exhibits the characteristic of ignitability (as defined in § 261.21) and/or toxicity for benzene (§ 261.24, waste code D018); and

- (ii) The oil generated by the organic chemical manufacturing facility is not placed on the land, or speculatively accumulated before being recycled into the petroleum refining process. An "associated organic chemical manufacturing facility" is a facility where the primary SIC code is 2869, but where operations may also include SIC codes 2821,2822, and 2865; and is physically co-located with a petroleum refinery; and where the petroleum refinery to which the oil being recycled is returned also provides hydrocarbon feedstocks to the organic chemical manufacturing facility. "Petrochemical recovered oil" is oil that has been reclaimed from secondary materials (i.e., sludges, byproducts, or spent materials, including wastewater) from normal organic chemical manufacturing operations, as well as oil recovered from organic chemical manufacturing processes.
- (19) Spent caustic solutions from petroleum refining liquid treating processes used as a feedstock to produce cresylic or naphthenic acid unless the material is placed on the land, or accumulated speculatively as defined in § 261.1(c).
- (20) Hazardous secondary materials used to make zinc fertilizers, provided that the following conditions specified are satisfied:
 - (i) Hazardous secondary materials used to make zinc micronutrient fertilizers must not be accumulated speculatively, as defined in § 261.1(d)(8).
 - (ii) Generators and intermediate handlers of zinc-bearing hazardous secondary materials that are to be incorporated into zinc fertilizers must:
 - (A) Submit a one-time notice to the Regional Administrator or State Director in whose jurisdiction the exclusion is being claimed, which contains the name, address and EPA ID number of the generator or intermediate handler facility, provides a brief description of the secondary material that will be subject to the exclusion, and identifies when the manufacturer intends to begin managing excluded, zinc-bearing hazardous secondary materials under the conditions specified in this paragraph (a)(20).
 - (B) Store the excluded secondary material in tanks, containers, or buildings that are constructed and maintained in a way that prevents releases of the secondary materials into the environment At a minimum, any building used for this purpose must be an engineered structure made of nonearthen materials that provide structural support, and must have a floor, walls and a roof that prevent wind dispersal and contact with rainwater. Tanks used for this purpose must be structurally sound and, if outdoors, must have roofs or covers that prevent contact with wind and rain. Containers used for this purpose must be kept closed except when it is necessary to add or remove material, and must be in sound condition. Containers that are stored outdoors must be managed within storage areas that:
 - (1) have containment structures or systems sufficiently impervious to contain leaks, spills and accumulated precipitation; and
 - (2) provide for effective drainage and removal of leaks, spills and accumulated precipitation; and
 - (3) prevent run-on into the containment system.

- (C) With each off-site shipment of excluded hazardous secondary materials, provide written notice to the receiving facility that the material is subject to the conditions of this paragraph (a)(20).
- (D) Maintain at the generator's or intermediate handlers's facility for no less than three years records of all shipments of excluded hazardous secondary materials. For each shipment these records must at a minimum contain the following information:
 - (1) Name of the transporter and date of the shipment;
 - (2) Name and address of the facility that received the excluded material, and documentation confirming receipt of the shipment; and
 - (3) Type and quantity of excluded secondary material in each shipment.
- (iii) Manufacturers of zinc fertilizers or zinc fertilizer ingredients made from excluded hazardous secondary materials must:
 - (A) Store excluded hazardous secondary materials in accordance with the storage requirements for generators and intermediate handlers, as specified in paragraph (a)(20)(ii)(B) of this section.
 - (B) Submit a one-time notification to the Regional Administrator or State Director that, at a minimum, specifies the name, address and EPA ID number of the manufacturing facility, and identifies when the manufacturer intends to begin managing excluded, zinc-bearing hazardous secondary materials under the conditions specified in this paragraph (a)(20).
 - (C) Maintain for a minimum of three years records of all shipments of excluded hazardous secondary materials received by the manufacturer, which must at a minimum identify for each shipment the name and address of the generating facility, name of transporter and date the materials were received, the quantity received, and a brief description of the industrial process that generated the material.
 - (D) Submit to the Regional Administrator or State Director an annual report that identifies the total quantities of all excluded hazardous secondary materials that were used to manufacture zinc fertilizers or zinc fertilizer ingredients in the previous year, the name and address of each generating facility, and the industrial process(s) from which they were generated.
- (iv) Nothing in this section preempts, overrides or otherwise negates the provision in § 262.11 of these regulations, which requires any person who generates a solid waste to determine if that waste is a hazardous waste.

- (v) Interim status and permitted storage units that have been used to store only zincbearing hazardous wastes prior to the submission of the one-time notice described in paragraph (a)(20)(ii)(A) of this section, and that afterward will be used only to store hazardous secondary materials excluded under this paragraph, are not subject to the closure requirements of Parts 264 and 265 of these regulations.
- (21) Zinc fertilizers made from hazardous wastes, or hazardous secondary materials that are excluded under paragraph (a)(20) of this section, provided that:
 - (i) The fertilizers meet the following contaminant limits:
 - (A) For metal contaminants:

Metal Constituent	Maximum allowable total concentration in fertilizer, per unit (1%) of zinc content
Arsenic	0.3 ppm
Cadmium	1.4 ppm
Chromium	0.6 ppm
Lead	2.8 ppm
Mercury	0.3 ppm

- (B) For dioxin contaminants the fertilizer must contain no more than eight (8) parts per trillion of dioxin, measured as toxic equivalent (TEQ).
- (ii) The manufacturer performs sampling and analysis of the fertilizer product to determine compliance with the contaminant limits for metals no less than every six months, and for dioxins no less than every twelve months. Testing must also be performed whenever changes occur to manufacturing processes or ingredients that could significantly affect the amounts of contaminants in the fertilizer product. The manufacturer may use any reliable analytical method to demonstrate that no constituent of concern is present in the product at concentrations above the applicable limits. It is the responsibility of the manufacturer to ensure that the sampling and analysis are unbiased, precise, and representative of the product(s) introduced into commerce.
- (iii) The manufacturer maintains for no less than three years records of all sampling and analyses performed for purposes of determining compliance with the requirements of paragraph (a)(21)(ii) of this section. Such records must at a minimum include:
 - (A) The dates and times product samples were taken, and the dates the samples were analyzed;
 - (B) The names and qualifications of the person(s) taking the samples;
 - (C) A description of the methods and equipment used to take the samples;
 - (D) The name and address of the laboratory facility at which analyses of the samples were performed;
 - (E) A description of the analytical methods used, including any cleanup and sample preparation methods; and

- (F) All laboratory analytical results used to determine compliance with the contaminant limits specified in this paragraph (a)(21).
- (b) **Solid wastes which are not hazardous wastes.** The following solid wastes are not hazardous wastes:
 - (1) Household waste, including household waste that has been collected, transported, stored, treated, disposed, recovered (e.g., refuse-derived fuel) or reused. "Household waste" means any waste material (including garbage, trash and sanitary wastes in septic tanks) derived from households (including single and multiple residences, hotels and motels, bunkhouses, ranger stations, crew quarters, campground, picnic grounds and day-use recreation areas.) A resource recovery facility managing municipal solid waste shall not be deemed to be treating, storing, disposing of, or otherwise managing hazardous wastes for purposes of regulation under this subtitle, if such facility:
 - (i) Receives and burns only
 - (A) Household waste (from single and multiple dwellings, hotels, motels, and other residential sources) and
 - (B) Solid waste from commercial or industrial sources that does not contain hazardous waste; and
 - (ii) Such facility does not accept hazardous wastes and the owner or operator of such facility has established contractual requirements or other appropriate notification or inspection procedures to assure that hazardous wastes are not received at or burned in such facility.
 - (2) Solid wastes generated by any of the following and which are returned to the soils as fertilizers:
 - (i) The growing and harvesting of agricultural crops.
 - (ii) The raising of animals, including animal manures.
 - (3) Mining overburden returned to the mine site.
 - (4) Fly ash waste, bottom ash waste, slag waste, and flue gas emission control waste generated primarily from the combustion of coal or other fossil fuels, except as provided by § 264.347 of these regulations for faculties that burn or process hazardous waste.
 - (5) Drilling fluids, produced waters, and other wastes associated with the exploration, development, or production of crude oil, natural gas or geothermal energy.
 - (6) (i) Wastes which fail the test for the Toxicity Characteristic because chromium is present or are listed in Subpart D due to the presence of chromium, which do not fail the test for the Toxicity Characteristic for any other constituent or are not listed due to the presence of any other constituent, and which do not fail the test for any other characteristic, if it is shown by a waste generator or by waste generators that:
 - (A) The chromium in the waste is exclusively (or nearly exclusively) trivalent chromium; and

- (B) The waste is generated from an industrial process which uses trivalent chromium exclusively (or nearly exclusively) and the process does not generate hexavalent chromium; and
- (C) The waste is typically and frequently managed in non-oxidizing environments.
- (ii) Specific wastes which meet the standard in paragraphs (b)(6)(i)(A),(B) and (C) (so long as they do not fail the test for the Toxicity Characteristic for any other constituent, and do not exhibit any other characteristic) are:
 - (A) Chrome (blue) trimmings generated by the following subcategories of the leather tanning and finishing industry; hair pulp/chrome tan/retan/wet finish; hair save/chrome tan/retan/wet finish; retan/wet finish; no beamhouse; through-the-blue; and shearling.
 - (B) Chrome (blue) shavings generated by the following subcategories of the leather tanning and finishing industry: hair pulp/chrome tan/retan/wet finish; hair save/chrome tan/retan/wet finish; retan/wet finish; no beamhouse; through-the-blue; and shearling.
 - (C) Buffing dust generated by the following subcategories of the leather tanning and finishing industry, hair pulp/chrome tan/retan/wet finish; hair save/chrome tan/retan/wet finish; retan/wet finish; no beamhouse; through-the-blue.
 - (D) Sewer screenings generated by the following subcategories of the leather tanning and finishing industry: hair pulp/chrome tan/retan/wet finish; hair save/chrome tan/retan/wet finish; retan/wet finish; no beamhouse; through-the-blue; and shearling.
 - (E) Wastewater treatment sludges generated by the following subcategories of the leather tanning and finishing industry, hair pulp/chrome tan/retan/wet finish; hair save/chrome tan/retan/wet finish; retan/wet finish; no beamhouse; through-the-blue; and shearling.
 - (F) Wastewater treatment sludges generated by the following subcategories of the leather tanning and finishing industry: hair pulp/chrome tan/retan/wet finish; hair save/chrome tan/retan/wet finish; and throughthe-blue.
 - (G) Waste scrap leather from the leather tanning industry, the shoe manufacturing industry, and other leather product manufacturing industries.
 - (H) Wastewater treatment sludges from the production of TiO₂ pigment using chromium-bearing ores by the chloride process.
- (7) Solid waste from the extraction, beneficiation and processing of ores and minerals (including coal, phosphate rock and overburden from the mining of uranium ore), except as provided by § 264.347 of these regulations for facilities that burn or process hazardous waste.

- (i) For purposes of § 261.4(b)(7) beneficiation of ores and minerals is restricted to the following activities: crushing; grinding; washing; dissolution; crystallization; filtration; sorting; sizing; drying; sintering; pelletizing; briquetting; calcining to remove water and/or carbon dioxide; roasting, autoclaving, and/or chlorination in preparation for leaching (except where the roasting (and/or autoclaving and/or chlorination)/leaching sequence produces a final or intermediate product that does not undergo further beneficiation or processing); gravity concentration; magnetic separation; electrostatic separation; flotation; ion exchange; solvent extraction; electrowinning; precipitation; amalgamation; and heap, dump, vat, tank, and in situ leaching.
- (ii) For the purposes of § 261.4(b)(7), solid waste from the processing of ores and minerals includes only the following wastes as generated:
 - (A) Slag from primary copper processing;
 - (B) Slag from primary lead processing;
 - (C) Red and brown muds from bauxite refining;
 - (D) Phosphogypsum from phosphoric acid production;
 - (E) Slag from elemental phosphorus production;
 - (F) Gasifier ash from coal gasification;
 - (G) Process wastewater from coal gasification;
 - (H) Calcium sulfate wastewater treatment plant sludge from primary copper processing;
 - (I) Slag tailings from primary copper processing;
 - (J) Fluorogypsum from hydrofluoric acid production;
 - (K) Process wastewater from hydrofluoric acid production;
 - (L) Air pollution control dust/sludge from iron blast furnaces;
 - (M) Iron blast furnace slag;
 - (N) Treated residue from roasting/leaching of chrome ore;
 - (O) Process wastewater from primary magnesium processing by the anhydrous process;
 - (P) Process wastewater from phosphoric acid production;
 - (Q) Basic oxygen furnace and open hearth furnace air pollution control dust/sludge from carbon steel production;
 - (R) Basic oxygen furnace and open hearth furnace slag from carbon steel production;
 - (S) Chloride process waste solids from titanium tetrachloride production;

- (T) Slag from primary zinc processing.
- (iii) A residue derived from co-processing mineral processing secondary materials with normal beneficiation raw materials or with normal mineral processing raw materials remains excluded under paragraph (b) of this section if the owner or operator:
 - (A) Processes at least 50 percent by weight normal beneficiation raw materials or normal mineral processing raw materials; and
 - (B) Legitimately reclaims the secondary mineral processing materials.
- (8) Cement kiln dust waste, except as provided by § 264.347 of these regulations for facilities that burn or process hazardous waste.
- (9) Solid waste which consists of discarded arsenical-treated wood or wood products which fails the test for the Toxicity Characteristic for Hazardous Waste Codes D004 through D017 and which is not a hazardous waste for any other reason if the waste is generated by persons who utilize the arsenical-treated wood and wood products for these materials' intended end use.
- (10) Petroleum-contaminated media and debris that fail the test for the Toxicity Characteristic of § 261.24 (Hazardous Waste Codes D018 through D043 only) and are subject to the corrective action regulations under 40 CFR Part 280.
- (11) RESERVED
- (12) Used chlorofluorocarbon refrigerants from totally enclosed heat transfer equipment, including mobile air conditioning systems, mobile refrigeration, and commercial and industrial air conditioning and refrigeration systems that use chlorofluorocarbons as the heat transfer fluid in a refrigeration cycle, provided the refrigerant is reclaimed for further use.
- (13) Non-terne plated used oil filters that are not mixed with wastes listed in Subpart D of this part if these oil filters have been gravity hot-drained using one of the following methods:
 - (i) Puncturing the filter anti-drain back valve or the filter dome end and hot-draining;
 - (ii) Hot-draining and crushing;
 - (iii) Dismantling and hot-draining; or
 - (iv) Any other equivalent hot-draining method which will remove used oil.
- (14) Used oil re-refining distillation bottoms that are used as feedstock to manufacture asphalt products.
- (15) Leachate or gas condensate collected from landfills where certain solid wastes have been disposed, provided that:
 - (i) The solid wastes disposed would meet one or more of the listing descriptions for Hazardous Waste Codes K169, K170, K171, K172, K174, K175, K176, K177, K178 and K181 if these wastes had been generated after the effective date of the listing;

- (ii) The solid wastes described in paragraph (b)(15)(i) of this section were disposed prior to the effective date of the listing;
- (iii) The leachate or gas condensate do not exhibit any characteristic of hazardous waste nor are derived from any other listed hazardous waste;
- (iv) Discharge of the leachate or gas condensate, including leachate or gas condensate transferred from the landfill to a POTW by truck, rail, or dedicated pipe, is subject to regulation under sections 307(b) or 402 of the Clean Water Act.
- (v) As of February 13, 2001, leachate or gas condensate derived from K169-K172 is no longer exempt if it is stored or managed in a surface impoundment prior to discharge. As of November 21, 2003, leachate or gas condensate derived from K176, K177, and K178 is no longer exempt if it is stored or managed in a surface impoundment prior to discharge. After February 26, 2007, leachate or gas condensate derived from K181 will no longer be exempt if it is stored or managed in a surface impoundment prior to discharge. There is one exception: if the surface impoundment is used to temporarily store leachate or gas condensate in response to an emergency situation (e.g., shutdown of wastewater treatment system), provided the impoundment has a double liner, and provided the leachate or gas condensate is removed from the impoundment and continues to be managed in compliance with the conditions of this paragraph (b)(15)(v) after the emergency ends.
- (c) Hazardous wastes which are exempted from certain regulations. A hazardous waste which is generated in a product or raw material storage tank, a product or raw material transport vehicle or vessel, a product or raw material pipeline, or in a manufacturing process unit or an associated non-waste-treatment-manufacturing unit, is not subject to regulation under Parts 262 through 266, Part 268 and Part 100 or to the notification requirements of Part 99 of these regulations until it exits the unit in which it was generated, unless the unit is a surface impoundment, or unless the hazardous waste remains in the unit more than 90 days after the unit ceases to be operated for manufacturing, or for storage or transportation of product or raw materials.

(d) Samples.

- (1) Except as provided in paragraphs (d)(2) and (4) of this section, a sample of solid waste or a sample of water, soil, or air, which is collected for the sole purpose of testing to determine its characteristics or composition, is not subject to any requirements of this part or Parts 262 through 266, Part 268 or Part 100 or to the notification requirements of Part 99 of these regulations when:
 - (i) The sample is being transported to a laboratory for the purpose of testing: or
 - (ii) The sample is being transported back to the sample collector after testing; or
 - (iii) The sample is being stored by the sample collector before transport to a laboratory for testing; or
 - (iv) The sample is being stored in a laboratory before testing; or
 - (v) The sample is being stored in a laboratory after testing but before it is returned to the sample collector; or

- (vi) The sample is being stored temporarily in the laboratory after testing for a specific purpose (for example, until conclusion of a court case or enforcement action where further testing of the sample may be necessary)
- (2) In order to qualify for the exemption in paragraph (d)(1)(i) and (ii) of this section, a sample collector shipping samples to a laboratory and laboratory returning samples to a sample collector must:
 - (i) Comply with U.S. Department of Transportation (DOT), U.S. Postal Service (USPS), or any other applicable shipping requirements; or
 - (ii) Comply with the following requirements if the sample collector determines that DOT, USPS, or other shipping requirements do not apply to the shipment of the sample:
 - (A) Assure that the following information accompanies the sample:
 - (1) The sample collector's name, mailing address, and telephone number;
 - (2) The laboratory's name, mailing address, and telephone number;
 - (3) The quantity of the sample;
 - (4) The date of shipment; and
 - (5) A description of the sample.
 - (B) Package the sample so that it does not leak, spill, or vaporize from its packaging.
- (3) This exemption does not apply if the laboratory determines that the waste is hazardous but the laboratory is no longer meeting any of the conditions stated in paragraph (d)(1) of this section.
- (4) In order to qualify for the exemption in paragraphs (d)(1)(i) and (ii) of this section, the mass of a sample that will be exported to a foreign laboratory or that will be imported to a U.S. laboratory from a foreign source must additionally not exceed 25 kg.

(e) Treatability Study Samples.

- (1) Except as provided in paragraphs (e)(2) and (e)(4) of this section, persons who generate or collect samples for the purpose of conducting treatability studies as defined in § 260.10, are not subject to any requirement of Parts 261 through 263 of these regulations or to the notification requirements of Section 99 of the Colorado Hazardous Waste Regulations, nor are such samples included in the quantity determinations of § 262.13 when:
 - (i) The sample is being collected and prepared for transportation by the generator or sample collector; or
 - (ii) The sample is being accumulated or stored by the generator or sample collector prior to transportation to a laboratory or testing facility; or

- (iii) The sample is being transported to the laboratory or testing facility for the purpose of conducting a treatability study.
- (2) The exemption in paragraph (e)(1) of this section is applicable to samples of hazardous waste being collected and shipped for the purpose of conducting treatability studies provided that:
 - (i) The generator or sample collector uses (in "treatability studies") no more than 10,000 kg of media contaminated with non-acute hazardous waste, 1000 kg of non-acute hazardous waste other than contaminated media, 1 kg of acute hazardous waste, 2500 kg of media contaminated with acute hazardous waste for each process being evaluated for each generated waste stream; and
 - (ii) The mass of each sample shipment does not exceed 10,000 kg; the 10,000 kg quantity may be all media contaminated with non-acute hazardous waste, or may include 2500 kg of media contaminated with acute hazardous waste, 1000 kg of hazardous waste, and 1 kg of acute hazardous waste; and
 - (iii) The sample must be packaged so that it will not leak, spill, or vaporize from its packaging during shipment and the requirements of paragraph A or B of this subparagraph are met.
 - (A) The transportation of each sample shipment complies with U.S. Department of Transportation (DOT), U.S. Postal Service (USPS), or any other applicable shipping requirements; or
 - (B) If the DOT, USPS, or other shipping requirements do not apply to the shipment of the sample, the following information must accompany the sample:
 - (1) The name, mailing address, and telephone number of the originator of the sample;
 - (2) The name, address, and telephone number of the facility that will perform the treatability study;
 - (3) The quantity of the sample;
 - (4) The date of shipment; and
 - (5) A description of the sample, including its EPA Hazardous Waste Number.
 - (iv) The sample is shipped to a laboratory or testing facility which is exempt under § 261.4(f) or has an appropriate RCRA permit or interim status.
 - (v) The generator or sample collector maintains the following records for a period ending 3 years after completion of the treatability study:
 - (A) Copies of the shipping documents;
 - (B) A copy of the contract with the facility conducting the treatability study;
 - (C) Documentation showing:

- (1) The amount of waste shipped under this exemption;
- (2) The name, address, and EPA identification number of the laboratory or testing facility that received the waste;
- (3) The date the shipment was made; and
- (4) Whether or not unused samples and residues were returned to the generator.
- (vi) The generator reports the information required under paragraph (e)(2)(v)(C) of this section in its biennial report.
- (3) The Director may grant requests on a case-by-case basis for up to an additional two years for treatability studies involving bioremediation. The Director may grant requests on a case-by-case basis for quantity limits in excess of those specified in paragraphs (e)(2)(i) and (ii) and (f)(4) of this section, for up to an additional 5000 kg of media contaminated with non-acute hazardous waste, 500 kg of non-acute hazardous waste, 2500 kg of media contaminated with acute hazardous waste and 1 kg of acute hazardous waste:
 - (i) In response to requests for authorization to ship, store and conduct treatability studies on additional quantities in advance of commencing treatability studies. Factors to be considered in reviewing such requests include the nature of the technology, the type of process (e.g., batch versus continuous), size of the unit undergoing testing (particularly in relation to scale-up considerations), the time/quantity of material required to reach steady state operating conditions, or test design considerations such as mass balance calculations.
 - (ii) In response to requests for authorization to ship, store and conduct treatability studies on additional quantities after initiation or completion of initial treatability studies, when: There has been an equipment or mechanical failure during the conduct of a treatability study, there is a need to verify the results of a previously conducted treatability study, there is a need to study and analyze alternative techniques within a previously evaluated treatment process; or there is a need to do further evaluation of an ongoing treatability study to determine final specifications for treatment.
 - (iii) The additional quantities and timeframes allowed in paragraph (e)(3)(i) and (ii) of this section are subject to all the provisions in paragraphs (e)(1) and (e)(2) (iii) through (vi) of this section. The generator or sample collector must apply to the Director and provide in writing the following information:
 - (A) The reason why the generator or sample collector requires additional time or quantity of sample for treatability study evaluation and the additional time or quantity needed;
 - (B) Documentation accounting for all samples of hazardous waste from the waste stream which have been sent for or undergone treatability studies including the date each previous sample from the waste stream was shipped, the quantity of each previous shipment; the laboratory or testing facility to which it was shipped, what treatability study processes were conducted on each sample shipped, and the available results on each treatability study;

- (C) A description of the technical modifications or change in specifications which will be evaluated and the expected results;
- (D) If such further study is being required due to equipment or mechanical failure, the applicant must include information regarding the reason for the failure or breakdown and also include what procedures or equipment improvements have been made to protect against further breakdowns; and
- (E) Such other information that the Director considers necessary.
- (4) In order to qualify for the exemption in paragraph (e)(1)(i) of this section, the mass of a sample that will be exported to a foreign laboratory or testing facility, or that will be imported to a U.S. laboratory or testing facility from a foreign source must additionally not exceed 25 kg.
- (f) Samples Undergoing Treatability Studies at Laboratories and Testing Facilities.

Samples undergoing treatability studies and the laboratory or testing facility conducting such treatability studies (to the extent such facilities are not otherwise subject to Colorado Hazardous Waste Act requirements) are not subject to any requirement of Parts 261 through 268, and Part 100, or to the notification requirements of Part 99 of the Colorado Hazardous Waste Regulations provided that the conditions of paragraphs (f)(1) through (14) of this section are met. A mobile treatment unit (MTU) may qualify as a testing facility subject to paragraphs (f)(1) through (14) of this section. Where a group of MTUs are located at the same site, the limitations specified in (f)(1) through (14) of this section apply to the entire group of MTUs collectively as if the group were one MTU.

- (1) No less than 45 days before conducting treatability studies, or receiving samples of hazardous waste to be used in treatability studies, the testing facility submits the following information in writing to the Director, Hazardous Materials and Waste Management Division, Colorado Department of Public Health and Environment:
 - (A) Facility name, location, and mailing address;
 - (B) Facility EPA ID number;
 - (C) Facility contact person, title, and phone;
 - (D) Whether or not the facility has ever submitted a Part A or Part B application;
 - (E) A list of existing environmental permits held by the facility;
 - (F) The general nature of the facility operation;
- (2) The laboratory or testing facility conducting the treatability study obtains an EPA identification number prior to receiving waste samples or conducting treatability studies.
- (3) No more than a total of 10,000 kg of "as received" media contaminated with non-acute hazardous waste, 2500 kg of media contaminated with acute hazardous waste or 250 kg of other "as received" hazardous waste is subject to initiation of treatment in all treatability studies in any single day. "As received" waste refers to the waste as received in the shipment from the generator or sample collector.

- (4) The quantity of "as received" hazardous waste stored at the facility for the purpose of evaluation in treatability studies does not exceed 10,000 kg, the total of which can include 10,000 kg of media contaminated with non-acute hazardous waste, 2500 kg of media contaminated with acute hazardous waste, 1000 kg of non-acute hazardous wastes other than contaminated media, and 1 kg of acute hazardous waste. This quantity limitation does not include treatment materials (including nonhazardous solid waste) added to "as received" hazardous waste.
- (5) Storage of waste samples and treatability study residues must meet the following minimum conditions:
 - (i) Wastes must be stored and managed in a way to prevent any release into the environment and must not pose a human health hazard.
 - (ii) Any waste material spilled or released must be contained, collected, and disposed of properly within 24 hours.
 - (iii) Container storage areas must be designed and operated such that:
 - (A) Containers or liners are compatible with the stored waste;
 - (B) Containers are protected from any standing liquids;
 - (C) Containers remain closed except when it is necessary to add or remove waste;
 - (D) Contents of containers which are leaking or in poor condition must be transferred to a container in good condition or otherwise properly managed.
 - (iv) Tank systems must be designed and operated such that:
 - (A) The tank system integrity is sufficient to ensure that the tank will not leak, collapse, rupture, or fail while containing waste;
 - (B) Any release is detected, contained, collected and removed within 24 hours;
 - (C) Appropriate controls and practices are in place to prevent spills and overflows.
 - (v) Ignitable and reactive waste must be protected from any material or conditions that may cause the waste to ignite or react.
 - (vi) Contact between incompatible wastes must be prevented.
- (6) No more than 90 days have elapsed since the treatability study for the sample was completed, or no more than one year (two years for treatability studies involving bioremediation) have elapsed since the generator or sample collector shipped the sample to the laboratory or testing facility, whichever date first occurs. Up to 500 kg of treated material from a particular waste stream from treatability studies may be archived for future evaluation up to five years from the date of initial receipt. Quantities of materials archived are counted against the total storage limit for the facility.

- (7) The treatability study does not involve the placement of hazardous waste on the land or open burning of hazardous waste.
- (8) The facility maintains records for 3 years following completion of each study that show compliance with the treatment rate limits and the storage time and quantity limits. The following specific information must be included for each treatability study conducted:
 - (i) The name, address, and EPA identification number of the generator and the name of the sample collector of each waste sample;
 - (ii) The date the shipment was received;
 - (iii) The quantity of waste accepted;
 - (iv) The quantity of "as received" waste in storage each day;
 - (v) The date the treatment study was initiated and the amount of "as received" waste introduced to treatment each day,
 - (vi) The date the treatability study was concluded;
 - (vii) The date any unused sample or residues generated from the treatability study were returned to the generator or sample collector or, if sent to a designated facility, the name of the facility and the EPA identification number.
- (9) The facility keeps, on-site, a copy of the treatability study contract and all shipping papers associated with the transport of treatability study samples to and from the facility for a period ending 3 years from the completion date of each treatability study.
- (10) The facility prepares and submits a report to the Director by March 15 of each year that estimates the number of studies and the amount of waste expected to be used in treatability studies during the current year, and includes the following information for the previous calendar year:
 - (i) The name, address, and EPA identification number of the facility conducting the treatability studies;
 - (ii) The types (by process) of treatability studies conducted;
 - (iii) The names and addresses of persons for whom studies have been conducted (including their EPA identification numbers);
 - (iv) The total quantity of waste in storage each day;
 - (v) The quantity and types of waste subjected to treatability studies;
 - (vi) When each treatability study was conducted;
 - (vii) The final disposition of residues and unused sample from each treatability study;
 - (viii) A summary of spills or releases of waste material to the environment.

- (11) The facility determines whether any unused sample or residues generated by the treatability study are hazardous waste under § 261.3 and, if so, are subject to Parts 261 through 268, and Part 100 of these regulations, and all applicable Federal regulations under HSWA, unless the residues and unused samples are returned to the sample originator under the § 261.4(e) exemption.
- (12) The facility notifies the Director by letter when the facility is no longer planning to conduct any treatability studies at the site.
- (13) The facility submits a certified statement to the Director specifying that all waste materials from treatability studies have been removed from the facility, and that no contamination remains on-site.
- (14) The facility provides adequate personnel training to ensure facility regulatory compliance, effective emergency response, and prevent undue worker exposure to hazardous waste.
- (g) **Dredged material that is not a hazardous waste.** Dredged material that is subject to the requirements of a permit that has been issued under 404 of the Federal Water Pollution Control Act (33 U.S.C.1344) or section 103 of the Marine Protection, Research, and Sanctuaries Act of 1972 (33 U.S.C. 1413) is not a hazardous waste. For this paragraph (g), the following definitions apply:
 - (1) The term dredged material has the same meaning as defined in 40 CFR 232.2;
 - (2) The term permit means:
 - (i) A permit issued by the U.S. Army Corps of Engineers (Corps) or an approved State under section 404 of the Federal Water Pollution Control Act (33 U.S.C. 1344);
 - (ii) A permit issued by the Corps under section 103 of the Marine Protection, Research, and Sanctuaries Act of 1972 (33 U.S.C. 1413); or
 - (iii) In the case of Corps civil works projects, the administrative equivalent of the permits referred to in paragraphs (g)(2)(i) and (ii) of this section, as provided for in Corps regulations (for example, see 33 CFR 336.1, 336.2, and 337.6).
- (h) Reserved.
- (i) Reserved.
- (j) Airbag waste. (1) Airbag waste at the airbag waste handler or during transport to an airbag waste collection facility or designated facility is not subject to regulation under Parts 262 through 268, or Part 100 of these regulations, and is not subject to the notification requirements of Part 99 of these regulations provided that:
 - (i) The airbag waste is accumulated in a quantity of no more than 250 airbag modules or airbag inflators, for no longer than 180 days;
 - (ii) The airbag waste is packaged in a container designed to address the risk posed by the airbag waste and labeled "Airbag Waste–Do Not Reuse";
 - (iii) The airbag waste is sent directly to either:

- (A) An airbag waste collection facility in the United States under the control of a vehicle manufacturer or their authorized representative, or under the control of an authorized party administering a remedy program in response to a recall under the National Highway Traffic Safety Administration, or
- (B) A designated facility as defined in § 260.10 of these regulations;
- (iv) The transport of the airbag waste complies with all applicable U.S. Department of Transportation regulations in 49 CFR part 171 through 180 during transit. 49 CFR parts 171 through 180 are incorporated by reference to include those versions in effect as of the date this regulation was adopted, and does not include later amendments to the incorporated material. Materials incorporated by reference are available for public inspection during normal business hours from the Hazardous Materials and Waste Management Division, 4300 Cherry Creek Drive South, Denver, CO 80246. Copies may also be found at the Environmental Protection Agency through the Government Printing Office at https://www.govinfo.gov/app/collection/cfr/; and
- (v) The airbag waste handler maintains at the handler facility for no less than three (3) years records of all off-site shipments of airbag waste and all confirmations of receipt from the receiving facility. For each shipment, these records must, at a minimum, contain the name of the transporter and date of the shipment; name and address of receiving facility; and the type and quantity of airbag waste (i.e., airbag modules or airbag inflators) in the shipment. Confirmations of receipt must include the name and address of the receiving facility; the type and quantity of the airbag waste (i.e., airbag modules and airbag inflators) received; and the date which it was received. Shipping records and confirmations of receipt must be made available for inspection and may be satisfied by routine business records (e.g., electronic or paper financial records, bills of lading, copies of DOT shipping papers, or electronic confirmations of receipt).
- (2) Once the airbag waste arrives at an airbag waste collection facility or designated facility, it becomes subject to all applicable hazardous waste regulations, and the facility receiving airbag waste is considered the hazardous waste generator for the purposes of the hazardous waste regulations and must comply with the requirements of Part 262 of these regulations.
- (3) Reuse in vehicles of defective airbag modules or defective airbag inflators subject to a recall under the National Highway Traffic Safety Administration is considered sham recycling and prohibited under § 261.2(g) of these regulations.

§ 261.5 Reserved

§ 261.6 Requirements for recyclable materials.

- (a) (1) Hazardous wastes that are recycled are subject to the requirements for generators, transporters, and storage facilities of paragraphs (b) and (c) of this section, except for the materials listed in paragraphs (a)(2) and (a)(3) of this section. Hazardous wastes that are recycled will be known as "recyclable materials."
 - (2) The following recyclable materials are not subject to the requirements of this section but are regulated under Part 264, Subpart O; Part 265, Subpart H; Part 265, Subpart O; or Subparts C through M of Part 267 of these regulations and all applicable provisions in Parts 268 and 100 of these regulations:

- (i) Recyclable materials used in a manner constituting disposal (See Part 267, Subpart C):
- (ii) Hazardous wastes burned for energy recovery in boilers and industrial furnaces that are not regulated under Subpart O of Part 264 or 265 of these regulations;
- (iii) Recyclable materials from which precious metals are reclaimed (see Part 267, Subpart F);
- (iv) Spent lead acid batteries that are being reclaimed (see Part 267, Subpart G).
- (3) The following recyclable materials are not subject to regulation under Parts 262 through 268 or Part 100 of these regulations, and are not subject to the notification requirements of Part 99 of these regulations:
 - (i) Industrial ethyl alcohol that is reclaimed except that exports and imports of such recyclable materials must comply with the requirements of Part 262, Subpart H.
 - (A) A person initiating a shipment for reclamation in a foreign country, and any intermediary arranging for the shipment, must comply with the requirements applicable to a primary exporter in § § 262.53, 262.56 (a)(1) through (4), (6), and (b), and 262.57, export such materials only upon consent of the receiving country and in conformance with the EPA Acknowledgment of Consent to the shipment to the transporter transporting the shipment for export;
 - (B) Transporters transporting a shipment for export may not accept a shipment if he/she knows the shipment does not conform to the EPA Acknowledgment of Consent, must ensure that a copy of the EPA Acknowledgment of Consent accompanies the shipment and must ensure that it is delivered to the facility designated by the persons initiating the shipment.
 - (ii) Scrap metal that is not excluded under § 261.4(a)(14);
 - (iii) Fuels produced from the refining of oil-bearing hazardous wastes along with normal process streams at a petroleum refining facility if such wastes result from normal petroleum refining, production, and transportation practices (this exemption does not apply to fuels produced from oil recovered from oil-bearing hazardous waste, where such recovered oil is already excluded under § 261.4(a)(13);
 - (iv) (A) Hazardous waste fuel produced from oil-bearing hazardous waste from petroleum refining, production, or transportation practices, or produced from oil reclaimed from such hazardous wastes, where such hazardous wastes are reintroduced into a process that does not use distillation or does not produce products from crude oil so long as the resulting fuel meets the used oil specification under § 279.11 of these regulations and so long as no other hazardous wastes are used to produce the hazardous waste fuel;

- (B) Hazardous waste fuel produced from oil-bearing hazardous waste from petroleum refining production, and transportation practices, where such hazardous wastes are reintroduced into a refining process after a point at which contaminants are removed, so long as the fuel meets the used oil fuel specification under § 279.11 of these regulations; and
- (C) Oil reclaimed from oil-bearing hazardous wastes from petroleum refining, production, and transportation practices, which reclaimed oil is burned as a fuel without reintroduction to a refining process, so long as the reclaimed oil meets the used oil fuel specification under § 279.11 of these regulations.
- (4) Used oil that is recycled and is also a hazardous waste solely because it exhibits a hazardous characteristic is not subject to the requirements of Parts 260 through 268 of these regulations, but is regulated under Part 279 of these regulations. Used oil that is recycled includes any used oil which is reused, following its original use, for any purpose (including the purpose for which the oil was originally used). Such term includes, but is not limited to, oil which is re-refined, reclaimed, burned for energy recovery, or reprocessed.
- (5) Hazardous waste that is exported or imported for purpose of recovery is subject to the requirements of Part 262, Subpart H.
- (b) Generators and transporters of recyclable materials are subject to the applicable requirements of Parts 262 and 263 of these regulations and the notification requirements of Part 99, except as provided in paragraph (a) of this section.
- (c) Owners or operators of facilities that store recyclable materials before they are recycled are regulated under all applicable provisions of Subparts A through L, and AA through DD of Parts 264 and 265, Parts 266 through 268 and Part 100 of these regulations and the notification requirements of Part 99 of these regulations, except as provided in paragraph (a) of this section. (The recycling process itself is exempt from regulation except as provided in § 261.6(d).)
 - Owners or operators of facilities that recycle recyclable materials without storing them before they are recycled are subject to the following requirements, except as provided in paragraph (a) of this section:
 - (i) Notification requirements of Part 99 of these regulations;
 - (ii) Sections 265.71 and 265.72 (dealing with the use of the manifest and manifest discrepancies) of these regulations.
 - (iii) Section 261.6(d) of these regulations.
 - (iv) Section 265.75 of these regulations (biennial reporting requirements).
- (d) Owners or operators of facilities subject to RCRA permitting requirements with hazardous waste management units that recycle hazardous wastes are subject to the requirements of subparts AA and BB of Part 264 or 265 of these regulations.

§ 261.7 Residues of hazardous waste in empty containers.

- (a) (1) Any hazardous waste remaining in either (i) an empty container or (ii) an inner liner removed from an empty container, as defined in paragraph (b) of this section, is not subject to regulation under Parts 261 through 266, Part 268 or Part 100 or to the notification requirements of Part 99 of these regulations.
 - (2) Any hazardous waste in either (i) a container that is not empty or (ii) an inner liner removed from a container that is not empty, as defined in paragraph (b) of this section is subject to regulation under Parts 261 through 266, Part 268, and Part 100 of these regulations and the notification requirements of Part 99 of these regulations.
- (b) (1) A container or an inner liner removed from a container that has held any hazardous waste, except a waste that is a compressed gas or that is identified as an acute hazardous waste listed in § § 261.31, 261.32, or 261.33(e) of these regulations is empty if:
 - (i) All wastes have been removed that can be removed using the practices commonly employed to remove materials from that type of container, e.g., pouring, pumping, and aspirating, and
 - (ii) No more than 2.5 centimeters (one inch) of residue remain on the bottom of the container or inner liner or,
 - (iii) (A) No more than 3 percent by weight of the total capacity of the container remains in the container or inner liner if the container is less than or equal to 119 gallons in size, or
 - (B) No more than 0.3 percent by weight of the total capacity of the container remains in the container or inner liner if the container is greater than 119 gallons in size.
 - (2) A container that has held a hazardous waste that is a compressed gas is empty when the pressure in the container approaches atmospheric.
 - (3) A container or an inner liner removed from a container that has held an acute hazardous waste listed in § § 261.31, 261.32, or 261.33(e) is empty if:
 - The container or inner liner has been triple rinsed using a solvent capable of removing the commercial chemical product or manufacturing chemical intermediate;
 - (ii) The container or inner liner has been cleaned by another method that has been shown in the scientific literature, or by tests conducted by the generator, to achieve equivalent removal; or
 - (iii) In the case of a container, the inner liner that prevented contact of the commercial chemical product or manufacturing chemical intermediate with the container, has been removed.
- (c) Containers of hazardous waste pharmaceuticals are subject to § 267.507 for determining when they are considered empty, in lieu of this section, except as provided by § 267.507(c) and (d).

§ 261.8 PCB Wastes Regulated Under Toxic Substance Control Act.

The disposal of PCB-containing dielectric fluid and electric equipment containing such fluid authorized for use and regulated under CFR Part 761 and that are hazardous only because they fail the test for the Toxicity Characteristic (Hazardous Waste Codes D018 through DO43 only) are exempt from regulation under Parts 261 through 265, and Parts 268 and 100 of these regulations and CFR Part 124, and the notification requirements of section 3010 of RCRA.

§ 261.9 Requirements for Universal Waste.

- (a) The wastes listed in this section are exempt from regulation under Parts 262 through 268, and Part 100 of these regulations except as specified in Part 273 of these regulations. If a waste handler chooses to manage its universal waste under the Part 273 regulations, but fails to meet those requirements, the waste handler remains subject to, and must comply with, all applicable requirements of the Colorado Hazardous Waste Regulations (6 CCR 1007-3), Parts 260 through 268, 99 and 100. The wastes listed in this section are subject to regulation under Part 273:
 - (1) Batteries as described in § 273.2(a) of these regulations;
 - (2) Pesticides as described in § 273.2(b) of these regulations;
 - (3) Mercury-containing devices as described in § 273.2(c) of these regulations;
 - (4) Aerosol cans as described in § 273.2(d) of these regulations;
 - (5) Lamps as described in § 273.2(e) of these regulations; and
 - (6) Electronic devices and electronic components as described in § 273.2(f) of these regulations.

Subpart B - Criteria for Identifying the Characteristics of Hazardous Waste and for Listing Hazardous Waste

§ 261.10 Criteria for identifying the characteristics of hazardous waste.

- (a) The Department shall identify and define a characteristic of hazardous waste in Subpart C only upon determining that:
 - (1) A solid waste that exhibits the characteristic may:
 - (i) Cause, or significantly contribute to, an increase in mortality or an increase in serious irreversible, or incapacitating reversible, illness; or
 - (ii) Pose a substantial present or potential hazard to human health or the environment when it is improperly treated, stored, transported, disposed of or otherwise managed; and
 - (2) The characteristic can be:
 - (i) Measured by an available standardized test method which is reasonably within the capability of generators of solid waste or private sector laboratories that are available to serve generators of solid waste; or
 - (ii) Reasonably detected by generators of solid waste through their knowledge of their waste.

§ 261.11 Criteria for listing hazardous waste.

- (a) The Department shall list a solid waste as a hazardous waste only upon determining that the solid waste meets one of the following criteria:
 - (1) It exhibits any of the characteristics of hazardous waste identified in Subpart C.
 - (2) It has been found to be fatal to humans in low doses or, in the absence of data on human toxicity, it has been shown in studies to have an oral LD 50 toxicity (rat) of less than 50 milligrams per kilogram, an inhalation LC 50 toxicity (rat) of less than 2 milligrams per liter, or a dermal LD 50 toxicity (rabbit) of less than 200 milligrams per kilogram or is otherwise capable of causing or significantly contributing to an increase in serious irreversible, or incapacitating reversible, illness. (Waste listed in accordance with these criteria will be designated Acute Hazardous Waste.)
 - (3) It contains any of the toxic constituents listed in Appendix VIII and after considering the following factors, the Director concludes that the waste is capable of posing a substantial present or potential hazard to human health or the environment when improperly treated, stored, transported or disposed of, or otherwise managed:
 - (i) The nature of the toxicity presented by the constituent.
 - (ii) The concentration of the constituent in the waste.
 - (iii) The potential of the constituent or any toxic degradation product of the constituent to migrate from the waste into the environment under the types of improper management considered in paragraph (a)(3)(vii) of this section.
 - (iv) The persistence of the constituent or any toxic degradation product of the constituent.
 - (v) The potential for the constituent or any toxic degradation product of the constituent to degrade into nonharmful constituents and the rate of degradation.
 - (vi) The degree to which the constituent or any degradation product of the constituent bioaccumulates in ecosystems.
 - (vii) The plausible types of improper management to which the waste could be subjected.
 - (viii) The quantities of the waste generated at individual generation sites or on a regional or national basis.
 - (ix) The nature and severity of the human health and environmental damage that has occurred as a result of the improper management of wastes containing the constituent.
 - (x) Action taken by other governmental agencies or regulatory programs based on the health or environmental hazard posed by the waste or waste constituent.
 - (xi) Such other factors as may be appropriate.

Substances will be listed on Appendix VIII only if they have been shown in scientific studies to have toxic, carcinogenic, mutagenic or teratogenic effects on humans or other life forms.

(Wastes listed in accordance with these criteria will be designated Toxic wastes.)

- (b) The Director may list classes or types of solid waste as hazardous waste if he/she has reason to believe that individual wastes, within the class or type of waste, typically or frequently are hazardous under the definition of hazardous waste found in Section 1004(5) of the Act.
- (c) Reserved

Subpart C - Characteristics of Hazardous Waste

§ 261.20 General.

- (a) A solid waste, as defined in § 261.2, which is not excluded from regulation as a hazardous waste under § 261.4(b), is a hazardous waste if it exhibits any of the characteristics identified in this Subpart.
- (b) A hazardous waste which is identified by a characteristic in this Subpart is assigned every EPA Hazardous Waste Number that is applicable as set forth in this Subpart. This number must be used in complying with the notification requirements of Part 99 of these regulations and all applicable recordkeeping and reporting requirements under Parts 262 through 266, Part 268, and Part 100.
- (c) For purposes of this Subpart, the Department will consider a sample obtained using any of the applicable sampling methods specified in Appendix I to be a representative sample within the meaning of Part 260.

§ 261.21 Characteristic of ignitability.

- (a) A solid waste exhibits the characteristic of ignitability if a representative sample of the waste has any of the following properties:
 - (1) It is a liquid, other than a solution containing less than 24 percent alcohol by volume and at least 50 percent water by weight, that has a flash point less than 60° C (140° F), as determined by using one of the following ASTM standards: ASTM D93-79, ASTM D93-80, D3278-78, D8174-18, or D8175-18 as specified in SW-846 Test Methods 1010(B) or 1020(C) (all incorporated by reference, see § 260.11).
 - (2) It is not a liquid and is capable, under standard temperature and pressure, of causing fire through friction, absorption of moisture, or spontaneous chemical changes and, when ignited, burns so vigorously and persistently that it creates a hazard.
 - (3) It is an ignitable compressed gas.
 - (i) The term "compressed gas" shall designate any material or mixture having in the container an absolute pressure exceeding 40 p.s.i. at 70°F or, regardless of the pressure at 70°F, having an absolute pressure exceeding 104 p.s.i. at 130°F; or any liquid flammable material having a vapor pressure exceeding 40 p.s.i. absolute at 100°F as determined by ASTM Test D-323.
 - (ii) A compressed gas shall be characterized as ignitable if any one of the following occurs:

- (A) Either a mixture of 13 percent or less (by volume) with air forms a flammable mixture or the flammable range with air is wider than 12 percent regardless of the lower limit. These limits shall be determined at atmospheric temperature and pressure. The method of sampling and test procedure shall be the ASTM E681-85 (incorporated by reference, see § 260.11), or other equivalent methods approved by the Associate Administrator, Pipeline and Hazardous Materials Safety Administration, U.S. Department of Transportation.
- (B) It is determined to be flammable or extremely flammable using 49 CFR § 173.115(I).
- (4) It is an oxidizer. An oxidizer for the purpose of this subchapter is a substance such as a chlorate, permanganate, inorganic peroxide, or a nitrate, that yields oxygen readily to stimulate the combustion of organic matter.
 - (i) An organic compound containing the bivalent -O-O- structure and which may be considered a derivative of hydrogen peroxide where one or more of the hydrogen atoms have been replaced by organic radicals must be classed as an organic peroxide unless:
 - (A) The material meets the definition of a Division 1.1, 1.2, or 1.3 explosive, as defined in § 261.23(a)(8), in which case it must be classed as an explosive,
 - (B) The material is forbidden to be offered for transportation according to 49 CFR 172.101 and 49 CFR 173.21,
 - (C) It is determined that the predominant hazard of the material containing an organic peroxide is other than that of an organic peroxide, or
 - (D) According to data on file with the Pipeline and Hazardous Materials Safety Administration in the U.S. Department of Transportation, it has been determined that the material does not present a hazard in transportation.
- (b) A solid waste that exhibits the characteristic of ignitability has the EPA Hazardous Waste Number of D001.

§ 261.22 Characteristic of corrosivity.

- (a) A solid waste exhibits the characteristic of corrosivity if a representative sample of the waste has either of the following properties:
 - (1) It is aqueous and has a pH less than or equal to 2 or greater than or equal to 12.5, as determined by a pH meter using Method 9040C in "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, "EPA Publication SW-846, as incorporated by reference in § 260.11 of these regulations.
 - (2) It is a liquid and corrodes steel (SAE 1020) at a rate greater than 6.35 mm (0.250 inch) per year at a test temperature of 55°C (130°F) as determined by Method 1110A in "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, "EPA Publication SW-846, as incorporated by reference in § 260.11 of these regulations.

(b) A solid waste that exhibits the characteristic of corrosivity has the EPA Hazardous Waste Number of D002.

§ 261.23 Characteristic of reactivity.

- (a) A solid waste exhibits the characteristic of reactivity if a representative sample of the waste has any of the following properties:
 - (1) It is normally unstable and readily undergoes violent change without detonating.
 - (2) It reacts violently with water.
 - (3) It forms potentially explosive mixtures with water.
 - (4) When mixed with water, it generates toxic gases, vapors or fumes in a quantity sufficient to present a danger to human health or the environment.
 - (5) It is a cyanide or sulfide bearing waste which, when exposed to pH conditions between 2 and 12.5 can generate toxic gases, vapors or fumes in a quantity sufficient to present a danger to human health or the environment.
 - (6) It is capable of detonation or explosive reaction if it is subjected to a strong initiating source or if heated under confinement.
 - (7) It is readily capable of detonation or explosive decomposition or reaction at standard temperature and pressure.
 - (8) It is a forbidden explosive as defined in 49 CFR § 173.54, or is a Division 1.1, 1.2, or 1.3 explosive as defined in 49 CFR § 173.50 and § 173.53.
- (b) A solid waste that exhibits the characteristic of reactivity, has the EPA Hazardous Waste Number of D003.

§ 261.24 Toxicity Characteristic.

- (a) A solid waste (except manufactured gas plant waste) exhibits the characteristic of toxicity if, using the Toxicity Characteristic Leaching Procedure, Test Method 1311 in "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, EPA Publication SW-846, as incorporated by reference in § 260.11 of these regulations, the extract from a representative sample of the waste contains any of the contaminants listed in Table 1 at a concentration equal to or greater than the respective value given in that Table. Where the waste contains less than 0.5 percent filterable solids, the waste itself, after filtering using the methodology outlined in Method 1311, is considered to be the extract for the purpose of this section.
- (b) A solid waste that exhibits the characteristic of toxicity has the EPA Hazardous Waste Number specified in Table 1 which corresponds to the toxic contaminant causing it to be hazardous.

Table 1 Max	imum Concentration of Contan	ninants for the	
EPA – HW No. ¹	Contaminant	CAS No. ²	Regulatory Level (mg/L)
D004	Arsenic	7440-38-2	5.0
D005	Barium	7440-39-3	100.0
D018	Benzene	71-43-2	0.5
D006	Cadmium	7440-43-9	1.0
D019	Carbon tetrachloride	56-23-5	0.5
D020	Chlordane	57-74-9	0.03
D021	Chlorobenzene	108-90-7	100.0
D022	Chloroform	67-66-3	6.0
D007	Chromium	7440-47-3	5.0
D023	o-Cresol	95-48-7	4200.0
D024	m-Cresol	108-39-4	4200.0
D025	p-Cresol	106-44-5	4200.0
D026	Cresol	-	4200.0
D016	2,4-D	94-75-7	10.0
D027.	1,4-Dichlorobenzene	106-46-7	7.5
D028	1,2-Dichloroethane	107-06-2	0.5
D029	1,1-Dichloroethylene	75-35-4	0.7
D030	2,4-Dinitrotoluene	121-14-2	³ 0.13
D012	Endrin	72-20-8	0.02
D031	Heptachlor (and its epoxide)	76-44-8	0.008
D032	Hexachlorobenzene	118-74-1	³ 0.13
D033	Hexachlorobutadiene	87-68-3	0.5
D034	Hexachloroethane	67-72-1	3.0
D008	Lead	7439-92-1	5.0
D013	Lindane	58-89-9	0.4
D009	Mercury	7439-97-6	0.2
D014	Methoxychlor	72-43-5	10.0
D035	Methyl ethyl ketone	78-93-3	200.0
D036	Nitrobenzene	98-95-3	2.0
D037	Pentachlorophenol	87-86-5	100.0
D038	Pyridine	110-86-1	³ 5.0
D010	Selenium	7782-49-2	1.0
D011	Silver	7440-22-4	5.0
D039	Tetrachloroethylene	127-18-4	0.7
D015	Toxaphene	8001-35-2	0.5
D040	Trichloroethylene	79-01-6	0.5
D041	2,4,5-Trichlorophenol	95-95-4	400.0
D042	2,4,6-Trichlorophenol	88-06-2	2.0
D017	2,4.5-TP (Silvex)	93-72-1	1.0
D043	Vinyl chloride	75-01-4	0.2

¹ Hazardous waste number.

² Chemical abstracts service number.

³ Quantitation limit is greater than the calculated regulatory level. The quantitation limit therefore becomes the regulatory level.

⁴ If o-, m-, and p-Cresol concentrations cannot be differentiated, the total cresol (D026) concentration is used.

Subpart D - Lists of Hazardous Wastes

§ 261.30 General.

- (a) A solid waste is a hazardous waste if it is listed in this Subpart, unless it has been excluded from this list under § \$ 260.20 and 260.22.
- (b) The Department will indicate its basis for listing the classes or types of wastes listed in this Subpart by employing one or more of the following Hazard Codes:

Ignitable Waste	(I)
Corrosive Waste	(C)
Reactive Waste	(R)
Toxicity Characteristic Waste	(E)
Acute Hazardous Waste	(H)
Toxic Waste	(T)

Appendix VII identifies the constituent which caused the Department to list the waste as a Toxicity Characteristic Waste (E) or Toxic Waste (T) in § § 261.31 and 261.32.

- (c) Each hazardous waste listed in this Subpart is assigned an EPA Hazardous Waste Number which precedes the name of the waste. This number must be used in complying with the notification requirements of CRS 1973, 25-15-301(2)(a) and (b) and certain recordkeeping and reporting requirements under Parts 262 through 266, Part 268, and Part 100.
- (d) The following hazardous wastes listed in § 261.31 are subject to the generator category limits for acutely hazardous wastes established in table 1 of § 262.13 of these regulations: EPA Hazardous Wastes Nos. F020, F021, F022, F023, F026 and F027.

§ 261.31 Hazardous wastes from non-specific sources.

(a) The following solid wastes are listed hazardous wastes from non-specific sources unless they are excluded under § § 260.20 and 260.22 and listed in Appendix IX.

Industry and EPA hazardous waste No.	Hazardous waste	Hazard code
Generic:		
F001	The following spent halogenated solvents used in degreasing: Tetrachloroethylene, trichloroethylene, methylene chloride, 1,1,1- trichloroethane, carbon tetrachloride, and chlorinated fluorocarbons; all spent solvent mixtures/blends used in degreasing containing, before use, a total of ten percent or more (by volume) of one or more of the above halogenated solvents or those solvents listed in F002, F004, and F005; and still bottoms from the recovery of these spent solvents and spent solvent mixtures.	(T)
F002	The following spent halogenated solvents: Tetrachloroethylene, methylene chloride, trichloroethylene, 1,1,1-trichloroethane, chlorobenzene, 1,1,2-trichloro-1,2,2-trifluoroethane, ortho-dichlorobenzene, trichlorofluoromethane, and 1,1,2-trichloroethane; all spent solvent mixtures/blends containing, before use, a total of ten percent or more (by volume) of one or more of the above halogenated solvents or those listed in F001, F004, or F005; and still bottoms from the recovery of these spent solvents and spent solvent mixtures.	(T)
F003	The following spent non-halogenated solvents: Xylene, acetone, ethyl acetate, ethyl benzene, ethyl ether, methyl isobutyl ketone, n-butyl alcohol, cyclohexanone, and methanol; all spent solvent mixtures/blends containing, before use, only the above spent non-halogenated solvents; and all spent solvent mixtures/blends containing, before use, one or more of the above non-halogenated solvents, and, a total of ten percent or more (by volume) of one or more of those solvents listed in F001, F002, F004, and F005; and still bottoms from the recovery of these spent solvents and spent solvent mixtures.	(1)*
F004	The following spent non-halogenated solvents: Cresols and cresylic acid, and nitrobenzene; all spent solvent mixtures/blends containing, before use, a total of ten percent or more (by volume) of one or more of the above non-halogenated solvents or those solvents listed in F001, F002, and F005; and still bottoms from the recovery of these spent solvents and spent solvent mixtures.	(T)
F005	The following spent non-halogenated solvents: Toluene, methyl ethyl ketone, carbon disulfide, isobutanol, pyridine, benzene, 2-ethoxyethanol, and 2-nitropropane; all spent solvent mixtures/blends containing, before use, a total of ten percent or more (by volume) of one or more of the above non-halogenated solvents or those solvents listed in F001, F002, or F004; and still bottoms from the recovery of these spent solvents and spent solvent mixtures.	(I,T)
F006	Wastewater treatment sludges from electroplating operations except from the following processes: (1) Sulfuric acid anodizing of aluminum; (2) tin plating on carbon steel; (3) zinc plating (segregated basis) on carbon steel; (4) aluminum or zinc-aluminum plating on carbon steel; (5) cleaning/stripping associated with tin, zinc and aluminum plating on carbon steel; and (6) chemical etching and milling of aluminum.	(T)

Industry and EPA hazardous	Hazardous waste	Hazard code
waste No.		
Generic:		
F007	Spent cyanide plating bath solutions from electroplating operations.	(R, T)
F008	Plating bath residues from the bottom of plating baths from electroplating operations where cyanides are used in the process.	(R, T)
F009	Spent stripping and cleaning bath solutions from electroplating operations where cyanides are used in the process.	(R, T)
F010	Quenching bath residues from oil baths from metal heat treating operations where cyanides are used in the process.	(R, T)
F011	Spent cyanide solutions from salt bath pot cleaning from metal heat treating operations.	(R, T)
F012	Quenching waste water treatment sludges from metal heat treating operations where cyanides are used in the process.	(T)
F019	Wastewater treatment sludges from the chemical conversion coating of aluminum except from zirconium phosphating in aluminum can washing when such phosphating is an exclusive conversion coating process. Note: For the purposes of the F019 listing, conversion coating is intended to include but not be limited to coloring, phosphating, chromating and immersion plating when those processes are used to impart a conversion coating on aluminum.	(T)
F020	Wastes (except wastewater and spent carbon from hydrogen chloride purification) from the production or manufacturing use (as a reactant, chemical intermediate, or component in a formulating process) of tri- or tetrachlorophenol, or of intermediates used to produce their pesticide derivatives. (This listing does not include wastes from the production of Hexachlorophene from highly purified 2,4,5-trichlorophenol.).	(H)
F021	Wastes (except wastewater and spent carbon from hydrogen chloride purification) from the production or manufacturing use (as a reactant, chemical intermediate, or component in a formulating process) of pentachlorophenol, or of intermediates used to produce its derivatives.	(H)
F022	Wastes (except wastewater and spent carbon from hydrogen chloride purification) from the manufacturing use (as a reactant, chemical intermediate, or component in a formulating process) of tetra-, penta-, or hexachlorobenzenes under alkaline conditions.	(H)
F023	Wastes (except wastewater and spent carbon from hydrogen chloride purification) from the production of materials on equipment previously used for the production or manufacturing use (as a reactant, chemical intermediate, or component in a formulating process) of tri- and tetrachlorophenols. (This listing does not include wastes from equipment used only for the production or use of Hexachlorophene from highly purified 2,4,5-trichlorophenol.).	(H)
F024	Process wastes, including but not limited to, distillation residues, heavy ends, tars, and reactor clean-out wastes, from the production of certain chlorinated aliphatic hydrocarbons by free radical catalyzed processes. These chlorinated aliphatic hydrocarbons are those having carbon chain lengths ranging from one to and including five, with varying amounts and positions of chlorine substitution. (This listing does not include wastewaters, wastewater treatment sludges, spent catalysts, and wastes listed in § 261.31 or § 261.32.).	(T)

Industry and EPA hazardous waste No.	Hazardous waste	Hazard code
Generic: F025	Condensed light ends, spent filters and filter aids, and spent desiccant wastes from the production of certain chlorinated aliphatic hydrocarbons, by free radical catalyzed processes. These chlorinated aliphatic hydrocarbons are those having carbon chain lengths ranging from one to and including five, with varying amounts and positions of chlorine substitution.	(T)
F026	Wastes (except wastewater and spent carbon from hydrogen chloride purification) from the production of materials on equipment previously used for the manufacturing use (as a reactant, chemical intermediate, or component in a formulating process) of tetra-, penta-, or hexachlorobenzene under alkaline conditions.	(H)
F027	Discarded unused formulations containing tri-, tetra-, or pentachlorophenol or discarded unused formulations containing compounds derived from these chlorophenols. (This listing does not include formulations containing Hexachlorophene synthesized from prepurified 2,4,5-trichlorophenol as the sole component.).	(H)
F028	Residues resulting from the incineration or thermal treatment of soil contaminated with EPA Hazardous Waste Nos. F020, F021, F022, F023, F026, and F027.	(T)
F032	Wastewaters (except those that have not come into contact with process contaminants), process residuals, preservative drippage, and spent formulations from wood preserving processes generated at plants that currently use or have previously used chlorophenolic formulations (except potentially cross-contaminated wastes that have had the F032 waste code deleted in accordance with ' 261.35 of these regulations or potentially cross-contaminated wastes that are otherwise currently regulated as hazardous wastes (i.e., F034 or F035), and where the generator does not resume or initiate use of chlorophenolic formulations). This listing does not include K001 bottom sediment sludge from the treatment of wastewater from wood preserving processes that use creosote and/or pentachlorophenol	(Т)
F034	Wastewaters (except those that have not come into contact with process contaminants), process residuals, preservative drippage, and spent formulations from wood preserving processes generated at plants that use creosote formulations. This listing does not include K001 bottom sediment sludge from the treatment of wastewater from wood preserving processes that use creosote and/or pentachlorophenol.	(T)
F035	Wastewaters (except those that have not come into contact with process contaminants), process residuals, preservative drippage, and spent formulations from wood preserving processes generated at plants that use inorganic preservatives containing arsenic or chromium. This listing does not include K001 bottom sediment sludge from the treatment of wastewater from wood preserving processes that use creosote and/or pentachlorophenol.	(T)

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FOOTNOTE: *(I,T) should be used to specify mixtures containing ignitable and toxic constituents.

- (b) Listing Specific Definitions:
 - (1) For the purposes of the F037 and F038 listings, oil/water/solids is defined as oil and/or water and/or solids.
 - (i) For the purposes of the F037 and F038 listings, aggressive biological treatment units are defined as units which employ one of the following four treatment methods: activated sludge; trickling filter; rotating biological contactor for the continuous accelerated biological oxidation of wastewaters; or high-rate aeration. High-rate aeration is a system of surface impoundments or tanks, in which intense mechanical aeration is used to completely mix the wastes, enhance biological activity, and (A) the units employ a minimum of 6 hp per million gallons of treatment volume; and either (B) the hydraulic retention time of the unit is no longer than 5 days; or (C) the hydraulic retention time is no longer than 30 days and the unit does not generate a sludge that is a hazardous waste by the Toxicity Characteristic.
 - (ii) Generators and treatment, storage, and disposal facilities have the burden of proving that their sludges are exempt from listing as F037 and F038 wastes under this definition. Generators and treatment, storage, and disposal facilities must maintain, in their operating or other onsite records, documents and data sufficient to prove that: (A) the unit is an aggressive biological treatment unit as defined in this subsection; and (B) the sludges sought to be exempted from the definitions of F037 and/or F038 were actually generated in the aggressive biological treatment unit.
 - (3) (i) For the purposes of the F037 listing, sludges are considered to be generated at the moment of deposition in the unit, where deposition is defined as at least a temporary cessation of lateral particle movement.
 - (ii) For the purpose of the F038 listing, (A) sludges are considered to be generated at the moment of deposition in the unit, where deposition is defined as at least a temporary cessation of lateral particle movement and (B) floats are considered to be generated at the moment they are formed in the top of the unit.

§ 261.32 Hazardous Waste from Specific Sources.

(a) The following solid wastes are listed hazardous wastes from specific sources unless they are excluded under § § 260.20 and 260.22 and listed in Appendix IX.

Industry and EPA hazardous waste No	Hazardous waste	Hazard code
Wood prese	rvation:	•
K001	Bottom sediment sludge from the treatment of wastewaters from wood preserving processes that use creosote and/or pentachlorophenol.	(T)
Inorganic pi	gments:	
K002	Wastewater treatment sludge from the production of chrome yellow and orange pigments.	(T)
K003	Wastewater treatment sludge from the production of molybdate orange pigments.	(T)
K004	Wastewater treatment sludge from the production of zinc yellow pigments.	(T)
K005	Wastewater treatment sludge from the production of chrome green pigments.	(T)
K006	(anhydrous and hydrated).	(T)
K007	Wastewater treatment sludge from the production of iron blue pigments.	(T)
K008	Oven residue from the production of chrome oxide green pigments.	(T)
Organic che	micals:	
K009	Distillation bottoms from the production of acetaldehyde from ethylene.	(T)
K010	Distillation side cuts from the production of acetaldehyde from ethylene.	(T)
K011	Bottom stream from the wastewater stripper in the production of acrylonitrile.	(R, T)
K013	Bottom stream from the acetonitrile column in the production of acrylonitrile.	(R, T)
K014	Bottoms from the acetonitrile purification column in the production of acrylonitrile.	(T)
K015	Still bottoms from the distillation of benzyl chloride.	(T)
K016	Heavy ends or distillation residues from the production of carbon tetrachloride.	(T)
K017	Heavy ends (still bottoms) from the purification column in the production of epichlorohydrin.	(T)
K018	Heavy ends from the fractionation column in ethyl chloride production.	(T)
K019	Heavy ends from the distillation of ethylene dichloride in ethylene dichloride production.	(T)
K020	Heavy ends from the distillation of vinyl chloride in vinyl chloride monomer production.	(T)
K021	Aqueous spent antimony catalyst waste from fluoromethanes production.	(T)
K022	Distillation bottom tars from the production of phenol/acetone from cumene.	(T)
K023	Distillation light ends from the production of phthalic anhydride from naphthalene.	(T)
K024	Distillation bottoms from the production of phthalic anhydride from naphthalene.	(T)
K025	Distillation bottoms from the production of nitrobenzene by the nitration of benzene.	(T)
K026	Stripping still tails from the production of methy ethyl pyridines.	(T)
K027	Centrifuge and distillation residues from toluene diisocyanate production.	(R, T)
K028	Spent catalyst from the hydrochlorinator reactor in the production of 1,1,1-trichloroethane.	(T)
K029	Waste from the product steam stripper in the production of 1,1,1-trichloroethane.	(T)

Industry and EPA hazardous waste No	Hazardous waste	Hazard code
K030	Column bottoms or heavy ends from the combined production of trichloroethylene and perchloroethylene.	(T)
K083	Distillation bottoms from aniline production.	(T)
K085	Distillation or fractionation column bottoms from the production of chlorobenzenes.	(T)
K093	Distillation light ends from the production of phthalic anhydride from ortho-xylene.	(T)
K094	Distillation bottoms from the production of phthalic anhydride from ortho-xylene.	(T)
K095	Distillation bottoms from the production of 1,1,1-trichloroethane.	(T)
K096	Heavy ends from the heavy ends column from the production of 1,1,1-trichloroethane.	(T)
K103	Process residues from aniline extraction from the production of aniline.	(T)
K104	Combined wastewater streams generated from nitrobenzene/aniline production.	(T)
K105	Separated aqueous stream from the reactor product washing step in the production of chlorobenzenes.	
K107	Column bottoms from product separation from the production of 1,1-dimethylhydrazine (UDMH) from carboxylic acid hydrazides.	(C,T)
K108	Condensed column overheads from product separation and condensed reactor vent gases from the production of 1,1-dimethylhydrazine (UDMH) from carboxylic acid hydrazides.	(I,T)
K109		(T)
K110	Condensed column overheads from intermediate separation from the production of 1,1-dimethylhydrazine (UDMH) from carboxylic acid hydrazides.	(T)
K111	Product washwaters from the production of dinitrotoluene via nitration of toluene.	(C,T)
K112	Reaction by-product water from the drying column in the production of toluenediamine via hydrogenation of dinitrotoluene.	(T)
K113	production of toluenediamine via hydrogenation of dinitrotoluene.	(T)
K114	Vicinals from the purification of toluenediamine in the production of toluenediamine via hydrogenation of dinitrotoluene.	(T)
K115	Heavy ends from the purification of toluenediamine in the production of toluenediamine via hydrogenation of dinitrotoluene.	(T)
K116	Organic condensate from the solvent recovery column in the production of toluene diisocyanate via phosgenation of toluenediamine.	(T)
K117	Wastewater from the reactor vent gas scrubber in the production of ethylene dibromide via bromination of ethene.	(T)
K118	Spent adsorbent solids from purification of ethylene dibromide in the production of ethylene dibromide via bromination of ethene.	(T)
K136	Still bottoms from the purification of ethylene dibromide in the production of ethylene dibromide via bromination of ethene.	(T)
K149		(T)
K150	Organic residuals, excluding spent carbon adsorbent, from the spent chlorine gas and hydrochloric acid recovery processes associated with the production of alpha-(or methyl-) chlorinated toluenes, ring-chlorinated toluenes, benzoyl chlorides, and compounds with mixtures of these functional groups.	(T)

Industry and EPA hazardous waste No	Hazardous waste	Hazard code
K151	Wastewater treatment sludges, excluding neutralization and biological sludges, generated during the treatment of wastewaters from the production of alpha- (or methyl-) chlorinated toluenes, ring-chlorinated toluenes, benzoyl chlorides, and compounds with mixtures of these functional groups.	(T)
K156	Organic waste (including heavy ends, still bottoms, light ends, spent solvents, filtrates, and decantates) from the production of carbamates and carbamoyl oximes. (This listing does not apply to wastes generated from the manufacture of 3-iodo-2-propynyl n-butylcarbamate.).	(T)
K157	separation waters) from the production of carbamates and carbamoyl oximes. (This listing does not apply to wastes generated from the manufacture of 3-iodo-2-propynyl n-butylcarbamate.).	
K158	Bag house dusts and filter/separation solids from the production of carbamates and carbamoyl oximes. (This listing does not apply to wastes generated from the manufacture of 3-iodo-2-propynyl n-butylcarbamate.).	,
K159	Organics from the treatment of thiocarbamate wastes	(T)
K161	Purification solids (including filtration, evaporation, and centrifugation solids), bag house dust and floor sweepings from the production of dithiocarbamate acids and their salts. (This listing does not include K125 or K126).	(R,T)
K174	Wastewater treatment sludges from the production of ethylene dichloride or vinyl chloride monomer (including sludges that result from commingled ethylene dichloride or vinyl chloride monomer wastewater and other wastewater), unless the sludges meet the following conditions: (i) they are disposed of in a subtitle C or non- hazardous landfill licensed or permitted by the state or federal government; (ii) they are not otherwise placed on the land prior to final disposal; and (iii) the generator maintains documentation demonstrating that the waste was either disposed of in an on-site landfill or consigned to a transporter or disposal facility that provided a written commitment to dispose of the waste in an off-site landfill. Respondents in any action brought to enforce the requirements of subtitle C must, upon a showing by the government that the respondent managed wastewater treatment sludges from the production of vinyl chloride monomer or ethylene dichloride, demonstrate that they meet the terms of the exclusion set forth above. In doing so, they must provide appropriate documentation (e.g., contracts between the generator and the landfill owner/operator, invoices documenting delivery of waste to landfill, etc.) that the terms of the exclusion were met.	(T)
K175	Wastewater treatment sludges from the production of vinyl chloride monomer using mercuric chloride catalyst in an acetylene-based process.	(T)

Industry and EPA hazardous waste No	Hazardous waste	Hazard code
K181	Nonwastewaters from the production of dyes and/or pigments (including nonwastewaters commingled at the point of generation with nonwastewaters from other processes) that, at the point of generation, contain mass loadings of any of the constituents identified in paragraph (c) of this section that are equal to or greater than the corresponding paragraph (c) levels, as determined on a calendar year basis. These wastes will not be hazardous if the nonwastewaters are: (i) disposed in a Subtitle D landfill unit subject to the design criteria in § 258.40, (ii) disposed in a Subtitle C landfill unit subject to either § 264.301 or § 265.301, (iii) disposed in other Subtitle D landfill units that meet the design criteria in § 258.40, § 264.301, or § 265.301, or (iv) treated in a combustion unit that is permitted under Subtitle C, or an onsite combustion unit that is permitted under the Clean Air Act. For the purposes of this listing, dyes and/or pigments production is defined in paragraph (b)(1) of this section. Paragraph (d) of this section describes the process for demonstrating that a facility's nonwastewaters are not K181. This listing does not apply to wastes that are otherwise identified as hazardous under §§ 261.21-261.24 and 261.31-261.33 at the point of generation. Also, the listing does not apply to wastes generated before any annual mass loading limit is met.	
Inorganic cl		
K071	Brine purification muds from the mercury cell process in chlorine production, where separately prepurified brine is not used.	(T)
K073	Chlorinated hydrocarbon waste from the purification step of the diaphragm cell process using graphite anodes in chlorine production.	(T)
K106	Wastewater treatment sludge from the mercury cell process in chlorine production.	(T)
K176	Baghouse filters from the production of antimony oxide, including filters from the production of intermediates (e.g., antimony metal or crude antimony oxide).	(E)
K177	Slag from the production of antimony oxide that is speculatively accumulated or disposed, including slag from the production of intermediates (e.g., antimony metal or crude antimony oxide).	(T)
K178	Residues from manufacturing and manufacturing-site storage of ferric chloride from acids formed during the production of titanium dioxide using the chloride-ilmenite process.	(T)
Pesticides:		
K031	By-product salts generated in the production of MSMA and cacodylic acid.	(T)
K032	Wastewater treatment sludge from the production of chlordane.	(T)
K033	Wastewater and scrub water from the chlorination of cyclopentadiene in the production of chlordane.	(T)
K034	Filter solids from the filtration of hexachlorocyclopentadiene in the production of chlordane.	(T)
K035	Wastewater treatment sludges generated in the production of creosote.	(T)
K036	Still bottoms from toluene reclamation distillation in the production of disulfoton.	(T)
K037	Wastewater treatment sludges from the production of disulfoton.	(T)
K038	Wastewater from the washing and stripping of phorate production.	(T)
K039	Filter cake from the filtration of diethylphosphorodithioic acid in the production of phorate.	(T)
K040	Wastewater treatment sludge from the production of phorate.	(T)
K041	Wastewater treatment sludge from the production of toxaphene.	(T)
K042	Heavy ends or distillation residues from the distillation of tetrachlorobenzene in the production of 2,4,5-T.	(T)

Industry and EPA hazardous waste No	Hazardous waste	Hazard code
K043	2,6-Dichlorophenol waste from the production of 2,4-D.	(T)
K097	Vacuum stripper discharge from the chlordane chlorinator in the production of chlordane.	(T)
K098	Untreated process wastewater from the production of toxaphene.	(T)
K099	Untreated wastewater from the production of 2,4-D.	(T)
K123	Process wastewater (including supernates, filtrates, and washwaters) from the production of ethylenebisdithiocarbamic acid and its salt.	(T)
K124	Reactor vent scrubber water from the production of ethylenebisdithiocarbamic acid and its salts.	(C, T)
K125	Filtration, evaporation, and centrifugation solids from the production of ethylenebisdithiocarbamic acid and its salts.	(T)
K126	Baghouse dust and floor sweepings in milling and packaging operations from the production or formulation of ethylenebisdithiocarbamic acid and its salts.	(T)
K131	Wastewater from the reactor and spent sulfuric acid from the acid dryer from the production of methyl bromide.	(C,T)
K132	Spent absorbent and wastewater separator solids from the production of methyl bromide.	(T)
Explosives:		
K044	Wastewater treatment sludges from the manufacturing and processing of explosives.	(R)
K045	Spent carbon from the treatment of wastewater containing explosives.	(R)
K046	Wastewater treatment sludges from the manufacturing, formulation and loading of lead-based initiating compounds.	(T)
K047	Pink/red water from TNT operations.	(R)
Petroleum r	efining:	
K048	Dissolved air flotation (DAF) float from the petroleum refining industry.	(T)
K049	Slop oil emulsion solids from the petroleum refining industry.	(T)
K050	Heat exchanger bundle cleaning sludge from the petroleum refining industry.	(T)
K051	API separator sludge from the petroleum refining industry.	(T)
K052	Tank bottoms (leaded) from the petroleum refining industry.	(T)
K169	Crude oil storage tank sediment from petroleum refining operations	(T)
K170	Clarified slurry oil tank sediment and/or in-line filter/separation solids from petroleum refining operations.	(T)
K171	Spent Hydrotreating catalyst from petroleum refining operations, including guard beds used to desulfurize feeds to other catalytic reactors (this listing does not include inert support media).	(I,T)
K172	Spent Hydrorefining catalyst from petroleum refining operations, including guard beds used to desulfurize feeds to other catalytic reactors (this listing does not include inert support media).	(I,T)
Iron and ste	el:	
K061	Emission control dust/sludge from the primary production of steel in electric furnaces.	(T)
K062	Spent pickle liquor generated by steel finishing operations of facilities within the iron and steel industry (SIC Codes 331 and 332).	(C,T)
Primary alu	minum:	
K088	Spent potliners from primary aluminum reduction.	(T)

Industry and EPA hazardous waste No	Hazardous waste	Hazard code
Secondary I	ead:	1
K069	Emission control dust/sludge from secondary lead smelting. (Note: This listing is stayed administratively for sludge generated from secondary acid scrubber systems. The stay will remain in effect until further administrative action is taken. If EPA takes further action affecting this stay, the Hazardous Waste Commission will publish a notice of the action in the Colorado Register).	(T)
K100	Waste leaching solution from acid leaching of emission control dust/sludge from secondary lead smelting.	(T)
Veterinary p	harmaceuticals:	
K084	Wastewater treatment sludges generated during the production of veterinary pharmaceuticals from arsenic or organo-arsenic compounds.	(T)
K101	Distillation tar residues from the distillation of aniline-based compounds in the production of veterinary pharmaceuticals from arsenic or organo-arsenic compounds.	(T)
K102	Residue from the use of activated carbon for decolorization in the production of veterinary pharmaceuticals from arsenic or organo-arsenic compounds.	(T)
Ink formulat	ion:	
K086	Solvent washes and sludges, caustic washes and sludges, or water washes and sludges from cleaning tubs and equipment used in the formulation of ink from pigments, driers, soaps, and stabilizers containing chromium and lead.	(T)
Coking:		
K060	Ammonia still lime sludge from coking operations.	(T)
K087	Decanter tank tar sludge from coking operations.	(T)
K141	Process residues from the recovery of coal tar, including, but not limited to, collecting sump residues from the production of coke from coal or the recovery of coke by-products produced from coal. This listing does not include K087 (decanter tank tar sludges from coking operations).	(T)
K142	Tar storage tank residues from the production of coke from coal or from the recovery of coke by-products produced from coal.	(T)
K143	Process residues from the recovery of light oil, including, but not limited to, those generated in stills, decanters, and wash oil recovery units from the recovery of coke by-products produced from coal.	(T)
K144	Wastewater sump residues from light oil refining, including, but not limited to, intercepting or contamination sump sludges from the recovery of coke by-products produced from coal.	(T)
K145	Residues from naphthalene collection and recovery operations from the recovery of coke by-products produced from coal.	(T)
K147	Tar storage tank residues from coal tar refining.	(T)
K148	Residues from coal tar distillation, including but not limited to, still bottoms.	(T)
Military Mur	nitions:	1
K901		(R), (H), (T), (C), (E)
	chemical weapons listed as K901 or hazardous wastes listed as P909, P910 or P911.	(H), (T), (C), (E)

Industry and EPA hazardous waste No	Hazardous waste	Hazard code
	Hydrolysate: waste generated from the chemical neutralization of mustard agent by the addition of water and subsequent manipulation to a sustained and stable pH>10 to ensure destruction of sulfonium ions and TDG-mustard aggregates.	(T), (E)

- (b) Listing Specific Definitions: (1) For the purposes of the K181 listing, dyes and/or pigments production is defined to include manufacture of the following product classes: dyes, pigments, or FDA certified colors that are classified as azo, triarylmethane, perylene or anthraquinone classes. Azo products include azo, monoazo, diazo, triazo, polyazo, azoic, benzidine, and pyrazolone products. Triarylmethane products include both triarylmethane and triphenylmethane products. Wastes that are not generated at a dyes and/or pigments manufacturing site, such as wastes from the offsite use, formulation, and packaging of dyes and/or pigments, are not included in the K181 listing.
- (c) **K181 Listing Levels.** Nonwastewaters containing constituents in amounts equal to or exceeding the following levels during any calendar year are subject to the K181 listing, unless the conditions in the K181 listing are met.

Constituent	Chemical Abstracts No.	Mass levels (kg/yr)
Aniline	62-53-3	9,300
o-Anisidine	90-04-0	110
4-Chloroaniline	106-47-8	4,800
p-Cresidine	120-71-8	660
2,4-Dimethylaniline	95-68-1	100
1,2-Phenylenediamine	95-54-5	710
1,3-Phenylenediamine	108-45-2	1,200

- (d) Procedures for demonstrating that dyes and/or pigment nonwastewaters are not K181. The procedures described in paragraphs (d)(1)-(d)(3) and (d)(5) of this section establish when nonwastewaters from the production of dyes/pigments would not be hazardous (these procedures apply to wastes that are not disposed in landfill units or treated in combustion units as specified in paragraph (a) of this section). If the nonwastewaters are disposed in landfill units or treated in combustion units as described in paragraph (a) of this section, then the nonwastewaters are not hazardous. In order to demonstrate that it is meeting the landfill disposal or combustion conditions contained in the K181 listing description, the generator must maintain documentation as described in paragraph (d)(4) of this section.
 - (1) Determination based on no K181 constituents. Generators that have knowledge (e.g., knowledge of constituents in wastes based on prior sampling and analysis data and/or information about raw materials used, production processes used, and reaction and degradation products formed) that their wastes contain none of the K181 constituents (see paragraph (c) of this section) can use their knowledge to determine that their waste is not K181. The generator must document the basis for all such determinations on an annual basis and keep each annual documentation for three years.
 - (2) Determination for generated quantities of 1,000 MT/yr or less for wastes that contain K181 constituents. If the total annual quantity of dyes and/or pigment nonwastewaters generated is 1,000 metric tons or less, the generator can use knowledge of the wastes (e.g., knowledge of constituents in wastes based on prior analytical data and/or information about raw materials used, production processes used, and reaction and degradation products formed) to conclude that annual mass loadings for the K181 constituents are below the listing levels of paragraph (c) of this section. To make this determination, the generator must:

- (i) Each year document the basis for determining that the annual quantity of nonwastewaters expected to be generated will be less than 1.000 metric tons.
- (ii) Track the actual quantity of nonwastewaters generated from January 1 through December 31 of each year. If, at any time within the year, the actual waste quantity exceeds 1,000 metric tons, the generator must comply with the requirements of paragraph (d)(3) of this section for the remainder of the year.
- (iii) Keep a running total of the K181 constituent mass loadings over the course of the calendar year.
- (iv) Keep the following records on site for the three most recent calendar years in which the hazardous waste determinations are made:
 - (A) The quantity of dyes and/or pigment nonwastewaters generated.
 - (B) The relevant process information used.
 - (C) The calculations performed to determine annual total mass loadings for each K181 constituent in the nonwastewaters during the year.
- (3) Determination for generated quantities greater than 1,000 MT/yr for wastes that contain K181 constituents. If the total annual quantity of dyes and/or pigment nonwastewaters generated is greater than 1,000 metric tons, the generator must perform all of the steps described in paragraphs ((d)(3)(i)-(d)(3)(xi) of this section) in order to make a determination that its waste is not K181.
 - (i) Determine which K181 constituents (see paragraph (c) of this section) are reasonably expected to be present in the wastes based on knowledge of the wastes (e.g., based on prior sampling and analysis data and/or information about raw materials used, production processes used, and reaction and degradation products formed).
 - (ii) If 1,2-phenylenediamine is present in the wastes, the generator can use either knowledge or sampling and analysis procedures to determine the level of this constituent in the wastes. For determinations based on use of knowledge, the generator must comply with the procedures for using knowledge described in paragraph (d)(2) of this section and keep the records described in paragraph (d)(2)(iv) of this section. For determinations based on sampling and analysis, the generator must comply with the sampling and analysis and recordkeeping requirements described below in this section.
 - (iii) Develop a waste sampling and analysis plan (or modify an existing plan) to collect and analyze representative waste samples for the K181 constituents reasonably expected to be present in the wastes. At a minimum, the plan must include:
 - (A) A discussion of the number of samples needed to characterize the wastes fully;
 - (B) The planned sample collection method to obtain representative waste samples;
 - (C) A discussion of how the sampling plan accounts for potential temporal and spatial variability of the wastes.

- (D) A detailed description of the test methods to be used, including sample preparation, clean up (if necessary), and determinative methods.
- (iv) Collect and analyze samples in accordance with the waste sampling and analysis plan.
 - (A) The sampling and analysis must be unbiased, precise, and representative of the wastes.
 - (B) The analytical measurements must be sufficiently sensitive, accurate and precise to support any claim that the constituent mass loadings are below the listing levels of paragraph (c) of this section.
- (v) Record the analytical results.
- (vi) Record the waste quantity represented by the sampling and analysis results.
- (vii) Calculate constituent-specific mass loadings (product of concentrations and waste quantity).
- (viii) Keep a running total of the K181 constituent mass loadings over the course of the calendar year.
- (ix) Determine whether the mass of any of the K181 constituents listed in paragraph (c) of this section generated between January 1 and December 31 of any year is below the K181 listing levels.
- (x) Keep the following records on site for the three most recent calendar years in which the hazardous waste determinations are made:
 - (A) The sampling and analysis plan.
 - (B) The sampling and analysis results (including QA/QC data)
 - (C) The quantity of dyes and/or pigment nonwastewaters generated.
 - (D) The calculations performed to determine annual mass loadings.
- (xi) Nonhazardous waste determinations must be conducted annually to verify that the wastes remain nonhazardous.
 - (A) The annual testing requirements are suspended after three consecutive successful annual demonstrations that the wastes are nonhazardous. The generator can then use knowledge of the wastes to support subsequent annual determinations.
 - (B) The annual testing requirements are reinstated if the manufacturing or waste treatment processes generating the wastes are significantly altered, resulting in an increase of the potential for the wastes to exceed the listing levels.
 - (C) If the annual testing requirements are suspended, the generator must keep records of the process knowledge information used to support a nonhazardous determination. If testing is reinstated, a description of the process change must be retained.

- (4) Recordkeeping for the landfill disposal and combustion exemptions. For the purposes of meeting the landfill disposal and combustion condition set out in the K181 listing description, the generator must maintain on site for three years documentation demonstrating that each shipment of waste was received by a landfill unit that is subject to or meets the landfill design standards set out in the listing description, or was treated in combustion units as specified in the listing description.
- (5) Waste holding and handling. During the interim period, from the point of generation to completion of the hazardous waste determination, the generator is responsible for storing the wastes appropriately. If the wastes are determined to be hazardous and the generator has not complied with the subtitle C requirements during the interim period, the generator could be subject to an enforcement action for improper management.

§ 261.33 Discarded commercial chemical products, off specification species, container residues, and spill residues thereof.

The following materials or items are hazardous wastes if and when they are discarded or intended to be discarded as described in § 261.2(a)(2), when they are mixed with waste oil or used oil or other material and applied to the land for dust suppression or road treatment, when they are otherwise applied to the land in lieu of their original intended use or when they are contained in products that are applied to the land in lieu of their original intended use, or when, in lieu of their original intended 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, or when they are residues described in § 261.33(d) and are not recycled in accordance with § 261.2(e) within 90 days of the initial spill event.

- (a) Any commercial chemical product, or manufacturing chemical intermediate having the generic name listed in paragraphs (e) or (f) of this section.
- (b) Any off-specification commercial product or manufacturing chemical intermediate which, if it met specifications, would have the generic name listed in paragraphs (e) or (f) of this section.
- (c) Any residue remaining in a container or in an inner liner removed from a container that has held any commercial chemical product or manufacturing chemical intermediate having the generic name listed in paragraph (e) or (f) of this section, unless the container is empty as defined in § 261.7(b) or § 267.507 of these regulations.
 - [Comment: Unless the residue is being beneficially used or reused, or legitimately recycled or reclaimed; or being accumulated, stored, transported or treated prior to such use, re-use, recycling or reclamation, EPA considers the residue to be intended for discard, and thus a hazardous waste. An example of a legitimate re-use of the residue would be where the residue remains in the container and the container is used to hold the same commercial chemical product or manufacturing chemical product or manufacturing chemical intermediate it previously held. An example of the discard of the residue would be where the drum is sent to a drum reconditioner who reconditions the drum but discards the residue.].
- (d) Any residue or contaminated soil, water or other debris resulting from the cleanup of a spill into or on any land or water of any commercial chemical product or manufacturing chemical intermediate having the generic name listed in paragraph (a) through (d) of this section, or any residue or contaminated soil, water or other debris resulting from the cleanup of a spill, into or on any land or water, of any off-specification chemical product and manufacturing intermediate which, if it met specifications, would have the generic name listed in paragraphs (e) or (f) of this section.

Note: Colorado's regulations are more stringent than the federal regulations of 40 CFR § 261.33(d) with regard to application of P and U-listed waste codes to unused commercial chemical products. Pursuant to the comment at 40 CFR 261.33(d), the listed chemical must be the "sole active ingredient" to meet the listing description. In Colorado, formulations may have more than one active ingredient and still meet the listing description.

(e) The commercial chemical products, manufacturing chemical intermediates or off specification commercial chemical products or manufacturing chemical intermediates referred to in paragraphs (a) through (d) of this section, are identified as acute hazardous wastes (H).

[Comment: For the convenience of the regulated community 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 only is listed for acute toxicity.]

These wastes and their corresponding EPA Hazardous Waste Numbers are:

Hazardous waste No.	Chemical abstracts No.	Substance	Common Name
P023	107-20-0	Acetaldehyde, chloro-	Chloroacetaldehyde
P002	591-08-2	Acetamide, N-(aminothioxomethyl)-	1-Acetyl-2-thiourea
P057	640-19-7	Acetamide, 2-fluoro-	Fluoroacetamide
P058	62-74-8	Acetic acid, fluoro-, sodium salt	Fluoroacetic acid, sodium salt
P002	591-08-2	1-Acetyl-2-thiourea	Same
P003	107-02-8	Acrolein	Same
P070	116-06-3	Aldicarb	Same
P203	1646-88-4	Aldicarb sulfone	Same
P004	309-00-2	Aldrin	Same
P005	107-18-6	Allyl alcohol	Same
P006	20859-73-8	Aluminum phosphide (R,T)	Same
P007	2763-96-4	5-(Aminomethyl)-3-isoxazolol	Muscimol
P008	504-24-5	4-Aminopyridine	Same
P009	131-74-8	Ammonium picrate (R)	Same
P119	7803-55-6	Ammonium vanadate	Ammonium metavanadate
P099	506-61-6	Argentate(1-), bis(cyano-C)-, potassium	Potassium silver cyanide
P010	7778-39-4	Arsenic acid H₃AsO₄	Arsenic acid
P012	1327-53-3	Arsenic oxide As ₂ O ₃	Arsenic trioxide
P011	1303-28-2	Arsenic oxide As ₂ O ₅	Arsenic pentoxide
P011	1303-28-2	Arsenic pentoxide	Same
P012	1327-53-3	Arsenic trioxide	Same
P038	692-42-2	Arsine, diethyl-	Diethylarsine
P036	696-28-6	Arsonous dichloride, phenyl-	Dichlorophenylarsine
P054	151-56-4	Aziridine	Ethyleneimine
P067	75-55-8	Aziridine, 2-methyl-	Propyleneimine
P013	542-62-1	Barium cyanide	Same
P024	106-47-8	Benzenamine, 4-chloro-	4-Chloroaniline
P077	100-01-6	Benzenamine, 4-nitro-	4-Nitroaniline
P028	100-44-7	Benzene, (chloromethyl)-	Benzyl chloride
P042	51-43-4	1,2-Benzenediol, 4-[1-hydroxy-2-(methylamino)ethyl]-, (R)-	Epinephrine

Hazardous waste No.	Chemical abstracts No.	Substance	Common Name
P046	122-09-8	Benzeneethanamine, alpha,alpha-dimethyl-	Phentermine
P014	108-98-5	Benzenethiol	Thiophenol
P127	1563-66-2	7-Benzofuranol, 2,3-dihydro-2,2-dimethyl-,methylcarbamate	Carbofuran
P188	57-64-7	Benzoic acid, 2-hydroxy-, compd. with (3aS-cis)-1,2,3,3a,8,8a-hexahydro-1, 3a,8-trimethylpyrrolo[2,3-b]indol-5-ylmethylcarbamate ester (1:1)	Physostigmine, salicylate
P001	¹ 81-81-2	2H-1-Benzopyran-2-one, 4-hydroxy-3-(3-oxo-1-phenylbutyl)-, & salts, when present at concentrations greater than 0.3%	Warfarin salts, when present at concentrations greater than 0.3%
P028	100-44-7	Benzyl chloride	Same
P015	7440-41-7	Beryllium powder	Same
P017	598-31-2	Bromoacetone	Same
P018	357-57-3	Brucine	Same
P045	39196-18-4	2-Butanone, 3,3-dimethyl-1-(methylthio)-, O- [methylamino)carbonyl] oxime	Thiofanox
P021	592-01-8	Calcium cyanide	Same
P021	592-01-8	Calcium cyanide Ca(CN)2	Calcium cyanide
P189	55285-14-8	Carbamic acid, [(dibutylamino)- thio]methyl-, 2,3-dihydro-2,2-dimethyl-7-benzofuranyl ester	Carbosulfan
P191	644-64-4	Carbamic acid, dimethyl-, 1-[(dimethyl-amino)carbonyl]- 5-methyl-1H- pyrazol-3-yl ester	Dimetilan
P192	119-38-0	Carbamic acid, dimethyl-, 3-methyl-1- (1- methylethyl)-1H- pyrazol-5-yl ester	Isolan
P190	1129-41-5	Carbamic acid, methyl-, 3-methylphenyl ester	Metolcarb
P127	1563-66-2	Carbofuran	Same
P022	75-15-0	Carbon disulfide	Same
P095	75-44-5	Carbonic dichloride	Phosgene
P189	55285-14-8	Carbosulfan	Same
P023	107-20-0	Chloroacetaldehyde	Same
P024	106-47-8	p-Chloroaniline	4-Chloroaniline
P026	5344-82-1	1-(o-Chlorophenyl)thiourea	2-Chlorophenylthiourea
P027	542-76-7	3-Chloropropionitrile	Same
P029	544-92-3	Copper cyanide	Same
P029	544-92-3	Copper cyanide Cu(CN)	Copper cyanide
P202	64-00-6	m-Cumenyl methylcarbamate	Phenol, 3(1-methylethyl)-,

Hazardous waste No.	Chemical abstracts No.	Substance	Common Name
			methylcarbamate
P030	57-12-5	Cyanides (soluble cyanide salts), not otherwise specified	Same
P031	460-19-5	Cyanogen	Same
P033	506-77-4	Cyanogen chloride	Same
P033	506-77-4	Cyanogen chloride (CN)Cl	Cyanogen chloride
P034	131-89-5	2-Cyclohexyl-4,6-dinitrophenol	2,4-Dinitro-6-cyclohexylphenol
P016	542-88-1	Dichloromethyl ether	Bis(chloromethyl) ether
P036	696-28-6	Dichlorophenylarsine	Same
P037	60-57-1	Dieldrin	Same
P038	692-42-2	Diethylarsine	Same
P041	311-45-5	Diethyl-p-nitrophenyl phosphate	Paraoxon
P040	297-97-2	O,O-Diethyl O-pyrazinyl phosphorothioate	Thionazin
P043	55-91-4	Diisopropylfluorophosphate (DFP)	Same
P004	309-00-2	1,4,5,8-Dimethanonaphthalene, 1,2,3,4,10,10-hexa- chloro-1,4,4a,5,8,8a,-hexahydro-, (1alpha,4alpha,4abeta,5alpha,8alpha,8abeta)-	Aldrin
P060	465-73-6	1,4,5,8-Dimethanonaphthalene, 1,2,3,4,10,10- hexa- chloro-1,4,4a,5,8,8a-hexahydro-, (1alpha,4alpha,4abeta,5beta,8beta,8abeta)-	Isodrin
P037		2,7:3,6-Dimethanonaphth[2,3-b]oxirene, 3,4,5,6,9,9-hexachloro-1a,2,2a,3,6,6a,7,7a-oct ahydro-, (1aalpha,2beta,2aalpha,3beta,6beta,6aalpha, 7b eta, 7aalpha)-	Dieldrin
P051		2,7:3,6-Dimethanonaphth [2,3-b]oxirene, 3,4,5,6,9,9-hexachloro-1a,2,2a,3,6,6a,7,7a-oct ahydro-, (1aalpha,2beta,2abeta,3alpha,6alpha,6abeta, 7b eta, 7aalpha)-, & metabolites	Endrin
P044	60-51-5	, , ,	Same
P046		alpha,alpha-Dimethylphenethylamine	Phentermine
P191	644-64-4	Dimetilan	Same
P047		4,6-Dinitro-o-cresol, & salts	Same
P048			Same
	88-85-7		Same
P085			Schradan

Hazardous waste No.	Chemical abstracts No.	Substance	Common Name
P111	107-49-3	Diphosphoric acid, tetraethyl ester	Tetraethyl pyrophosphate
P039	298-04-4	Disulfoton	Same
P049	541-53-7	Dithiobiuret	2,4-Dithiobiuret
P185	26419-73-8	1,3-Dithiolane-2-carboxaldehyde, 2,4- dimethyl-, O-[(methylamino)- carbonyl]oxime	Tirpate
P050	115-29-7	Endosulfan	Same
P088	145-73-3	Endothall	Same
P051	72-20-8	Endrin	Same
P051	72-20-8	Endrin, & metabolites	Same
P042	51-43-4	Epinephrine	Same
P031	460-19-5	Ethanedinitrile	Cyanogen
P066	16752-77-5	Ethanimidothioic acid, N-[[(methylamino)carbonyl]oxy]-, methyl ester	Methomyl
P194	23135-22-0	Ethanimidothioic acid, 2-(dimethylamino)-N-[[(methylamino) carbonyl]oxy]-2-oxo-, methyl ester.	Oxamyl
P101	107-12-0	Ethyl cyanide	Propionitrile Propionitrile
P054	151-56-4	Ethyleneimine	Same
P097	52-85-7	Famphur	Same
P056	7782-41-4	Fluorine	Same
P057	640-19-7	Fluoroacetamide	Same
P058	62-74-8	Fluoroacetic acid, sodium salt	Sodium fluoroacetate
P198	23422-53-9	Formetanate hydrochloride	Same
P197	17702-57-7	Formparanate	Same
P065	628-86-4	Fulminic acid, mercury(2+) salt (R,T)	Mercury fulminate
P059	76-44-8	Heptachlor	Same
P062	757-58-4	Hexaethyl tetraphosphate	Same
P116	79-19-6	Hydrazinecarbothioamide	1-Amino-2-thiourea
P068	60-34-4	Hydrazine, methyl-	Methyl hydrazine
P063	74-90-8	Hydrocyanic acid	Hydrogen cyanide
P063	74-90-8	Hydrogen cyanide	Same
P096	7803-51-2	Hydrogen phosphide	Phosphine
P060	465-73-6	Isodrin	Same
P192	119-38-0	Isolan	Same
P202	64-00-6	3-Isopropylphenyl N-methylcarbamate	m-Cumenyl methylcarbamate

Hazardous waste No.	Chemical abstracts No.	Substance	Common Name
P007	2763-96-4	3(2H)-Isoxazolone, 5-(aminomethyl)-	Muscimol
P196	15339-36-3	Manganese, bis(dimethylcarbamodithioato- S,S')-	Manganese dimethyldithiocarbamate
P196	15339-36-3	Manganese dimethyldithiocarbamate	Same
P092	62-38-4	Mercury, (acetato-O)phenyl-	Phenylmercury acetate
P065	628-86-4	Mercury fulminate (R,T)	Same
P082	62-75-9	Methanamine, N-methyl-N-nitroso-	N-Nitrosodimethylamine
P064	624-83-9	Methane, isocyanato-	Methyl isocyanate
P016	542-88-1	Methane, oxybis[chloro-	Bis(chloromethyl) ether
P112	509-14-8	Methane, tetranitro- (R)	Tetranitromethane
P118	75-70-7	Methanethiol, trichloro-	Trichloromethyl mercaptan
		Methanimidamide,	
P198	23422-53-9	N,N-dimethyl-N'-[3-[[(methylamino)-carbonyl] oxy]phenyl]-, monohydrochloride	Formetanate hydrochloride
		Methanimidamide, N,N-dimethyl-N'-[2-methyl-4-[[(methylamino) carbonyl]	
P197	17702-57-7	oxy]phenyl]-	Formparanate
		6,9-Methano-2,4,3-benzodioxathiepin, 6,7,8,9,10,10-	
P050	115-29-7	hexachloro-1,5,5a,6,9,9a-hexahydro-, 3-oxide	Endosulfan
P059	76-44-8	4,7-Methano-1H-indene, 1,4,5,6,7,8,8- heptachloro- 3a,4,7,7a-tetrahydro-	Heptachlor
P199	2032-65-7	Methiocarb	Same
P066	16752-77-5	Methomyl	Same
P068	60-34-4	Methyl hydrazine	Same
P064	624-83-9	Methyl isocyanate	Same
P069	75-86-5	2-Methyllactonitrile	Acetone cyanohydrin
P071	298-00-0	Methyl parathion	Same
P190	1129-41-5	Metolcarb	Same
P128	315-18-4	Mexacarbate	Same
P072	86-88-4	alpha-Naphthylthiourea	Same
P073	13463-39-3	Nickel carbonyl	Same
P073	13463-39-3	Nickel carbonyl Ni(CO) ₄ , (T-4)-	Nickel carbonyl
P074	557-19-7	Nickel cyanide	Same
P074	557-19-7	Nickel cyanide Ni(CN)2	Nickel cyanide

Hazardous waste No.	Chemical abstracts No.	Substance	Common Name
P075	¹ 54-11-5	Nicotine, & salts (this listing does not include patches, gums and lozenges that are FDA-approved over-the-counter nicotine replacement therapies).	Same
P076	10102-43-9	Nitric oxide	Same
P077	100-01-6	p-Nitroaniline	Same
P078	10102-44-0	Nitrogen dioxide	Same
P076	10102-43-9	Nitrogen oxide NO	Nitric Oxide
P078	10102-44-0	Nitrogen oxide NO2	Nitrogen dioxide
P081	55-63-0	Nitroglycerine (R)	Nitroglycerin
P082	62-75-9	N-Nitrosodimethylamine	Same
P084	4549-40-0	N-Nitrosomethylvinylamine	Same
P085	152-16-9	Octamethylpyrophosphoramide	Schradan
P087	20816-12-0	Osmium oxide OsO ₄ , (T-4)-	Osmium tetroxide
P087	20816-12-0	Osmium tetroxide	Same
P088	145-73-3	7-Oxabicyclo[2.2.1]heptane-2,3-dicarboxylic acid	Endothall
P194	23135-22-0	Oxamyl	Same
P089	56-38-2	Parathion	Same
P034	131-89-5	Phenol, 2-cyclohexyl-4,6-dinitro-	2,4-Dinitro-6-cyclohexylphenol
P128	315-18-4	Phenol, 4-(dimethylamino)-3,5-dimethyl-, methylcarbamate (ester)	Mexacarbate
P199	2032-65-7	Phenol, (3,5-dimethyl-4-(methylthio)-, methylcarbamate	Methiocarb
P048	51-28-5	Phenol, 2,4-dinitro-	2,4-Dinitrophenol
P047	¹ 534-52-1	Phenol, 2-methyl-4,6-dinitro-, & salts	4,6-Dinitro-o-cresol, & salts
P202	64-00-6	Phenol, 3-(1-methylethyl)-, methyl carbamate	m-Cumenyl methylcarbamate
P201	2631-37-0	Phenol, 3-methyl-5-(1-methylethyl)-, methyl carbamate	Promecarb
P020	88-85-7	Phenol, 2-(1-methylpropyl)-4,6-dinitro-	Dinoseb
P009	131-74-8	Phenol, 2,4,6-trinitro-, ammonium salt (R)	Ammonium picrate
P092	62-38-4	Phenylmercury acetate	Same
P093	103-85-5	Phenylthiourea	Same
P094	298-02-2	Phorate	Same
P095	75-44-5	Phosgene	Same
P096	7803-51-2	Phosphine	Same
P041	311-45-5	Phosphoric acid, diethyl 4-nitrophenyl ester	Paraoxon

Hazardous waste No.	Chemical abstracts No.	Substance	Common Name
P039	298-04-4	Phosphorodithioic acid, O,O-diethyl S-[2- (ethylthio)ethyl] ester	Disulfoton
P094	298-02-2	Phosphorodithioic acid, O,O-diethyl S- [(ethylthio)methyl] ester	Phorate
P044	60-51-5	Phosphorodithioic acid, O,O-dimethyl S-[2- (methylamino)-2-oxoethyl] ester	Dimethoate
P043	55-91-4	Phosphorofluoridic acid, bis(1-methylethyl) ester	Diisopropylfluorophosphate (DFP)
P089	56-38-2	Phosphorothioic acid, O,O-diethyl O-(4- nitrophenyl) ester	Parathion
P040	297-97-2	Phosphorothioic acid, O,O-diethyl O-pyrazinyl ester	Thionazin
P097	52-85-7	Phosphorothioic acid, O-[4-[(dimethylamino)sulfonyl]phenyl] O,O- dimethyl ester	Famphur
P071	298-00-0	Phosphorothioic acid, O,O,-dimethyl O-(4- nitrophenyl) ester	Methyl parathion
P204	57-47-6	Physostigmine	Same
P188	57-64-7	Physostigmine salicylate	Same
P110	78-00-2	Plumbane, tetraethyl-	Tetraethyl lead
P098	151-50-8	Potassium cyanide	Same
P098	151-50-8	Potassium cyanide K(CN)	Potassium cyanide
P099	506-61-6	Potassium silver cyanide	Same
P201	2631-37-0	Promecarb	Same
P203	1646-88-4	Propanal, 2-methyl-2-(methyl-sulfonyl)-, O- [(methylamino) carbonyl] oxime	Aldicarb sulfone
P070	116-06-3	Propanal, 2-methyl-2-(methylthio)-, O- [(methylamino)carbonyl]oxime	Aldicarb
P101	107-12-0	Propanenitrile	Propionitrile
P027	542-76-7	Propanenitrile, 3-chloro-	3-Chloropropionitrile
P069	75-86-5	Propanenitrile, 2-hydroxy-2-methyl-	Acetone cyanohydrin
P081	55-63-0	1,2,3-Propanetriol, trinitrate (R)	Nitroglycerin
P017	598-31-2	2-Propanone, 1-bromo-	Bromoacetone
P102	107-19-7	Propargyl alcohol	Same
P003	107-02-8	2-Propenal	Acrolein
P005	107-18-6	2-Propen-1-ol	Allyl alcohol
P067	75-55-8	1,2-Propylenimine	Same
P102	107-19-7	2-Propyn-1-ol	Propargyl alcohol
P008	504-24-5	4-Pyridinamine	4-aminopyridine

Hazardous waste No.	Chemical abstracts No.	Substance	Common Name
P075	154-11-5	Pyridine, 3-(1-methyl-2-pyrrolidinyl)-, (S)-, & salts (this listing does not include patches, gums and lozenges that are FDA-approved over-the-counter nicotine replacement therapies).	Nicotine, & Nicotine salts
P204	57-47-6	Pyrrolo[2,3-b]indol-5-ol, 1,2,3,3a,8,8a-hexahydro-1,3a,8-trimethyl-, methylcarbamate (ester), (3aS-cis)-	Physostigmine
P114	12039-52-0	Selenious acid, dithallium(1+) salt	Thallium selenide
P103	630-10-4	Selenourea	Same
P104	506-64-9	Silver cyanide	Same
P104	506-64-9	Silver cyanide Ag(CN)	Silver cyanide
P105	26628-22-8	Sodium azide	Same
P106	143-33-9	Sodium cyanide	Same
P106	143-33-9	Sodium cyanide Na(CN)	Sodium cyanide
P108	¹ 57-24-9	Strychnidin-10-one, & salts	Strychnine, & salts
P018	357-57-3	Strychnidin-10-one, 2,3-dimethoxy-	Brucine
P108	¹ 57-24-9	Strychnine, & salts	Same
P115	7446-18-6	Sulfuric acid, dithallium(1+) salt	Thallous sulfate
P109	3689-24-5	Tetraethyldithiopyrophosphate	Dithion
P110	78-00-2	Tetraethyl lead	Same
P111	107-49-3	Tetraethyl pyrophosphate	Same
P112	509-14-8	Tetranitromethane (R)	Same
P062	757-58-4	Tetraphosphoric acid, hexaethyl ester	Hexaethyl tetraphosphate
P113	1314-32-5	Thallic oxide	Same
P113	1314-32-5	Thallium oxide Tl2O3	Thallic oxide
P114	12039-52-0	Thallium(I) selenite	Thallium selenide
P115	7446-18-6	Thallium(I) sulfate	Same
P109	3689-24-5	Thiodiphosphoric acid, tetraethyl ester	Dithion
P045	39196-18-4	Thiofanox	Same
P049	541-53-7	Thioimidodicarbonic diamide [(H ₂ N)C(S)] ₂ NH	2,4-Dithiobiuret
P014	108-98-5	Thiophenol	Same
P116	79-19-6	Thiosemicarbazide	1-amino-2-thiourea
P026	5344-82-1	Thiourea, (2-chlorophenyl)-	N-(2-Chlorophenyl)thiourea
P072	86-88-4	Thiourea, 1-naphthalenyl-	alpha-Naphthylthiourea
P093	103-85-5	Thiourea, phenyl-	1-Phenyl-2-thiourea

Hazardous waste No.	Chemical abstracts No.	Substance	Common Name
P185	26419-73-8	Tirpate	Same
P123	8001-35-2	Toxaphene	Same
P118	75-70-7	Trichloromethanethiol	Trichloromethyl mercaptan
P119	7803-55-6	Vanadic acid, ammonium salt	Ammonium metavanadate
P120	1314-62-1	Vanadium oxide V₂O₅	Vanadium pentoxide
P120	1314-62-1	Vanadium pentoxide	Same
P084	4549-40-0	Vinylamine, N-methyl-N-nitroso-	N-Nitrosomethylvinylamine
P001	¹ 81-81-2	Warfarin, & salts, when present at concentrations greater than 0.3%	Same
P205	137-30-4	Zinc, bis(dimethylcarbamodithioato-S,S')-	Ziram
P121	557-21-1	Zinc cyanide	Same
P121	557-21-1	Zinc cyanide Zn(CN) ₂	Zinc cyanide
P122	1314-84-7	Zinc phosphide Zn₃P₂, when present at concentrations greater than 10% (R,T)	Same
P205	137-30-4	Ziram	Same
P9092	505-60-2	bis(2-chloroethyl)sulfide (Residues resulting from treatment of this waste are included in the K901 listing and do not carry the P909 code. Soils, water, debris, or containers contaminated with this waste are included in the K902 listing and do not carry the P909 code.)	Mustard, Mustard Agent, Mustard Gas, H, HD
	505-60-2,	bis(2-chloroethyl)sulfide and bis (2-chloroethylthio)ethyl ether (Residues resulting from treatment of this waste are included in the K901 listing and do not carry the P910 code. Soils, water, debris, or containers contaminated with this waste are included in the K902 listing and do not carry the P910 code.)	Mustard, Mustard Agent, Mustard Gas, HT, Mustard T
P911	107-44-8	0-isopropyl methylphosphonofluoridate (Residues resulting from treatment of this waste are included in the K901 listing and do not carry the P911 code. Soils, water, debris, or containers contaminated with this waste are included in the K902 listing and do not carry the P911 code.)	GB, Sarin

FOOTNOTE: ¹CAS Number given for parent compound only.

² H- Mustard made by the Levinstein process; typically has 25% impurities.

HD- Distilled mustard containing 5% impurities.

HT- 60:40 mixture of HD and T.

T- bis(2-chloroethylthio)ethyl ether.

(f) The commercial chemical products, manufacturing chemical intermediates, or off specification commercial chemical products referred to in paragraphs (a) through (d) of this section, are identified as toxic wastes (T), unless otherwise designated.

[Comment: For the convenience of the regulated community, 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 only listed for toxicity. Wastes are first listed in alphabetical order by substance and then listed again in numerical order by Hazardous Waste Number.]]

These wastes and their corresponding EPA Hazardous Waste Numbers are:

Hazardous waste No.	Chemical abstracts No.	Substance	Common Name
U394	30558-43-1	A2213	Same
U001	75-07-0	Acetaldehyde (I)	Same
U034	75-87-6	Acetaldehyde, trichloro-	Chloral
U187	62-44-2	Acetamide, N-(4-ethoxyphenyl)-	Phenacetin
U005	53-96-3	Acetamide, N-9H-fluoren-2-yl-	2-Acetylaminofluorene
U240	194-75-7	Acetic acid, (2,4-dichlorophenoxy)-, salts & esters	2,4-D
U112	141-78-6	Acetic acid ethyl ester (I)	Ethyl acetate
U144	301-04-2	Acetic acid, lead(2+) salt	Lead acetate
U214	563-68-8	Acetic acid, thallium(1+) salt	Thallium (I) acetate
see F027	93-76-5	Acetic acid, (2,4,5-trichlorophenoxy)-	2,4,5-T
U002	67-64-1	Acetone (I)	Same
U003	75-05-8	Acetonitrile (I,T)	Same
U004	98-86-2	Acetophenone	Same
U005	53-96-3	2-Acetylaminofluorene	Same
U006	75-36-5	Acetyl chloride (C,R,T)	Same
U007	79-06-1	Acrylamide	Same
U008	79-10-7	Acrylic acid (I)	Same
U009	107-13-1	Acrylonitrile	Same
U011	61-82-5	Amitrole	Same
U012	62-53-3	Aniline (I,T)	Same
U136	75-60-5	Arsinic acid, dimethyl-	Dimethylarsenic acid
U014	492-80-8	Auramine	Same
U015	115-02-6	Azaserine	Same
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)]-	Mitomycin C
U280	101-27-9	Barban	Same
U278	22781-23-3	Bendiocarb	Same
U364	22961-82-6	Bendiocarb phenol	Same
U271	17804-35-2	Benomyl	Same
U157	56-49-5	Benz[j]aceanthrylene, 1,2-dihydro-3-methyl-	3-Methylcholanthrene

Hazardous waste No.	Chemical abstracts No.	Substance	Common Name
U016	225-51-4	Benz[c]acridine	Same
U017	98-87-3	Benzal chloride	Same
U192	23950-58-5	Benzamide, 3,5-dichloro-N-(1,1-dimethyl-2- propynyl)-	Pronamide
U018	56-55-3	Benz[a]anthracene	Same
U094	57-97-6	Benz[a]anthracene, 7,12-dimethyl-	7,12- Dimethylbenz[a]anthracene
U012	62-53-3	Benzenamine (I,T)	Aniline
U014	492-80-8	Benzenamine, 4,4'-carbonimidoylbis[N,N- dimethyl-	Auramine
U049	3165-93-3	Benzenamine, 4-chloro-2-methyl-, hydrochloride	4-Chloro-o-toluidine hydrochloride
U093	60-11-7	Benzenamine, N,N-dimethyl-4-(phenylazo)-	4- (Dimethylamino)azobenzene
U328	95-53-4	Benzenamine, 2-methyl-	2-aminotoluene
U353	106-49-0	Benzenamine, 4-methyl-	4-aminotoluene
U158	101-14-4	Benzenamine, 4,4'-methylenebis[2-chloro-	4,4'-Methylenebis(2- chloroaniline)
U222	636-21-5	Benzenamine, 2-methyl-, hydrochloride	2-Methylaniline hydrochloride
U181	99-55-8	Benzenamine, 2-methyl-5-nitro-	5-Nitro-o-toluidine
U019	71-43-2	Benzene (I,T)	Same
U038	510-15-6	Benzeneacetic acid, 4-chloro-alpha-(4- chlorophenyl)-alpha-hydroxy-, ethyl ester	Chlorobenzilate
U030	101-55-3	Benzene, 1-bromo-4-phenoxy-	4-Bromophenyl phenyl ether
U035	305-03-3	Benzenebutanoic acid, 4-[bis(2- chloroethyl)amino]-	Chlorambucil
U037	108-90-7	Benzene, chloro-	Chlorobenzene
U221	25376-45-8	Benzenediamine, ar-methyl-	Toluenediamine
U028	117-81-7	1,2-Benzenedicarboxylic acid, bis(2- ethylhexyl) ester	Diethylhexyl phthalate
U069	84-74-2	1,2-Benzenedicarboxylic acid, dibutyl ester	Dibutyl phthalate
U088	84-66-2	1,2-Benzenedicarboxylic acid, diethyl ester	Diethyl phthalate
U102	131-11-3	1,2-Benzenedicarboxylic acid, dimethyl ester	Dimethyl phthalate
U107	117-84-0	1,2-Benzenedicarboxylic acid, dioctyl ester	Di-n-octyl phthalate
U070	95-50-1	Benzene, 1,2-dichloro-	1,2-Dichlorobenzene
U071	541-73-1	Benzene, 1,3-dichloro-	1,3-Dichlorobenzene
U072	106-46-7	Benzene, 1,4-dichloro-	1,4-Dichlorobenzene

Hazardous waste No.	Chemical abstracts No.	Substance	Common Name
U060		Benzene, 1,1'-(2,2-dichloroethylidene)bis[4-chloro-	DDD
U017	98-87-3	Benzene, (dichloromethyl)-	Benzal chloride
U223	26471-62-5	Benzene, 1,3-diisocyanatomethyl- (R,T)	Toluene diisocyanate
U239	1330-20-7	Benzene, dimethyl- (I,T)	Xylene
U201	108-46-3	1,3-Benzenediol	Resorcinol
U127	118-74-1	Benzene, hexachloro-	Hexachlorobenzene
U056	110-82-7	Benzene, hexahydro- (I)	Cyclohexane
U220	108-88-3	Benzene, methyl-	Toluene
U105	121-14-2	Benzene, 1-methyl-2,4-dinitro-	2,4-Dinitrotoluene
U106	606-20-2	Benzene, 2-methyl-1,3-dinitro-	2,6-Dinitrotoluene
U055	98-82-8	Benzene, (1-methylethyl)- (I)	Cumene
U169	98-95-3	Benzene, nitro-	Nitrobenzene
U183	608-93-5	Benzene, pentachloro-	Pentachlorobenzene
U185	82-68-8	Benzene, pentachloronitro-	Pentachloronitrobenzene (PCNB)
U020	98-09-9	Benzenesulfonic acid chloride (C,R)	Benzenesulfonyl chloride
U020	98-09-9	Benzenesulfonyl chloride (C,R)	Same
U207	95-94-3	Benzene, 1,2,4,5-tetrachloro-	1,2,4,5-Tetrachlorobenzene
U061	50-29-3	Benzene, 1,1'-(2,2,2-trichloroethylidene)bis[4- chloro-	DDT
U247	72-43-5	Benzene, 1,1'-(2,2,2-trichloroethylidene)bis[4- methoxy-	Methoxychlor
U023	98-07-7	Benzene, (trichloromethyl)-	Benzotrichloride
U234	99-35-4	Benzene, 1,3,5-trinitro-	1,3,5-Trinitrobenzene
U021	92-87-5	Benzidine	Same
U278	22781-23-3	1,3-Benzodioxol-4-ol, 2,2-dimethyl-, methyl carbamate	Bendiocarb
U364	22961-82-6	1,3-Benzodioxol-4-ol, 2,2-dimethyl-	Bendiocarb phenol
U203	94-59-7	1,3-Benzodioxole, 5-(2-propenyl)-	Safrole
U141	120-58-1	1,3-Benzodioxole, 5-(1-propenyl)-	Isosafrole
U090	94-58-6	1,3-Benzodioxole, 5-propyl-	Dihydrosafrole
U367	1563-38-8	7-Benzofuranol, 2,3-dihydro-2,2-dimethyl	Carbofuran phenol
U064	189-55-9	Benzo[rst]pentaphene	Dibenzo[a,i]pyrene
U248	¹ 81-81-2	2H-1-Benzopyran-2-one, 4-hydroxy-3-(3-oxo- 1- phenyl-butyl)-, & salts, when present at concentrations of 0.3% or less	Warfarin

Hazardous waste No.	Chemical abstracts No.	Substance	Common Name
U022	50-32-8	Benzo[a]pyrene	Same
U197	106-51-4	p-Benzoquinone	1,4-Benzoquinone
U023	98-07-7	Benzotrichloride (C,R,T)	Same
U085	1464-53-5	2,2'-Bioxirane	1,2:3,4-Diepoxybutane
U021	92-87-5	[1,1'-Biphenyl]-4,4'-diamine	Benzidine
U073	91-94-1	[1,1'-Biphenyl]-4,4'-diamine, 3,3'-dichloro-	3,3'-Dichlorobenzidine
U091	119-90-4	[1,1'-Biphenyl]-4,4'-diamine, 3,3'-dimethoxy-	3,3'-Dimethoxybenzidine
U095	119-93-7	[1,1'-Biphenyl]-4,4'-diamine, 3,3'-dimethyl-	3,3'-Dimethylbenzidine
U225	75-25-2	Bromoform	Tribromomethane
U030	101-55-3	4-Bromophenyl phenyl ether	P-Bromophenyl phenyl ether
U128	87-68-3	1,3-Butadiene, 1,1,2,3,4,4-hexachloro-	Hexachloro-1,3-butadiene
U172	924-16-3	1-Butanamine, N-butyl-N-nitroso-	N-N-Dibutylnitrosoamine
U031	71-36-3	1-Butanol (I)	N-Butyl alcohol
U159	78-93-3	2-Butanone (I,T)	Methyl ethyl ketone (MEK)
U160	1338-23-4	2-Butanone, peroxide (R,T)	Methyl ethyl ketone peroxide
U053	4170-30-3	2-Butenal	Crotonaldehyde
U074	764-41-0	2-Butene, 1,4-dichloro- (I,T)	1,4-Dichloro-2-butene
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]]-	Lasiocarpine
U031	71-36-3	n-Butyl alcohol (I)	Butanol
U136	75-60-5		Same
U032	13765-19-0	Calcium chromate	Same
U372	10605-21-7	Carbamic acid, 1H-benzimidazol-2-yl, methyl ester	Carbendazim
U271	17804-35-2	Carbamic acid, [1-[(butylamino)carbonyl]-1H- benzimidazol-2-yl]-, methyl ester	Benomyl
U280	101-27-9	Carbamic acid, (3-chlorophenyl)-, 4-chloro-2- butynyl ester	Barban
U238	51-79-6	Carbamic acid, ethyl ester	Ethyl carbamate (urethane)
U178	615-53-2	Carbamic acid, methylnitroso-, ethyl ester	N-Nitroso-N-methylurethane
U373	122-42-9	Carbamic acid, phenyl-, 1-methylethyl ester	Propham
U409	23564-05-8	Carbamic acid, [1,2-phenylenebis (iminocarbonothioyl)]bis-, dimethyl ester	Thiophanate-methyl
U097	79-44-7	Carbamic chloride, dimethyl-	Dimethylcarbamoyl chloride

Hazardous waste No.	Chemical abstracts No.	Substance	Common Name
U114	¹ 111-54-6	Carbamodithioic acid, 1,2-ethanediylbis-, salts & esters	Ethylenebisdithiocarbamic acid
U062	2303-16-4	Carbamothioic acid, bis(1-methylethyl)-, S- (2,3-dichloro-2-propenyl) ester	Diallate
U389	2303-17-5	Carbamothioic acid, bis(1-methylethyl)-, S- (2,3,3-trichloro-2-propenyl) ester	Triallate
U387	52888-80-9	Carbamothioic acid, dipropyl-, S- (phenylmethyl) ester	Prosulfocarb
U279	63-25-2	Carbaryl	Same
U372	10605-21-7	Carbendazim	Same
U367	1563-38-8	Carbofuran phenol	Same
U215	6533-73-9	Carbonic acid, dithallium(1+) salt	Thallium (I) carbonate
U033	353-50-4	Carbonic difluoride	Carbon oxyfluoride
U156	79-22-1	Carbonochloridic acid, methyl ester (I,T)	Methyl chlorocarbonate
U033	353-50-4	Carbon oxyfluoride (R,T)	Same
U211	56-23-5	Carbon tetrachloride	Same
U034	75-87-6	Chloral	Same
U035	305-03-3	Chlorambucil	Same
U036	57-74-9	Chlordane, alpha & gamma isomers	Same
U026	494-03-1	Chlornaphazin	Same
U037	108-90-7	Chlorobenzene	Same
U038	510-15-6	Chlorobenzilate	Same
U039	59-50-7	p-Chloro-m-cresol	Same
U042	110-75-8	2-Chloroethyl vinyl ether	Same
U044	67-66-3	Chloroform	Same
U046	107-30-2	Chloromethyl methyl ether	Same
U047	91-58-7	beta-Chloronaphthalene	Same
U048	95-57-8	o-Chlorophenol	Same
U049	3165-93-3	4-Chloro-o-toluidine, hydrochloride	Same
U032	13765-19-0	Chromic acid H2CrO4, calcium salt	Calcium chromate
U050	218-01-9	Chrysene	Same
U051		Creosote	Same
U052	1319-77-3	Cresol (Cresylic acid)	Same
	4170-30-3	Crotonaldehyde	Same
	98-82-8	Cumene (I)	Same
	506-68-3	Cyanogen bromide (CN)Br	Cyanogen bromide

Hazardous waste No.	Chemical abstracts No.	Substance	Common Name
U197	106-51-4	2,5-Cyclohexadiene-1,4-dione	1,4-Benzoquinone
U056	110-82-7	Cyclohexane (I)	Same
11400	F0 00 0	Cyclohexane, 1,2,3,4,5,6-hexachloro-	
	58-89-9	,(1alpha,2alpha,3beta,4alpha,5alpha,6beta)-	Lindane
U057	108-94-1	Cyclohexanone (I)	Same
U130	77-47-4	1,3-Cyclopentadiene, 1,2,3,4,5,5-hexachloro-	Hexachlorocyclopentadiene
	50-18-0	Cyclophosphamide	Same
U240		2,4-D, salts & esters	Same
		Daunomycin	Same
U060	72-54-8	DDD	Same
U061	50-29-3	DDT	Same
U062	2303-16-4	Diallate	Same
U063	53-70-3	Dibenz[a,h]anthracene	Same
U064	189-55-9	Dibenzo[a,i]pyrene	Same
U066	96-12-8	1,2-Dibromo-3-chloropropane	Same
U069	84-74-2	Dibutyl phthalate	Same
U070	95-50-1	o-Dichlorobenzene	Same
U071	541-73-1	m-Dichlorobenzene	Same
U072	106-46-7	p-Dichlorobenzene	Same
U073	91-94-1	3,3'-Dichlorobenzidine	Same
U074	764-41-0	1,4-Dichloro-2-butene (I,T)	Same
U075	75-71-8	Dichlorodifluoromethane	Same
U078	75-35-4	1,1-Dichloroethylene	Same
U079	156-60-5	1,2-Dichloroethylene	Same
U025	111-44-4	Dichloroethyl ether	Same
U027	108-60-1	Dichloroisopropyl ether	Same
U024	111-91-1	Dichloromethoxy ethane	Same
U081	120-83-2	2,4-Dichlorophenol	Same
		2,6-Dichlorophenol	Same
U084	542-75-6	1,3-Dichloropropene	Same
U085	1464-53-5	1,2:3,4-Diepoxybutane (I,T)	Same
	5952-26-1	Diethylene glycol, dicarbamate	Same
U108	123-91-1	1,4-Diethyleneoxide	Same
U028		Diethylhexyl phthalate	Same

Hazardous waste No.	Chemical abstracts No.	Substance	Common Name
U086	1615-80-1	N,N'-Diethylhydrazine	Same
U087	3288-58-2	O,O-Diethyl S-methyl dithiophosphate	Same
U088	84-66-2	Diethyl phthalate	Same
U089	56-53-1	Diethylstilbesterol	Same
U090	94-58-6	Dihydrosafrole	Same
U091	119-90-4	3,3'-Dimethoxybenzidine	Same
U092	124-40-3	Dimethylamine (I)	Same
U093	60-11-7	p-Dimethylaminoazobenzene	Same
U094	57-97-6	7,12-Dimethylbenz[a]anthracene	Same
U095	119-93-7	3,3'-Dimethylbenzidine	Same
U096	80-15-9	alpha,alpha-Dimethylbenzylhydroperoxide (R)	Cumene hydroperoxide
U097	79-44-7	Dimethylcarbamoyl chloride	Same
U098	57-14-7	1,1-Dimethylhydrazine	Same
U099	540-73-8	1,2-Dimethylhydrazine	Same
U101	105-67-9	2,4-Dimethylphenol	Same
U102	131-11-3	Dimethyl phthalate	Same
U103	77-78-1	Dimethyl sulfate	Same
U105	121-14-2	2,4-Dinitrotoluene	Same
U106	606-20-2	2,6-Dinitrotoluene	Same
U107	117-84-0	Di-n-octyl phthalate	Same
U108	123-91-1	1,4-Dioxane	Same
U109	122-66-7	1,2-Diphenylhydrazine	Same
U110	142-84-7	Dipropylamine (I)	Same
U111	621-64-7	Di-n-propylnitrosamine	Same
U041	106-89-8	Epichlorohydrin	Same
U001	75-07-0	Ethanal (I)	Acetaldehyde
U404	121-44-8	Ethanamine, N,N-diethyl-	Triethylamine
U174	55-18-5	Ethanamine, N-ethyl-N-nitroso-	N-Nitrosodiethylamine
U155	91-80-5	1,2-Ethanediamine, N,N-dimethyl-N'-2- pyridinyl- N'-(2-thienylmethyl)-	Methapyrilene
U067	106-93-4	Ethane, 1,2-dibromo-	Ethylene dibromide
U076	75-34-3	Ethane, 1,1-dichloro-	1,1-Dichloroethane
U077	107-06-2	Ethane, 1,2-dichloro-	1,2-Dichloroethane
U131	67-72-1	Ethane, hexachloro-	Hexachloroethane

Hazardous waste No.	Chemical abstracts No.	Substance	Common Name
U024	111-91-1	Ethane, 1,1'-[methylenebis(oxy)]bis[2-chloro-	Dichloromethoxy ethane
U117	60-29-7	Ethane, 1,1'-oxybis-(I)	Ethyl ether
U025	111-44-4	Ethane, 1,1'-oxybis[2-chloro-	Dichloroethyl ether
U184	76-01-7	Ethane, pentachloro-	Pentachloroethane
U208	630-20-6	Ethane, 1,1,1,2-tetrachloro-	1,1,1,2-Tetrachloroethane
U209	79-34-5	Ethane, 1,1,2,2-tetrachloro-	1,1,2,2-Tetrachloroethane
U218	62-55-5	Ethanethioamide	Thioacetamide
U226	71-55-6	Ethane, 1,1,1-trichloro-	1,1,1-Trichloroethane
U227	79-00-5	Ethane, 1,1,2-trichloro-	1,1,2-Trichloroethane
U410	59669-26-0	Ethanimidothioic acid, N,N'- [thiobis[(methylimino)carbonyloxy]] bis-, dimethyl ester Ethanimidothioic acid, 2-(dimethylamino)-N-	Thiodicarb
U394	30558-43-1	hydroxy-2-oxo-, methyl ester	A2213
U359	110-80-5	Ethanol, 2-ethoxy-	Ethylene glycol monoethyl ether
U173	1116-54-7	Ethanol, 2,2'-(nitrosoimino)bis-	N-Nitrosodiethanolamine
U395	5952-26-1	Ethanol, 2,2'-oxybis-, dicarbamate	Diethylene glycol, dicarbamate
U004	98-86-2	Ethanone, 1-phenyl-	Acetophenone
U043	75-01-4	Ethene, chloro-	Vinyl chloride
U042	110-75-8	Ethene, (2-chloroethoxy)-	2-Chloroethyl vinyl ether
U078	75-35-4	Ethene, 1,1-dichloro-	1,1-Dichloroethylene
U079	156-60-5	Ethene, 1,2-dichloro-, (E)-	1,2-Dichloroethylene
U210	127-18-4	Ethene, tetrachloro-	Tetrachloroethylene
U228	79-01-6	Ethene, trichloro-	Trichloroethylene
U112	141-78-6	Ethyl acetate (I)	Same
U113	140-88-5	Ethyl acrylate (I)	Same
U238	51-79-6	Ethyl carbamate (urethane)	Same
U117	60-29-7	Ethyl ether (I)	Same
U114	¹ 111-54-6	Ethylenebisdithiocarbamic acid, salts & esters	Same
U067	106-93-4	Ethylene dibromide	Same
U077	107-06-2	Ethylene dichloride	Same
U359	110-80-5	Ethylene glycol monoethyl ether	Same
U115	75-21-8	Ethylene oxide (I,T)	Same
U116	96-45-7	Ethylenethiourea	Same

Hazardous waste No.		Substance	Common Name
U076	75-34-3	Ethylidene dichloride	Same
U118	97-63-2	Ethyl methacrylate	Same
U119	62-50-0	Ethyl methanesulfonate	Same
U120	206-44-0	Fluoranthene	Same
U122	50-00-0	Formaldehyde	Same
U123	64-18-6	Formic acid (C,T)	Same
U124	110-00-9	Furan (I)	Same
U125	98-01-1	2-Furancarboxaldehyde (I)	Furfural
U147	108-31-6	2,5-Furandione	Maleic anhydride
U213	109-99-9	Furan, tetrahydro-(I)	Tetrahydrofuran
U125	98-01-1	Furfural (I)	Same
U124	110-00-9	Furfuran (I)	Same
U206	18883-66-4	Glucopyranose, 2-deoxy-2-(3-methyl-3- nitrosoureido)-, D-	Streptozotocin
U206	18883-66-4	D-Glucose, 2-deoxy-2-[[(methylnitrosoamino)- carbonyl]amino]-	Streptozotocin
U126	765-34-4	Glycidylaldehyde	Same
U163	70-25-7	Guanidine, N-methyl-N'-nitro-N-nitroso-	MNNG
U127	118-74-1	Hexachlorobenzene	Same
U128	87-68-3	Hexachlorobutadiene	Same
U130	77-47-4	Hexachlorocyclopentadiene	Same
U131	67-72-1	Hexachloroethane	Same
U132	70-30-4	Hexachlorophene	Same
U243	1888-71-7	Hexachloropropene	Same
U133	302-01-2	Hydrazine (R,T)	Same
U086	1615-80-1	Hydrazine, 1,2-diethyl-	N,N-Diethylhydrazine
U098	57-14-7	Hydrazine, 1,1-dimethyl-	1,1-Dimethylhydrazine
U099	540-73-8	Hydrazine, 1,2-dimethyl-	1,2-Dimethylhydrazine
U109	122-66-7	Hydrazine, 1,2-diphenyl-	1,2-Diphenylhydrazine
U134	7664-39-3	Hydrofluoric acid (C,T)	Same
U134	7664-39-3	Hydrogen fluoride (C,T)	Hydrofluoric acid
U135	7783-06-4	Hydrogen sulfide	Same
U135	7783-06-4	Hydrogen sulfide H₂S	Same
U096	80-15-9	Hydroperoxide, 1-methyl-1-phenylethyl- (R)	Cumene hydroperoxide

Hazardous waste No.	Chemical abstracts No.	Substance	Common Name
U116	96-45-7	2-Imidazolidinethione	Ethylene thiourea
U137	193-39-5	Indeno[1,2,3-cd]pyrene	Same
U190	85-44-9	1,3-Isobenzofurandione	Phthalic anhydride
U140	78-83-1	Isobutyl alcohol (I,T)	Same
U141	120-58-1	Isosafrole	Same
U142	143-50-0	Kepone	Same
U143	303-34-4	Lasiocarpine	Same
U144	301-04-2	Lead acetate	Same
U146	1335-32-6	Lead, bis(acetato-O)tetrahydroxytri-	Lead subacetate
U145	7446-27-7	Lead phosphate	Same
U146	1335-32-6	Lead subacetate	Same
U129	58-89-9	Lindane	Same
U163	70-25-7	MNNG	Same
U147	108-31-6	Maleic anhydride	Same
U148	123-33-1	Maleic hydrazide	Same
U149	109-77-3	Malononitrile	Same
U150	148-82-3	Melphalan	Same
U151	7439-97-6	Mercury	Same
U152	126-98-7	Methacrylonitrile (I, T)	Same
U092	124-40-3	Methanamine, N-methyl- (I)	Dimethylamine
U029	74-83-9	Methane, bromo-	Methyl bromide
U045	74-87-3	Methane, chloro- (I, T)	Methyl chloride
U046	107-30-2	Methane, chloromethoxy-	Chloromethyl methyl ether
U068	74-95-3	Methane, dibromo-	Dibromomethane
U080	75-09-2	Methane, dichloro-	Dichloromethane
U075	75-71-8	Methane, dichlorodifluoro-	Dichlorodifluoromethane
U138	74-88-4	Methane, iodo-	lodomethane
U119	62-50-0	Methanesulfonic acid, ethyl ester	Ethyl methane sulfonate
U211	56-23-5	Methane, tetrachloro-	Carbon tetrachloride
U153	74-93-1	Methanethiol (I, T)	Methyl mercaptan
U225	75-25-2	Methane, tribromo-	Tribromomethane
U044	67-66-3	Methane, trichloro-	Chloroform
U121	75-69-4	Methane, trichlorofluoro-	Trichlorofluoromethane

Hazardous waste No.	Chemical abstracts No.	Substance	Common Name
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-	Chlordane
U154	67-56-1	Methanol (I)	Same
U155	91-80-5	 Methapyrilene	Same
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-	Chlordecone
U247	72-43-5	Methoxychlor	Same
U154	67-56-1	Methyl alcohol (I)	Methanol
U029	74-83-9	Methyl bromide	Same
U186	504-60-9	1-Methylbutadiene (I)	1,3-Pentadiene
U045	74-87-3	Methyl chloride (I,T)	Same
U156	79-22-1	Methyl chlorocarbonate (I,T)	Same
U226	71-55-6	Methyl chloroform	1,1,1-Trichloroethane
U157	56-49-5	3-Methylcholanthrene	Same
U158	101-14-4	4,4'-Methylenebis(2-chloroaniline)	Same
U068	74-95-3	Methylene bromide	Dibromomethane
U080	75-09-2	Methylene chloride	Same
U159	78-93-3	Methyl ethyl ketone (MEK) (I,T)	Same
U160	1338-23-4	Methyl ethyl ketone peroxide (R,T)	Same
U138	74-88-4	Methyl iodide	Same
U161	108-10-1	Methyl isobutyl ketone (I)	Same
U162	80-62-6	Methyl methacrylate (I,T)	Same
U161	108-10-1	4-Methyl-2-pentanone (I)	Methyl isobutyl ketone
U164	56-04-2	Methylthiouracil	Same
U010	50-07-7	Mitomycin C	Same
U059	20830-81-3	5,12-Naphthacenedione, 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)-	Daunomycin
U167	134-32-7	1-Naphthalenamine	Same
U168	91-59-8	2-Naphthalenamine	Same
U026	494-03-1	Naphthalenamine, N,N'-bis(2-chloroethyl)-	Chlornaphazine
U165	91-20-3	Naphthalene	Same
U047	91-58-7	Naphthalene, 2-chloro-	2-Chloronaphthalene
U166	130-15-4	1,4-Naphthalenedione	1,4-Naphthoquinone

Hazardous waste No.	Chemical abstracts No.	Substance	Common Name
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	
U279	63-25-2	1-Naphthalenol, methylcarbamate	Trypan blue
U166	130-15-4	1,4-Naphthoquinone	Carbaryl
U167	134-32-7	alpha-Naphthylamine	Same
U168	91-59-8	beta-Naphthylamine	Same
U217	10102-45-1	Nitric acid, thallium(1+) salt	Thallous nitrate
U169	98-95-3	Nitrobenzene (I,T)	Same
U170	100-02-7	p-Nitrophenol	Same
U171	79-46-9	2-Nitropropane (I,T)	Same
U172	924-16-3	N-Nitrosodi-n-butylamine	N,N-DibutyInitrosoamine
U173	1116-54-7	N-Nitrosodiethanolamine	Same
U174	55-18-5	N-Nitrosodiethylamine	Same
U176	759-73-9	N-Nitroso-N-ethylurea	Same
U177	684-93-5	N-Nitroso-N-methylurea	Same
U178	615-53-2	N-Nitroso-N-methylurethane	Same
U179	100-75-4	N-Nitrosopiperidine	Same
U180	930-55-2	N-Nitrosopyrrolidine	Same
U181	99-55-8	5-Nitro-o-toluidine	Same
U193	1120-71-4	1,2-Oxathiolane, 2,2-dioxide	1,3-Propane sultone
U058	50-18-0	2H-1,3,2-Oxazaphosphorin-2-amine, N,N- bis(2- chloroethyl)tetrahydro-, 2-oxide	Cyclophosphamide
U115	75-21-8	Oxirane (I,T)	Ethylene oxide
U126	765-34-4	Oxiranecarboxyaldehyde	Glycidaldehyde
U041	106-89-8	Oxirane, (chloromethyl)-	Epichlorohydrin
U182	123-63-7	Paraldehyde	Same
U183	608-93-5	Pentachlorobenzene	Same
U184	76-01-7	Pentachloroethane	Same
U185	82-68-8	Pentachloronitrobenzene (PCNB)	Same
See F027	87-86-5	Pentachlorophenol	Same
U161	108-10-1	Pentanol, 4-methyl-	Methyl isobutyl ketone
U186	504-60-9	1,3-Pentadiene (I)	Same
U187	62-44-2	Phenacetin	Same
U188	108-95-2	Phenol	Same

Hazardous waste No.		Substance	Common Name
U048	95-57-8	Phenol, 2-chloro-	o-chlorophenol
U039	59-50-7	Phenol, 4-chloro-3-methyl-	p-chloro-m-cresol
U081	120-83-2	Phenol, 2,4-dichloro-	2,4-Dichlorophenol
U082	87-65-0	Phenol, 2,6-dichloro-	2,6-Dichlorophenol
U089	56-53-1	Phenol, 4,4'-(1,2-diethyl-1,2-ethenediyl)bis-, (E)-	Diethylstilbestrol
U101	105-67-9	Phenol, 2,4-dimethyl-	2,4-Dimethylphenol
U052	1319-77-3	Phenol, methyl-	Cresol (cresylic acid)
U132	70-30-4	Phenol, 2,2'-methylenebis[3,4,6-trichloro-	Hexachlorophene
U411	114-26-1	Phenol, 2-(1-methylethoxy)-,methylcarbamate	Propoxur
U170	100-02-7	Phenol, 4-nitro-	p-Nitrophenol
See F027	87-86-5	Phenol, pentachloro-	Pentachlorophenol
See F027	58-90-2	Phenol, 2,3,4,6-tetrachloro-	2,3,4,6-Tetrachlorophenol
See F027	95-95-4	Phenol, 2,4,5-trichloro-	2,4,5-Trichlorophenol
See F027	88-06-2	Phenol, 2,4,6-trichloro-	2,4,6-Trichlorophenol
U150	148-82-3	L-Phenylalanine, 4-[bis(2-chloroethyl)amino]-	Melphalan
U145	7446-27-7	Phosphoric acid, lead(2+) salt (2:3)	Lead phosphate
U087	3288-58-2	Phosphorodithioic acid, O,O-diethyl S-methyl ester	O,O-Diethyl S-methyl dithiophosphate
U189	1314-80-3	Phosphorus sulfide (R)	Phosphorus pentasulfide
U190	85-44-9	Phthalic anhydride	Same
U191	109-06-8	2-Picoline	Same
U179	100-75-4	Piperidine, 1-nitroso-	N-Nitrosopiperidine
U192	23950-58-5	Pronamide	Same
U194	107-10-8	1-Propanamine (I,T)	n-proylamine
U111	621-64-7	1-Propanamine, N-nitroso-N-propyl-	Di-n-propylnitrosamine
U110	142-84-7	1-Propanamine, N-propyl- (I)	Dipropylamine
U066	96-12-8	Propane, 1,2-dibromo-3-chloro-	1,2-Dibromo-3- chloropropane
U083	78-87-5	Propane, 1,2-dichloro-	Propylene dichloride
U149	109-77-3	Propanedinitrile	Malononitrile
U171	79-46-9	Propane, 2-nitro- (I,T)	2-Nitropropane
U027	108-60-1	Propane, 2,2'-oxybis[2-chloro-	Dichloroisopropyl ether
U193	1120-71-4	1,3-Propane sultone	Same
See F027	93-72-1	Propanoic acid, 2-(2,4,5-trichlorophenoxy)-	2,4,5-TP

Hazardous waste No.	Chemical abstracts No.	Substance	Common Name
U235	126-72-7	1-Propanol, 2,3-dibromo-, phosphate (3:1)	Tris(2,3-dibromopropyl) phosphate
U140	78-83-1	1-Propanol, 2-methyl- (I,T)	Isobutyl alcohol
U002	67-64-1	2-Propanone (I)	Acetone
U007	79-06-1	2-Propenamide	Acrylamide
U084	542-75-6	1-Propene, 1,3-dichloro-	1,3-Dichloropropene
U243	1888-71-7	1-Propene, 1,1,2,3,3,3-hexachloro-	Hexachloropropene
U009	107-13-1	2-Propenenitrile	Acrylonitrile
U152	126-98-7	2-Propenenitrile, 2-methyl- (I,T)	Methacrylonitrile
U008	79-10-7	2-Propenoic acid (I)	Acrylic acid
U113	140-88-5	2-Propenoic acid, ethyl ester (I)	Ethyl acrylate
U118	97-63-2	2-Propenoic acid, 2-methyl-, ethyl ester	Ethyl methacrylate
U162	80-62-6	2-Propenoic acid, 2-methyl-, methyl ester (I,T)	Methyl methacrylate
U373	122-42-9	Propham	Same
U411	114-26-1	Propoxur	Same
U194	107-10-8	n-Propylamine (I,T)	Same
U083	78-87-5	Propylene dichloride	Same
U387	52888-80-9	Prosulfocarb	Same
U148	123-33-1	3,6-Pyridazinedione, 1,2-dihydro-	Maleic hydrazide
U196	110-86-1	Pyridine	Same
U191	109-06-8	Pyridine, 2-methyl-	2-Picoline
U237	66-75-1	2,4-(1H,3H)-Pyrimidinedione, 5-[bis(2- chloroethyl)amino]-	Uracil mustard
U164		4(1H)-Pyrimidinone, 2,3-dihydro-6-methyl-2- thioxo-	Methylthiouracil
U180	930-55-2	Pyrrolidine, 1-nitroso-	n-Nitrosopyrrolidine
U200	50-55-5	Reserpine	Same
U201	108-46-3	Resorcinol	Same
U203	94-59-7	Safrole	Same
U204	7783-00-8	Selenious acid	Selenium dioxide
U204	7783-00-8	Selenium dioxide	Same
U205	7488-56-4	Selenium sulfide	Same
U205	7488-56-4	Selenium sulfide SeS ₂ (R,T)	Selenium (IV) disulfide
U015	115-02-6	L-Serine, diazoacetate (ester)	Azarserine
See F027	93-72-1	Silvex (2,4,5-TP)	Same

Hazardous waste No.	Chemical abstracts No.	Substance	Common Name
U206	18883-66-4	Streptozotocin	Same
U103	77-78-1	Sulfuric acid, dimethyl ester	Dimethyl sulfate
U189	1314-80-3	Sulfur phosphide (R)	Phosphorus pentasulfide
See F027	93-76-5	2,4,5-T	Same
U207	95-94-3	1,2,4,5-Tetrachlorobenzene	Same
U208	630-20-6	1,1,1,2-Tetrachloroethane	Same
U209	79-34-5	1,1,2,2-Tetrachloroethane	Same
U210	127-18-4	Tetrachloroethylene	Same
See F027	58-90-2	2,3,4,6-Tetrachlorophenol	Same
U213	109-99-9	Tetrahydrofuran (I)	Same
U214	563-68-8	Thallium(I) acetate	Same
U215	6533-73-9	Thallium(I) carbonate	Same
U216	7791-12-0	Thallium(I) chloride	Same
U216	7791-12-0	Thallium chloride TICI	Thallous chloride
U217	10102-45-1	Thallium(I) nitrate	Thallous nitrate
U218	62-55-5	Thioacetamide	Same
U410	59669-26-0	Thiodicarb	Same
U153	74-93-1	Thiomethanol (I,T)	Methyl mercaptan
U244	137-26-8	Thioperoxydicarbonic diamide [(H ₂ N)C(S)] ₂ S ₂ , tetramethyl-	Thiram
U409	23564-05-8	Thiophanate-methyl	Same
U219	62-56-6	Thiourea	Same
U244	137-26-8	Thiram	Same
U220	108-88-3	Toluene	Same
U221	25376-45-8	Toluenediamine	Same
U223	26471-62-5	Toluene diisocyanate (R,T)	Same
U328	95-53-4	o-Toluidine	Same
U353	106-49-0	p-Toluidine	Same
U222	636-21-5	o-Toluidine hydrochloride	Same
U389	2303-17-5	Triallate	Same
U011	61-82-5	1H-1,2,4-Triazol-3-amine	Amitrole
U227	79-00-5	1,1,2-Trichloroethane	Same
U228	79-01-6	Trichloroethylene	Same
U121	75-69-4	Trichloromonofluoromethane	Same

Hazardous waste No.		Substance	Common Name
See F027	95-95-4	2,4,5-Trichlorophenol	Same
See F027	88-06-2	2,4,6-Trichlorophenol	Same
U404	121-44-8	Triethylamine	Same
U234	99-35-4	1,3,5-Trinitrobenzene (R,T)	Same
U182	123-63-7	1,3,5-Trioxane, 2,4,6-trimethyl-	Paraldehyde
U235	126-72-7	Tris(2,3-dibromopropyl) phosphate	Same
U236	72-57-1	Trypan blue	Same
U237	66-75-1	Uracil mustard	Same
U176	759-73-9	Urea, N-ethyl-N-nitroso-	N-Nitroso-N-ethlurea
U177	684-93-5	Urea, N-methyl-N-nitroso-	N-Nitroso-N-methylurea
U043	75-01-4	Vinyl chloride	Same
U248	¹ 81-81-2	Warfarin, & salts, when present at concentrations of 0.3% or less	Same
U239	1330-20-7	Xylene (I)	Same
		Yohimban-16-carboxylic acid, 11,17- dimethoxy- 18-[(3,4,5-trimethoxybenzoyl)oxy]-	
U200	50-55-5	, methyl ester, (3beta,16beta,17alpha,18beta,20alpha)-	Reserpine
U249	1314-84-7	Zinc phosphide Zn ₃ P ₂ , when present at concentrations of 10% or less	Zinc phosphide

FOOTNOTE: ¹CAS Number given for parent compound only.

§ 261.35 Deletion of Certain Hazardous Waste Codes Following Equipment Cleaning and Replacement.

- (a) Wastes from wood preserving processes at plants that do not resume or initiate use of chlorophenolic preservatives will not meet the listing definition of F032 once the generator has met all of the requirements of paragraphs (b) and (c) of this section. These wastes may, however, continue to meet another hazardous waste listing description or may exhibit one or more of the hazardous waste characteristics.
- (b) Generators must either clean or replace all process equipment that may have come in contact with chlorophenolic formulations or constituents thereof, including, but not limited to: treatment cylinders, sumps, tanks, piping systems, drip pads, fork lifts, and trams in a manner which minimizes or eliminates the escape of hazardous waste or waste constituents, leachate, contaminated drippage, or hazardous waste decomposition products to the ground water, surface water, or atmosphere.
 - (1) Generators shall do one of the following:
 - (i) Prepare and follow an equipment cleaning plan and clean equipment in accordance with this section;
 - (ii) Prepare and follow an equipment replacement plan and replace equipment in accordance with this section; or
 - (iii) Document cleaning and replacement in accordance with this section, carried out after termination of use of chlorophenolic preservations.
 - (2) Cleaning Requirements.
 - (i) Prepare and sign a written equipment cleaning plan that describes:
 - (A) The equipment to be cleaned;
 - (B) How the equipment will be cleaned;
 - (C) The solvent to be used in cleaning;
 - (D) How solvent rinses will be tested; and
 - (E) How cleaning residues will be disposed.
 - (ii) Equipment must be cleaned as follows:
 - (A) Remove all visible residues from process equipment;
 - (B) Rinse process equipment with an appropriate solvent until dioxins and dibenzofurans are not detected in the final solvent rinse.
 - (iii) Analytical requirements.
 - (A) Rinses must be tested using an appropriate method.

- (B) "Not detected" means at or below the following lower method calibration limits (MCLs): The 2,3,7,8-TCDD-based MCL--0.01 parts per trillion (ppt), sample weight of 1000 g, IS spiking level of 1 ppt, final extraction volume of 10-50 μ L. For other congeners--multiply the values by 1 for TCDF/PeCDD/PeCDF, by 2.5 for HxCDD/HxCDF/HpCDD/HpCDF, and by 5 for OCDD/OCDF.
- (iv) The generator must manage all residues from the cleaning process as F032 waste.
- (3) Replacement requirements.
 - (i) Prepare and sign a written equipment replacement plan that describes:
 - (A) The equipment to be replaced;
 - (B) How the equipment will be replaced; and
 - (C) How the equipment will be disposed.
 - (ii) The generator must manage the discarded equipment as F032 waste.
- (4) Documentation requirements.
 - (i) Document that previous equipment cleaning and/or replacement was performed in accordance with this section and occurred after cessation of use of chlorophenolic preservatives.
- (c) The generator must maintain the following records documenting the cleaning and replacement as part of the facilities operating record:
 - (1) The name and address of the facility;
 - (2) Formulations previously used and the date on which their use ceased in each process at the plant;
 - (3) Formulations currently used in each process at the plant;
 - (4) The equipment cleaning or replacement plan;
 - (5) The name and address of any persons who conducted the cleaning and replacement;
 - (6) The dates on which the cleaning and replacement were accomplished;
 - (7) The dates of sampling and testing;
 - (8) A description of the sample handling and preparation techniques, including techniques used for extraction, containerization, preservation, and chain-of-custody of the samples;
 - (9) A description of the tests performed, the date the tests were performed, and the results of the tests:
 - (10) The name and model numbers of the instrument(s) used in performing the tests:
 - (11) QA/QC documentation; and

(12) The following statement signed by the generator or his/her authorized representative:

I certify under penalty of law that all process equipment required to be cleaned or replaced under § 261.35 of these regulations was cleaned or replaced as represented in the equipment cleaning and replacement plan and accompanying documentation. I am aware that there are significant penalties for providing false information, including the possibility of fine or imprisonment.

Appendix I Representative Sampling Methods

The methods and equipment used for sampling waste materials will vary with the form and consistency of the waste materials to be sampled. Samples collected using the sampling protocols listed below, for sampling waste with properties similar to the indicated materials, will be considered by the Department to be representative of the wastes.

Extremely viscous liquid – ASTM Standard D140-70

Crushed or powdered material – ASTM Standard D346-75

Soil or rock like material - ASTM Standard D420-69

Soil like material – ASTM Standard D-1452 65

Fly ash like material – ASTM Standard D2234-76

[ASTM Standards are available from ASTM, 1916 Race St., Philadelphia, PA. 19103]

Containerized liquid wastes "COLIWASA"

Liquid waste in pits, ponds, lagoons, and similar reservoirs. - "Pond Sampler."

This manual also contains additional information on application of these protocols.

Appendix II to Part 261 – [Reserved]

Appendix III to Part 261 - [Reserved]

Appendix IV (Reserved for Radioactive Waste Test Methods)

Appendix V (Reserved for Infectious Waste Treatment Specifications)

Appendix VI (Reserved for Etiologic Agents)

Appendix VII - Basis for Listing Hazardous Waste

Appendix VII - Basis for Listing Hazardous Waste				
EPA hazardous waste No.	Hazardous constituents for which listed			
F001	Tetrachloroethylene, methylene chloride trichloroethylene, 1,1,1-trichloroethane, carbon tetrachloride, chlorinated fluorocarbons.			
F002	Tetrachloroethylene, methylene chloride, trichloroethylene, 1,1,1-trichloroethane, 1,1,2-trichloroethane, chlorobenzene, 1,1,2-trichloro-1,2,2-trifluoroethane, orthodichlorobenzene, trichlorofluoromethane.			
F003	N.A.			
F004	Cresols and cresylic acid, nitrobenzene.			
F005	Toluene, methyl ethyl ketone, carbon disulfide, isobutanol, pyridine, 2-ethoxyethanol, benzene, 2-nitropropane.			
F006	Cadmium, hexavalent chromium, nickel, cyanide (complexed).			
F007	Cyanide (salts).			
F008	Cyanide (salts).			
F009	Cyanide (salts).			
F010	Cyanide (salts).			
F011	Cyanide (salts).			
F012	Cyanide (complexed).			
F019	Hexavalent chromium, cyanide (complexed).			
F020	Tetra- and pentachlorodibenzo-p-dioxins; tetra and pentachlorodi-benzofurans; tri- and tetrachlorophenols and their chlorophenoxy derivative acids, esters, ethers, amine and other salts.			
F021	Penta- and hexachlorodibenzo-p-dioxins; penta- and hexachlorodibenzofurans; pentachlorophenol and its derivatives.			
F022	Tetra-, penta-, and hexachlorodibenzo-p-dioxins; tetra-, penta-, and hexachlorodibenzofurans.			
F023	Tetra-, and pentachlorodibenzo-p-dioxins; tetra- and pentachlorodibenzofurans; tri- and tetrachlorophenols and their chlorophenoxy derivative acids, esters, ethers, amine and other salts.			
F024	Chloromethane, dichloromethane, trichloromethane, carbon tetrachloride, chloroethylene, 1,1-dichloroethane, 1,2-dichloroethane, trans-1-2-dichloroethylene, 1,1-dichloroethylene, 1,1,1-trichloroethane, 1,1,2-trichloroethane, trichloroethylene, 1,1,1,2-tetra-chloroethane, 1,1,2,2-tetrachloroethane, tetrachloroethylene, pentachloroethane, hexachloroethane, allyl chloride (3-chloropropene), dichloropropane, dichloropropene, 2-chloro-1,3-butadiene, hexachlorocyclopentadiene, hexachlorocyclohexane, benzene, chlorbenzene, dichlorobenzenes, 1,2,4-trichlorobenzene, tetrachlorobenzene, pentachlorobenzene, hexachlorobenzene, toluene, naphthalene.			

EPA hazardous waste No.	Hazardous constituents for which listed
F025	Chloromethane; Dichloromethane; Trichloromethane; Carbon tetrachloride; Chloroethylene; 1,1-Dichloroethane; 1,2-Dichloroethane; trans-1,2-Dichloroethylene; 1,1-Dichloroethylene; 1,1,1-Trichloroethane; 1,1,2-Trichloroethane; Trichloroethylene; 1,1,1,2-Tetrachloroethane; 1,1,2,2-Tetrachloroethane; Tetrachloroethylene; Pentachloroethane; Hexachloroethane; Allyl chloride (3-Chloropropene); Dichloropropane; Dichloropropene; 2-Chloro-1,3-butadiene; Hexachlorocyclopentadiene; Benzene; Chlorobenzene; Dichlorobenzene; 1,2,4-Trichlorobenzene; Tetrachlorobenzene; Naphthalene.
F026	Tetra-, penta-, and hexachlorodibenzo-p-dioxins; tetra-, penta-, and hexachlorodibenzofurans.
F027	Tetra-, penta-, and hexachlorodibenzo-p-dioxins; tetra-, penta-, and hexachlorodibenzofurans; tri-, tetra-, and pentachlorophenols and their chlorophenoxy derivative acids, esters, ethers, amine and other salts.
F028	Tetra-, penta-, and hexachlorodibenzo-p-dioxins; tetra-, penta-, and hexachlorodibenzofurans; tri-, tetra-, and pentachlorophenols and their chlorophenoxy derivative acids, esters, ethers, amine and other salts.
F032	Benz(a)anthracene, benzo(a)pyrene, dibenz(a,h)-anthracene,indeno(1,2,3-cd)pyrene, pentachlorophenol, arsenic, chromium, tetra-, penta-, hexa-, heptachlorodibenzo-p-dioxins, tetra-, penta-, hexa-, heptachlorodibenzofurans.
F034	Benz(a)anthracene, benzo(k)fluoranthene, benzo(a)pyrene, dibenz(a,h)anthracene, indeno(1,2,3-cd)pyrene, naphthalene, arsenic, chromium.
F035	Arsenic, chromium, lead.
F037	Benzene, benzo(a)pyrene, chrysene, lead, chromium.
F038	Benzene, benzo(a)pyrene, chrysene, lead, chromium.
F039	All constituents for which treatment standards are specified for multi-source leachate (wastewaters and nonwastewaters) under 40 CFR 268.43(a), Table CCW.
K001	Pentachlorophenol, phenol, 2-chlorophenol, p-chloro-m-cresol, 2,4-dimethylphenyl, 2,4-dinitrophenol, trichlorophenols, tetrachlorophenols, 2,4-dinitrophenol, creosote, chrysene, naphthalene, fluoranthene, benzo(b)fluoranthene, benzo(a)pyrene, indeno(1,2,3-cd)pyrene, benz(a)anthracene, dibenz(a)anthracene, acenaphthalene.
K002	Hexavalent chromium, lead
K003	Hexavalent chromium, lead.
K004	Hexavalent chromium.
K005	Hexavalent chromium, lead.
K006	Hexavalent chromium.
K007	Cyanide (complexed), hexavalent chromium.
K008	Hexavalent chromium.
K009	Chloroform, formaldehyde, methylene chloride, methyl chloride, paraldehyde, formic acid.
K010	Chloroform, formaldehyde, methylene chloride, methyl chloride, paraldehyde, formic acid, chloroacetaldehyde.

EPA hazardous waste No.	Hazardous constituents for which listed
K011	Acrylonitrile, acetonitrile, hydrocyanic acid.
K013	Hydrocyanic acid, acrylonitrile, acetonitrile.
K014	Acetonitrile, acrylamide.
K015	Benzyl chloride, chlorobenzene, toluene, benzotrichloride.
K016	Hexachlorobenzene, hexachlorobutadiene, carbon tetrachloride, hexachloroethane, perchloroethylene.
K017	Epichlorohydrin, chloroethers [bis(chloromethyl) ether and bis (2-chloroethyl) ethers], trichloropropane, dichloropropanols.
K018	1,2-dichloroethane, trichloroethylene, hexachlorobutadiene, hexachlorobenzene.
K019	Ethylene dichloride, 1,1,1-trichloroethane, 1,1,2-trichloroethane, tetrachloroethanes (1,1,2,2-tetrachloroethane and 1,1,1,2-tetrachloroethane), trichloroethylene, tetrachloroethylene, carbon tetrachloride, chloroform, vinyl chloride, vinylidene chloride.
K020	Ethylene dichloride, 1,1,1-trichloroethane, 1,1,2-trichloroethane, tetrachloroethanes (1,1,2,2-tetrachloroethane and 1,1,1,2-tetrachloroethane), trichloroethylene, tetrachloroethylene, carbon tetrachloride, chloroform, vinyl chloride, vinylidene chloride.
K021	Antimony, carbon tetrachloride, chloroform.
K022	Phenol, tars (polycyclic aromatic hydrocarbons).
K023	Phthalic anhydride, maleic anhydride.
K024	Phthalic anhydride, 1,4-naphthoquinone.
K025	Meta-dinitrobenzene, 2,4-dinitrotoluene.
K026	Paraldehyde, pyridines, 2-picoline.
K027	Toluene diisocyanate, toluene-2, 4-diamine.
K028	1,1,1-trichloroethane, vinyl chloride.
K029	1,2-dichloroethane, 1,1,1-trichloroethane, vinyl chloride, vinylidene chloride, chloroform.
K030	Hexachlorobenzene, hexachlorobutadiene, hexachloroethane, 1,1,1,2-tetrachloroethane, 1,1,2,2-tetrachloroethane, ethylene dichloride.
K031	Arsenic.
K032	Hexachlorocyclopentadiene.
K033	Hexachlorocyclopentadiene.
K034	Hexachlorocyclopentadiene.
K035	Creosote, chrysene, naphthalene, fluoranthene benzo(b) fluoranthene, benzo(a)pyrene, indeno(1,2,3-cd) pyrene, benzo(a)anthracene, dibenzo(a)anthracene, acenaphthalene.
K036	Toluene, phosphorodithioic and phosphorothioic acid esters.
K037	Toluene, phosphorodithioic and phosphorothioic acid esters.
K038	Phorate, formaldehyde, phosphorodithioic and phosphorothioic acid esters.

EPA hazardous waste No.	Hazardous constituents for which listed
K039	Phosphorodithioic and phosphorothioic acid esters.
K040	Phorate, formaldehyde, phosphorodithioic and phosphorothioic acid esters.
K041	Toxaphene.
K042	Hexachlorobenzene, ortho-dichlorobenzene.
K043	2,4-dichlorophenol, 2,6-dichlorophenol, 2,4,6-trichlorophenol.
K044	N.A.
K045	N.A.
K046	Lead.
K047	N.A.
K048	Hexavalent chromium, lead.
K049	Hexavalent chromium, lead.
K050	Hexavalent chromium.
K051	Hexavalent chromium, lead.
K052	Lead.
K060	Cyanide, napthalene, phenolic compounds, arsenic.
K061	Hexavalent chromium, lead, cadmium.
K062	Hexavalent chromium, lead.
K064	Lead, cadmium.
K065	Do.
K066	Do.
K069	Hexavalent chromium, lead, cadmium.
K071	Mercury.
K073	Chloroform, carbon tetrachloride, hexachloroethane, trichloroethane, tetrachloroethylene, dichloroethylene, 1,1,2,2-tetrachloroethane.
K083	Aniline, diphenylamine, nitrobenzene, phenylenediamine.
K084	Arsenic.
K085	Benzene, dichlorobenzenes, trichlorobenzenes, tetrachlorobenzenes, pentachlorobenzene, hexachlorobenzene, benzyl chloride.
K086	Lead, hexavalent chromium.
K087	Phenol, naphthalene.
K088	Cyanide (complexes).
K090	Chromium.
K091	Do.
K093	Phthalic anhydride, maleic anhydride.
K094	Phthalic anhydride.

EPA hazardous waste No.	Hazardous constituents for which listed
K095	1,1,2-trichloroethane, 1,1,1,2-tetrachloroethane, 1,1,2,2-tetrachloroethane.
K096	1,2-dichloroethane, 1,1,1-trichloroethane, 1,1,2-trichloroethane.
K097	Chlordane, heptachlor.
K098	Toxaphene.
K099	2,4-dichlorophenol, 2,4,6-trichlorophenol.
K100	Hexavalent chromium, lead, cadmium.
K101	Arsenic.
K102	Arsenic.
K103	Aniline, nitrobenzene, phenylenediamine.
K104	Aniline, benzene, diphenylamine, nitrobenzene, phenylenediamine.
K105	Benzene, monochlorobenzene, dichlorobenzenes, 2,4,6-trichlorophenol.
K106	Mercury.
K107	1,1-Dimethylhydrazine (UDMH).
K108	1,1-Dimethylhydrazine (UDMH).
K109	1,1-Dimethylhydrazine (UDMH).
K110	1,1-Dimethylhydrazine (UDMH).
K111	2,4-Dinitrotoluene.
K112	2,4-Toluenediamine, o-toluidine, p-toluidine, aniline.
K113	2,4-Toluenediamine, o-toluidine, p-toluidine, aniline.
K114	2,4-Toluenediamine, o-toluidine, p-toluidine.
K115	2,4-Toluenediamine.
K116	Carbon tetrachloride, tetrachloroethylene, chloroform, phosgene.
K117	Ethylene dibromide.
K118	Ethylene dibromide.
K123	Ethylene thiourea.
K124	Ethylene thiourea.
K125	Ethylene thiourea.
K126	Ethylene thiourea.
K131	Dimethyl sulfate, methyl bromide.
K132	Methyl bromide.
K136	Ethylene dibromide.
K141	Benzene, benz(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, dibenz(a,h)anthracene, indeno(1,2,3-cd)pyrene.
K142	Benzene, benz(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, dibenz(a,h)anthracene, indeno(1,2,3-cd)pyrene.

EPA hazardous waste No.	Hazardous constituents for which listed
K143	Benzene, benz(a)anthracene, benzo(b)fluoranthene, benzo(k)fluoranthene.
K144	Benzene, benz(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, dibenz(a,h)anthracene.
K145	Benzene, benz(a)anthracene, benzo(a)pyrene, dibenz(a,h)anthracene, naphthalene.
K147	Benzene, benz(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, dibenz(a,h)anthracene, indeno(1,2,3-cd)pyrene.
K148	Benz(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, dibenz(a,h)anthracene, indeno(1,2,3-cd)pyrene.
K149	Benzotrichloride, benzyl chloride, chloroform, chloromethane, chlorobenzene, 1,4-dichlorobenzene, hexachlorobenzene, pentachlorobenzene, 1,2,4,5-tetrachlorobenzene, toluene.
K150	Carbon tetrachloride, chloroform, chloromethane, 1,4-dichlorobenzene, hexachlorobenzene, pentachlorobenzene, 1,2,4,5-tetrachlorobenzene, 1,1,2,2-tetrachloroethane, tetrachloroethylene, 1,2,4-trichlorobenzene.
K151	Benzene, carbon tetrachloride, chloroform, hexachlorobenzene, pentachlorobenzene, toluene, 1,2,4,5-tetrachlorobenzene, tetrachloroethylene.
K156	Benomyl, carbaryl, carbendazim, carbofuran, carbosulfan, formaldehyde, methylene chloride, triethylamine.
K157	Carbon tetrachloride, formaldehyde, methyl chloride, methylene chloride, pyridine, triethylamine.
K158	Benomyl, carbendazim, carbofuran, carbosulfan, chloroform, methylene chloride.
K159	Benzene, butylate, eptc, molinate, pebulate, vernolate.
K161	Antimony, arsenic, metam-sodium, ziram.
K169	Benzene.
K170	Benzo(a)pyrene, dibenz(a,h)anthracene, benzo(a)anthracene, benzo(b)fluoranthene, benzo(k)fluoranthene, 3-methylcholanthrene, 7,12-dimethylbenz(a)anthracene.
K171	Benzene, arsenic.
K172	Benzene, arsenic.
K174	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (1,2,3,4,6,7,8-HpCDD), 1,2,3,4,6,7,8-Heptachlorodibenzofuran (1,2,3,4,6,7,8-HpCDF), 1,2,3,4,7,8,9-Heptachlorodibenzofuran (1,2,3,6,7,8,9-HpCDF), HxCDDs (All Hexachlorodibenzo-p-dioxins), HxCDFs (All Hexachlorodibenzofurans), PeCDDs (All Pentachlorodibenzo-p-dioxins), OCDD (1,2,3,4,6,7,8,9-Octachlorodibenzofuran), PeCDFs (All Pentachlorodibenzofurans), TCDDs (All Tetrachlorodibenzofurans).
K175	Mercury
K176	Arsenic, Lead.
K177	Antimony.
K178	Thallium.
K181	Aniline, o-anisidine, 4-chloroaniline, p-cresidine, 2,4-dimethylaniline, 1,2-phenylenediamine, 1,3-phenylenediamine.

EPA hazardous waste No.	Hazardous constituents for which listed
K901	0-isopropyl methylphosphonofluoridate (Sarin, GB), bis(2-chloroethyl)sulfide (Mustard, Mustard Agent, Mustard Gas, H, HD), bis(2-chloroethylthio)ethyl ether (Mustard T), Arsenic, Barium, Cadmium, Chromium, Lead, Mercury, Selenium, and Silver, 1,2 – Dichloroethane, 1,1 – Dichloroethylene, Lewisite, Tetrachloroethylene, Trichloroethylene, Vinyl Chloride.
K902	0-isopropyl methylphosphonofluoridate (Sarin, GB), bis(2-chloroethyl)sulfide (Mustard, Mustard Agent, Mustard Gas, H, HD), bis(2-chloroethylthio)ethyl ether (Mustard T), Arsenic, Barium, Cadmium, Chromium, Lead, Mercury, Selenium, and Silver, 1,2 – Dichloroethane, 1,1 – Dichloroethylene, Lewisite, Tetrachloroethylene, Trichloroethylene, Vinyl Chloride.
K903	Arsenic, Barium, Cadmium, Chromium, Lead, Mercury, Selenium, Silver, Chloroform, 1,2 – Dichloroethane, 1,1 – Dichloroethylene, Hexachloroethane, Tetrachloroethylene, Trichloroethylene, Vinyl Chloride.

FOOTNOTE: N.A. -- Waste is hazardous because it fails the test for the characteristic of ignitability, corrosivity, or reactivity.

Appendix VIII - Hazardous Constituents

Common name	Chemical abstracts name	Chemical abstracts No.	Hazardous waste No.
A2213	Ethanimidothioic acid, 2- (dimethylamino) - N-hydroxy-2-oxo-, methyl ester	30558-43-1	U394
Acetonitrile	Same	75-05-8	U003
Acetophenone	Ethanone, 1-phenyl-	98-86-2	U004
2-Acetylaminefluarone	Acetamide, N-9H-fluoren-2-yl-	53-96-3	U005
Acetyl chloride	Same	75-36-5	U006
1-Acetyl-2-thiourea	Acetamide, N-(aminothioxomethyl)-	591-08-2	P002
Acrolein	2-Propenal	107-02-8	P003
Acrylamide	2-Propenamide	79-06-1	U007
Acrylonitrile	2-Propenenitrile	107-13-1	U009
Aflatoxins	Same	1402-68-2	
Aldicarb	Propanal, 2-methyl-2-(methylthio)-, O-[(methylamino)carbonyl]oxime	116-06-3	P070
Aldicarb Sulfone	Propanal, 2-methyl-2- (methylsulfonyl) -, O- [(methylamino) carbonyl] oxime	1646-88-4	P203
Aldrin	1,4,5,8-Dimethanonaphthalene, 1,2,3,4,10,10-10-hexachloro-1,4,4a,5,8,8a- hexahydro-, (1alpha,4alpha,4abeta,5alpha,8alpha, 8abeta)-	309-00-2	P004
Allyl alcohol	2-Propen-1-ol	107-18-6	P005
Allyl chloride	1-Propane, 3-chloro	107-05-1	
Aluminum phosphide	Same	20859-73-8	P006
4-Aminobiphenyl	[1,1'-Biphenyl]-4-amine	92-67-1	
5-(Aminomethyl)-3- isoxazolol	3(2H)-Isoxazolone, 5-(aminomethyl)-	2763-96-4	P007
4-Aminopyridine	4-Pyridinamine	504-24-5	P008
Amitrole	1H-1,2,4-Triazol-3-amine	61-82-5	U011
Ammonium vanadate	Vanadic acid, ammonium salt	7803-55-6	P119
Aniline	Benzenamine	62-53-3	U012
o-Anisidine (2- methoxyaniline)	Benzenamine, 2-Methoxy-	90-04-0	
Antimony	Same	7440-36-0	
Antimony compounds, N.O.S. ¹			
Aramite	Sulfurous acid, 2-chloroethyl 2-[4-(1,1-dimethylethyl)phenoxy]-1-methylethyl ester	140-57-8	
Arsenic	Same	7440-38-2	

Common name	Chemical abstracts name	Chemical abstracts No.	Hazardous waste No.
Arsenic compounds, N.O.S. ¹			
Arsenic acid	Arsenic acid H ₃ AsO ₄	7778-39-4	P010
Arsenic pentoxide	Arsenic oxide As ₂ O ₅	1303-28-2	P011
Arsenic trioxide	Arsenic oxide As ₂ O ₃	1327-53-3	P012
Auramine	Benzenamine, 4,4'-carbonimidoylbis[N,N-dimethyl	492-80-8	U014
Azaserine	L-Serine, diazoacetate (ester)	115-02-6	U015
Barban	Carbamic acid, (3-chlorophenyl) -, 4- chloro-2- butynyl ester	101-27-9	U280
Barium	Same	7440-39-3	
Barium compounds, N.O.S. ¹			
Barium cyanide	Same	542-62-1	P013
Bendiocarb	1,3-Benzodioxol-4-ol, 2,2-dimethyl-, methyl carbamate	22781-23-3	U278
Bendiocarb phenol	1,3-Benzodioxol-4-ol, 2,2-dimethyl-	22961-82-6	U364
Benomyl	Carbamic acid, [1-[(butylamino) carbonyl]- 1H-benzimidazol-2-yl] -, methyl ester	17804-35-2	U271
Benz[c]acridine	Same	225-51-4	U016
Benz[a]anthracene	Same	56-55-3	U018
Benzal chloride	Benzene, (dichloromethyl)-	98-87-3	U017
Benzene	Same	71-43-2	U019
Benzenearsonic acid	Arsonic acid, phenyl-	98-05-5	
Benzidine	[1,1'-Biphenyl]-4,4-diamine	92-87-5	U021
Benzo[b]fluoranthene	Benz[e]acephenanthrylene	205-99-2	
Benzo[j]fluoranthene	Same	205-82-3	
Benzo(k)fluoranthene	Same	207-08-9	
Benzo[a]pyrene	Same	50-32-8	U022
p-Benzoquinone	2,5-Cyclohexadiene-1,4-dione	106-51-4	U197
Benzotrichloride	Benzene, (trichloromethyl)-	98-07-7	U023
Benzyl chloride	Benzene, (chloromethyl)-	100-44-7	P028
Beryllium powder	Same	7440-41-7	P015
Beryllium compounds, N.O.S. ¹			
Bis (pentamethylene)- thiuram tetrasulfide	Piperidine, 1,1'-(tetrathiodicarbonothioyl)- bis-	120-54-7	
Bromoacetone	2-Propanone, 1-bromo-	598-31-2	P017

Common name	Chemical abstracts name	Chemical abstracts No.	Hazardous waste No.
Bromoform	Methane, tribromo-	75-25-2	U225
4-Bromophenyl phenyl ether	Benzene, 1-bromo-4-phenoxy-	101-55-3	U030
Brucine	Strychnidin-10-one, 2,3-dimethoxy-	357-57-3	P018
Butylate	Carbamothioic acid, bis (2-methylpropyl)-,S-ethyl ester	2008-41-5	
Butyl benzyl phthalate	1,2-Benzenedicarboxylic acid, butyl phenylmethyl ester	85-68-7	
Cacodylic acid	Arsinic acid, dimethyl-	75-60-5	U136
Cadmium	Same	7440-43-9	
Cadmium compounds, N.O.S. ¹			
Calcium chromate	Chromic acid H ₂ CrO ₄ , calcium salt	13765-19-0	U032
Calcium cyanide	Calcium cyanide Ca(CN) ₂	592-01-8	P021
Carbaryl	1-Naphthalenol, methylcarbamate	63-25-2	U279
Carbendazim	Carbamic acid, 1H-benzimidazol-2-yl, methyl ester	10605-21-7	U372
Carbofuran	7-Benzofuranol, 2,3-dihydro-2,2-dimethyl-, methylcarbamate	1563-66-2	P127
Carbofuran phenol	7-Benzofuranol, 2,3-dihydro-2,2-dimethyl-	1563-38-8	U367
Carbon disulfide	Same	75-15-0	P022
Carbon oxyfluoride	Carbonic difluoride	353-50-4	U033
Carbon tetrachloride	Methane, tetrachloro-	56-23-5	U211
Carbosulfan	Carbamic acid, [(dibutylamino) thio] methyl-, 2,3-dihydro-2,2-dimethyl-7- benzofuranyl ester	55285-14-8	P189
Chloral	Acetaldehyde, trichloro-	75-87-6	U034
Chlorambucil	Benzenebutanoic acid, 4-[bis(2-chloroethyl)amino]-	305-03-3	U035
Chlordane	4,7-Methano-1H-indene, 1,2,4,5,6,7,8,8- octachloro-2,3,3a,4,7,7a-hexahydro-	57-74-9	U036
Chlordane (alpha and gamma isomers)			U036
Chlorinated benzenes, N.O.S. ¹			
Chlorinated ethane, N.O.S. ¹			
Chlorinated fluorocarbons, N.O.S. ¹			
Chlorinated naphthalene, N.O.S. ¹			

Common name	Chemical abstracts name	Chemical abstracts No.	Hazardous waste No.
Chlorinated phenol, N.O.S. ¹			
Chlornaphazin	Naphthalenamine, N,N'-bis(2-chloroethyl)-	494-03-1	U026
Chloroacetaldehyde	Acetaldehyde, chloro-	107-20-0	P023
Chloroalkyl ethers, N.O.S. ¹			
p-Chloroaniline	Benzenamine, 4-chloro-	106-47-8	P024
Chlorobenzene	Benzene, chloro-	108-90-7	U037
Chlorobenzilate	Benzeneacetic acid, 4-chloro-alpha-(4-chlorophenyl)-alpha-hydroxy-, ethyl ester	510-15-6	U038
p-Chloro-m-cresol	Phenol, 4-chloro-3-methyl-	59-50-7	U039
2-Chloroethyl vinyl ether	Ethene, (2-chloroethoxy)-	110-75-8	U042
Chloroform	Methane, trichloro-	67-66-3	U044
Chloromethyl methyl ether	Methane, chloromethoxy-	107-30-2	U046
beta-Chloronaphthalene	Naphthalene, 2-chloro-	91-58-7	U047
o-Chlorophenol	Phenol, 2-chloro-	95-57-8	U048
1-(o-Chlorophenyl)thiourea	Thiourea, (2-chlorophenyl)-	5344-82-1	P026
Chloroprene	1,3-Butadiene, 2-chloro-	126-99-8	
3-Chloropropionitrile	Propanenitrile, 3-chloro-	542-76-7	P027
Chromium	Same	7440-47-3	
Chromium compounds, N.O.S. ¹			
Chrysene	Same	218-01-9	U050
Citrus red No. 2	2-Naphthalenol, 1-[(2,5-dimethoxyphenyl)azo]-	6358-53-8	
Coal tar creosote	Same	8007-45-2	
Copper cyanide	Copper cyanide CuCN	544-92-3	P029
Copper dimethyldithiocarbamate	Copper, bis(dimethylcarbamodithioato-S,S')	137-29-1	
Creosote	Same		U051
p-Cresidine	2-Methoxy-5-methylbenzenamine	120-71-8	
Cresol (Cresylic acid)	Phenol, methyl-	1319-77-3	U052
Crotonaldehyde	2-Butenal	4170-30-3	U053
m-Cumenyl methylcarbamate	Phenol, 3-(methylethyl)-, methyl carbamate	64-00-6	P202
Cyanides (soluble salts and complexes) N.O.S. ¹			P030
Cyanogen	Ethanedinitrile	460-19-5	P031
Cyanogen bromide	Cyanogen bromide (CN)Br	506-68-3	U246

Common name	Chemical abstracts name	Chemical abstracts No.	Hazardous waste No.
Cyanogen chloride	Cyanogen chloride (CN)Cl	506-77-4	P033
Cycasin	beta-D-Glucopyranoside, (methyl-ONN-azoxy)methyl	14901-08-7	
Cycloate	Carbamothioic acid, cyclohexylethyl-, S-ethyl ester	1134-23-2	
2-Cyclohexyl-4,6- dinitrophenol	Phenol, 2-cyclohexyl-4,6-dinitro-	131-89-5	P034
Cyclophosphamide	2H-1,3,2-Oxazaphosphorin-2-amine, N,N-bis(2-chloroethyl)tetrahydro-, 2-oxide	50-18-0	U058
2,4-D	Acetic acid, (2,4-dichlorophenoxy)-	94-75-7	U240
2,4-D, salts, esters			U240
Daunomycin	5,12-Naphthacenedione, 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)-	20830-81-3	U059
Dazomet	2H-1,3,5-thiadiazine-2-thione, tetrahydro-3,5-dimethyl	533-74-4	
DDD	Benzene, 1,1'-(2,2-dichloroethylidene)bis[4-chloro-	72-54-8	U060
DDE	Benzene, 1,1'-(dichloroethenylidene)bis[4-chloro-	72-55-9	
DDT	Benzene, 1,1'-(2,2,2-trichloroethylidene)bis[4-chloro-	50-29-3	U061
Diallate	Carbamothioic acid, bis(1-methylethyl)-, S-(2,3-dichloro-2-propenyl) ester	2303-16-4	U062
Dibenz[a,h]acridine	Same	226-36-8	
Dibenz[a,j]acridine	Same	224-42-0	
Dibenz[a,h]anthracene	Same	53-70-3	U063
7H-Dibenzo[c,g]carbazole	Same	194-59-2	
Dibenzo[a,e]pyrene	Naphtho[1,2,3,4-def]chrysene	192-65-4	
Dibenzo[a,h]pyrene	Dibenzo[b,def]chrysene	189-64-0	
Dibenzo[a,i]pyrene	Benzo[rst]pentaphene	189-55-9	U064
1,2-Dibromo-3- chloropropane	Propane, 1,2-dibromo-3-chloro-	96-12-8	U066
Dibutyl phthalate	1,2-Benzenedicarboxylic acid, dibutyl ester	84-74-2	U069
o-Dichlorobenzene	Benzene, 1,2-dichloro-	95-50-1	U070
m-Dichlorobenzene	Benzene, 1,3-dichloro-	541-73-1	U071
p-Dichlorobenzene	Benzene, 1,4-dichloro-	106-46-7	U072
Dichlorobenzene, N.O.S. ¹	Benzene, dichloro-	25321-22-6	

Common name	Chemical abstracts name	Chemical abstracts No.	Hazardous waste No.
3,3'-Dichlorobenzidine	[1,1'-Biphenyl]-4,4'-diamine, 3,3'-dichloro-	91-94-1	U073
1,4-Dichloro-2-butene	2-Butene, 1,4-dichloro-	764-41-0	U074
Dichlorodifluoromethane	Methane, dichlorodifluoro-	75-71-8	U075
Dichloroethylene, N.O.S.1	Dichloroethylene	25323-30-2	
1,1-Dichloroethylene	Ethene, 1,1-dichloro-	75-35-4	U078
1,2-Dichloroethylene	Ethene, 1,2-dichloro-, (E)-	156-60-5	U079
Dichloroethyl ether	Ethane, 1,1'oxybis[2-chloro-	111-44-4	U025
Dichloroisopropyl ether	Propane, 2,2'-oxybis[2-chloro-	108-60-1	U027
Dichloromethoxy ethane	Ethane, 1,1'-[methylenebis(oxy)]bis[2-chloro-	111-91-1	U024
Dichloromethyl ether	Methane, oxybis[chloro-	542-88-1	P016
2,4-Dichlorophenol	Phenol, 2,4-dichloro-	120-83-2	U081
2,6-Dichlorophenol	Phenol, 2,6-dichloro-	87-65-0	U082
Dichlorophenylarsine	Arsonous dichloride, phenyl-	696-28-6	P036
Dichloropropane, N.O.S. ¹	Propane, dichloro-	26638-19-7	
Dichloropropanol, N.O.S. ¹	Propanol, dichloro-	26545-73-3	
Dichloropropene, N.O.S. ¹	1-Propene, dichloro-	26952-23-8	
1,3-Dichloropropene	1-Propene, 1,3-dichloro-	542-75-6	U084
Dieldrin	2,7:3,6-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)-	60-57-1	P037
1,2:3,4-Diepoxybutane	2,2'-Bioxirane	1464-53-5	U085
Diethylarsine	Arsine, diethyl-	692-42-2	P038
Diethylene glycol, dicarbamate	Ethanol, 2,2'-oxybis-, dicarbamate	5952-26-1	U395
1,4-Diethyleneoxide	1,4-Dioxane	123-91-1	U108
Diethylhexyl phthalate	1,2-Benzenedicarboxylic acid, bis(2-ethylhexyl) ester	117-81-7	U028
N,N'-Diethylhydrazine	Hydrazine, 1,2-diethyl-	1615-80-1	U086
O,O-Diethyl S-methyl dithiophosphate	Phosphorodithioic acid, O,O-diethyl S-methyl ester	3288-58-2	U087
Diethyl-p-nitrophenyl phosphate	Phosphoric acid, diethyl 4-nitrophenyl ester	311-45-5	P041
Diethyl phthalate	1,2-Benzenedicarboxylic acid, diethyl ester	84-66-2	U088
O,O-Diethyl O-pyrazinyl phosphoro- thioate	Phosphorothioic acid, O,O-diethyl O- pyrazinyl ester	297-97-2	P040

Common name	Chemical abstracts name	Chemical abstracts No.	Hazardous waste No.
Diethylstilbesterol	Phenol, 4,4'-(1,2-diethyl-1,2-ethenediyl)bis-, (E)-	56-53-1	U089
Dihydrosafrole	1,3-Benzodioxole, 5-propyl-	94-58-6	U090
Diisopropylfluorophosphate (DFP)	Phosphorofluoridic acid, bis(1-methylethyl) ester	55-91-4	P043
Dimethoate	Phosphorodithioic acid, O,O-dimethyl S-[2-(methylamino)-2-oxoethyl] ester	60-51-5	P044
3,3'-Dimethoxybenzidine	[1,1'-Biphenyl]-4,4'-diamine, 3,3'-dimethoxy-	119-90-4	U091
p- Dimethylaminoazobenzene	Benzenamine, N,N-dimethyl-4- (phenylazo)-	60-11-7	U093
2,4-Dimethylaniline (2,4-xylidine)	Benzenamine, 2,4-dimethyl	95-68-1	
7,12- Dimethylbenz[a]anthracene	Benz[a]anthracene, 7,12-dimethyl-	57-97-6	U094
3,3'-Dimethylbenzidine	[1,1'-Biphenyl]-4,4'-diamine, 3,3'-dimethyl-	119-93-7	U095
Dimethylcarbamoyl chloride	Carbamic chloride, dimethyl-	79-44-7	U097
1,1-Dimethylhydrazine	Hydrazine, 1,1-dimethyl-	57-14-7	U098
1,2-Dimethylhydrazine	Hydrazine, 1,2-dimethyl-	540-73-8	U099
alpha,alpha- Dimethylphenethylamine	Benzeneethanamine, alpha,alpha- dimethyl-	122-09-8	P046
2,4-Dimethylphenol	Phenol, 2,4-dimethyl-	105-67-9	U101
Dimethyl phthalate	1,2-Benzenedicarboxylic acid, dimethyl ester	131-11-3	U102
Dimethyl sulfate	Sulfuric acid, dimethyl ester	77-78-1	U103
Dimetilan	Carbamic acid, dimethyl-, 1- [(dimethylamino) carbonyl]-5-methyl-1H- pyrazol-3yl ester	644-64-4	P191
Dinitrobenzene, N.O.S. ¹	Benzene, dinitro-	25154-54-5	
4,6-Dinitro-o-cresol	Phenol, 2-methyl-4,6-dinitro-	534-52-1	P047
4,6-Dinitro-o-cresol salts			P047
2,4-Dinitrophenol	Phenol, 2,4-dinitro-	51-28-5	P048
2,4-Dinitrotoluene	Benzene, 1-methyl-2,4-dinitro-	121-14-2	U105
2,6-Dinitrotoluene	Benzene, 2-methyl-1,3-dinitro-	606-20-2	U106
Dinoseb	Phenol, 2-(1-methylpropyl)-4,6-dinitro-	88-85-7	P020
Di-n-octyl phthalate	1,2-Benzenedicarboxylic acid, dioctyl ester	117-84-0	U017
Diphenylamine	Benzenamine, N-phenyl-	122-39-4	
1,2-Diphenylhydrazine	Hydrazine, 1,2-diphenyl-	122-66-7	U109

Common name	Chemical abstracts name	Chemical abstracts No.	Hazardous waste No.
Di-n-propylnitrosamine	1-Propanamine, N-nitroso-N-propyl-	621-64-7	U111
Disulfiram	Thioperoxydicarbonic diamide, tetraethyl	97-77-8	
Disulfoton	Phosphorodithioic acid, O,O-diethyl S-[2-(ethylthio)ethyl] ester	298-04-4	P039
Dithiobiuret	Thioimidodicarbonic diamide [(H ₂ N)C(S)] ₂ NH	541-53-7	P049
Endosulfan	6,9-Methano-2,4,3-benzodioxathiepin, 6,7,8,9,10,10-hexachloro-1,5,5a,6,9,9a- hexahydro-, 3-oxide	115-29-7	P050
Endothall	7-Oxabicyclo[2.2.1]heptane-2,3-dicarboxylic acid	145-73-3	P088
Endrin	2,7:3,6-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)-	72-20-8	P051
Endrin metabolites			P051
Epichlorohydrin	Oxirane, (chloromethyl)-	106-89-8	U041
Epinephrine	1,2-Benzenediol, 4-[1-hydroxy-2- (methylamino)ethyl]-, (R)-	51-43-4	P042
EPTC	Carbamothioic acid, dipropyl-, S-ethyl ester	759-94-4	
Ethyl carbamate (urethane)	Carbamic acid, ethyl ester	51-79-6	U238
Ethyl cyanide	Propanenitrile	107-12-0	P101
Ethylenebisdithiocarbamic acid	Carbamodithioic acid, 1,2-ethanediylbis-	111-54-6	U114
Ethylenebisdithiocarbamic acid, salts and esters			U114
Ethylene dibromide	Ethane, 1,2-dibromo-	106-93-4	U067
Ethylene dichloride	Ethane, 1,2-dichloro-	107-06-2	U077
Ethylene glycol monoethyl ether	Ethanol, 2-ethoxy-	110-80-5	U359
Ethyleneimine	Aziridine	151-56-4	P054
Ethylene oxide	Oxirane	75-21-8	U115
Ethylenethiourea	2-Imidazolidinethione	96-45-7	U116
Ethylidene dichloride	Ethane, 1,1-dichloro-	75-34-3	U076
Ethyl methacrylate	2-Propenoic acid, 2-methyl-, ethyl ester	97-63-2	U118
Ethyl methanesulfonate	Methanesulfonic acid, ethyl ester	62-50-0	U119
Ethyl Ziram	Zinc, bis(diethylcarbamodithioato-S,S')-	14324-55-1	

Common name	Chemical abstracts name	Chemical abstracts No.	Hazardous waste No.
Famphur	Phosphorothioic acid, O-[4- [(dimethylamino)sulfonyl]phenyl] O,O- dimethyl ester	52-85-7	P097
Ferbam	Iron, tris(dimethylcarbamodithioato-S,S')-	14484-64-1	
Fluoranthene	Same	206-44-0	U120
Fluorine	Same	7782-41-4	P056
Fluoroacetamide	Acetamide, 2-fluoro-	640-19-7	P057
Fluoroacetic acid, sodium salt	Acetic acid, fluoro-, sodium salt	62-74-8	P058
Formaldehyde	Same	50-00-0	U122
Formetanate hydrochloride	Methanimidamide, N,N-dimethyl-N'-[3- [[(methylamino) carbonyl]oxy]phenyl]-, monohydrochloride	23422-53-9	P198
Formic acid	Same	64-18-6	U123
Formparanate	Methanimidamide, N,N-dimethyl-N'-[2-methyl-4-[[(methylamino) carbonyl]oxy]phenyl]-	17702-57-7	P197
Glycidylaldehyde	Oxiranecarboxyaldehyde	765-34-4	U126
Halomethanes, N.O.S. ¹			
Heptachlor	4,7-Methano-1H-indene, 1,4,5,6,7,8,8-heptachloro-3a,4,7,7a-tetrahydro-	76-44-8	P059
Heptachlor epoxide	2,5-Methano-2H-indeno[1,2-b]oxirene, 2,3,4,5,6,7,7-heptachloro-1a,1b,5,5a,6,6a- hexa- hydro-, (1aalpha,1bbeta,2alpha,5alpha, 5abeta,6beta,6aalpha)-	1024-57-3	
Heptachlor epoxide (alpha, beta, and gamma isomers)			
Heptachlorodibenzofurans.			
Heptachlorodibenzo-p- dioxins			
Hexachlorobenzene	Benzene, hexachloro-	118-74-1	U127
Hexachlorobutadiene	1,3-Butadiene, 1,1,2,3,4,4-hexachloro-	87-68-3	U128
Hexachlorocyclopentadiene	1,3-Cyclopentadiene, 1,2,3,4,5,5-hexachloro-	77-47-4	U130
Hexachlorodibenzo-p- dioxins			
Hexachlorodibenzofurans			
Hexachloroethane	Ethane, hexachloro-	67-72-1	U131
Hexachlorophene	Phenol, 2,2'-methylenebis[3,4,6-trichloro-	70-30-4	U132
Hexachloropropene	1-Propene, 1,1,2,3,3,3-hexachloro-	1888-71-7	U243

Common name	Chemical abstracts name	Chemical abstracts No.	Hazardous waste No.
Hexaethyl tetraphosphate	Tetraphosphoric acid, hexaethyl ester	757-58-4	P062
Hydrazine	Same	302-01-2	U133
Hydrogen cyanide	Hydrocyanic acid	74-90-8	P063
Hydrogen fluoride	Hydrofluoric acid	7664-39-3	U134
Hydrogen sulfide	Hydrogen sulfide H₂S	7783-06-4	U135
Indeno[1,2,3-cd]pyrene	Same	193-39-5	U137
3-lodo-2-propynyl n- butylcarbamate	Carbamic acid, butyl-, 3-iodo-2-propynyl ester	55406-53-6	
Isobutyl alcohol	1-Propanol, 2-methyl-	78-83-1	U140
Isodrin	1,4,5,8-Dimethanonaphthalene, 1,2,3,4,10,10-hexachloro-1,4,4a,5,8,8a- hexahydro,(1alpha,4alpha,4abeta,5beta,8b eta,8-abeta) -	465-73-6	P060
Isolan	Carbamic acid, dimethyl-, 3-methyl-1-(1-methylethyl)-1H-pyrazol-5-yl ester	119-38-0	P192
Isosafrole	1,3-Benzodioxole, 5-(1-propenyl)-	120-58-1	U141
Kepone	1,3,4-Metheno-2H-cyclobuta[cd]pentalen- 2-one, 1,1a,3,3a,4,5,5,5a,5b,6- decachlorooctahydro-	143-50-0	U142
Lasiocarpine	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]]-	303-34-4	U143
Lead	Same	7439-92-1	
Lead compounds, N.O.S. ¹			
Lead acetate	Acetic acid, lead(2+) salt	301-04-2	U144
Lead phosphate	Phosphoric acid, lead(2+) salt (2:3)	7446-27-7	U145
Lead subacetate	Lead, bis(acetato-O)tetrahydroxytri-	1335-32-6	U146
Lewisite 1	(2-chloroethenyl) arsonous dichloride; Chlorovinylarsine dichloride	541-25-3	K901 & K902
Lewisite 2	2-Chlorovinyldichloroarsine; Bis (2-chlorovinyl) Chloroarsine	40334-69-8	K901 & K902
Lewisite 3	Arsine, tris(2-chloroethenyl); tir-(2-Cholorvinyl) arsine	40334-70-1	K901 & K902
Lindane	Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1alpha,2alpha,3beta,4alpha,5alpha,6beta)	58-89-9	U129
Maleic anhydride	2,5-Furandione	108-31-6	U147
Maleic hydrazide	3,6-Pyridazinedione, 1,2-dihydro-	123-33-1	U148

Common name	Chemical abstracts name	Chemical abstracts No.	Hazardous waste No.
Malononitrile	Propanedinitrile	109-77-3	U149
Manganese dimethyldithiocarbamate	Manganese, bis(dimethylcarbamodithioato-S,S')-	15339-36-3	P196
Melphalan	L-Phenylalanine, 4-[bis(2-chloroethyl)aminol]-	148-82-3	U150
Mercury	Same	7439-97-6	U151
Mercury compounds, N.O.S. ¹			
Mercury fulminate	Fulminic acid, mercury(2+) salt	628-86-4	P065
Metam Sodium	Carbamodithioic acid, methyl-, monosodium salt	137-42-8	
Methacrylonitrile	2-Propenenitrile, 2-methyl-	126-98-7	U152
Methapyrilene	1,2-Ethanediamine, N,N-dimethyl-N'-2-pyridinyl-N'-(2-thienylmethyl)-	91-80-5	U155
Methiocarb	Phenol, (3,5-dimethyl-4-(methylthio)-, methylcarbamate	2032-65-7	P199
Methomyl	Ethanimidothioic acid, N- [[(methylamino)carbonyl]oxy]-, methyl ester	16752-77-5	P066
Methoxychlor	Benzene, 1,1'-(2,2,2- trichloroethylidene)bis[4-methoxy-	72-43-5	U247
Methyl bromide	Methane, bromo-	74-83-9	U029
Methyl chloride	Methane, chloro-	74-87-3	U045
Methyl chlorocarbonate	Carbonochloridic acid, methyl ester	79-22-1	U156
Methyl chloroform	Ethane, 1,1,1-trichloro-	71-55-6	U226
3-Methylcholanthrene	Benz[j]aceanthrylene, 1,2-dihydro-3-methyl-	56-49-5	U157
4,4'-Methylenebis (2- chloroaniline)	Benzenamine, 4,4'-methylenebis[2-chloro-	101-14-4	U158
Methylene bromide	Methane, dibromo-	74-95-3	U068
Methylene chloride	Methane, dichloro-	75-09-2	U080
Methyl ethyl ketone (MEK)	2-Butanone	78-93-3	U159
Methyl ethyl ketone peroxide	2-Butanone, peroxide	1338-23-4	U160
Methyl hydrazine	Hydrazine, methyl-	60-34-4	P068
Methyl iodide	Methane, iodo-	74-88-4	U138
Methyl isocyanate	Methane, isocyanato-	624-83-9	P064
2-Methyllactonitrile	Propanenitrile, 2-hydroxy-2-methyl-	75-86-5	P069
Methyl methacrylate	2-Propenoic acid, 2-methyl-, methyl ester	80-62-6	U162
Methyl methanesulfonate	Methanesulfonic acid, methyl ester	66-27-3	

Common name	Chemical abstracts name	Chemical abstracts No.	Hazardous waste No.
Methyl parathion	Phosphorothioic acid, O,O-dimethyl O-(4-nitrophenyl) ester	298-00-0	P071
Methylthiouracil	4(1H)-Pyrimidinone, 2,3-dihydro-6-methyl- 2-thioxo-	56-04-2	U164
Metolcarb	Carbamic acid, methyl-, 3-methylphenyl ester	1129-41-5	P190
Mexacarbate	Phenol, 4-(dimethylamino)-3,5-dimethyl-, methylcarbamate (ester)	315-18-4	P128
Mitomycin C	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)]	50-07-7	U010
MNNG	Guanidine, N-methyl-N'-nitro-N-nitroso-	70-25-7	U163
Molinate	1H-Azepine-1-carbothioic acid, hexahydro- , S-ethyl ester	2212-67-1	
Mustard gas	Ethane, 1,1'-thiobis[2-chloro-	505-60-2	P909
Mustard T	Bis(2-chloroethylthioethyl) ether	63918-89-8	P910
Naphthalene	Same	91-20-3	U165
1,4-Naphthoquinone	1,4-Naphthalenedione	130-15-4	U166
alpha-Naphthylamine	1-Naphthalenamine	134-32-7	U167
beta-Naphthylamine	2-Naphthalenamine	91-59-8	U168
alpha-Naphthylthiourea	Thiourea, 1-naphthalenyl-	86-88-4	P072
Nickel	Same	7440-02-0	
Nickel compounds, N.O.S. ¹			
Nickel carbonyl	Nickel carbonyl Ni(CO) ₄ , (T-4)-	13463-39-3	P073
Nickel cyanide	Nickel cyanide Ni(CN) ₂	557-19-7	P074
Nicotine	Pyridine, 3-(1-methyl-2-pyrrolidinyl)-, (S)-	54-11-5	P075
Nicotine salts			P075
Nitric oxide	Nitrogen oxide NO	10102-43-9	P076
p-Nitroaniline	Benzenamine, 4-nitro-	100-01-6	P077
Nitrobenzene	Benzene, nitro-	98-95-3	U169
Nitrogen dioxide	Nitrogen oxide NO ₂	10102-44-0	P078
Nitrogen mustard	Ethanamine, 2-chloro-N-(2-chloroethyl)-N-methyl-	51-75-2	
Nitrogen mustard, hydro- chloride salt			
Nitrogen mustard N-oxide	Ethanamine, 2-chloro-N-(2-chloroethyl)-N-methyl-, N-oxide	126-85-2	

Common name	Chemical abstracts name	Chemical abstracts No.	Hazardous waste No.
Nitrogen mustard, N-oxide, hydrochloride salt			
Nitroglycerin	1,2,3-Propanetriol, trinitrate	55-63-0	P081
p-Nitrophenol	Phenol, 4-nitro-	100-02-7	U170
2-Nitropropane	Propane, 2-nitro-	79-46-9	U171
Nitrosamines, N.O.S. ¹		35576-91-1	
N-Nitrosodi-n-butylamine	1-Butanamine, N-butyl-N-nitroso-	924-16-3	U172
N-Nitrosodiethanolamine	Ethanol, 2,2'-(nitrosoimino)bis-	1116-54-7	U173
N-Nitrosodiethylamine	Ethanamine, N-ethyl-N-nitroso-	55-18-5	U174
N-Nitrosodimethylamine	Methanamine, N-methyl-N-nitroso-	62-75-9	P082
N-Nitroso-N-ethylurea	Urea, N-ethyl-N-nitroso-	759-73-9	U176
N-Nitrosomethylethylamine	Ethanamine, N-methyl-N-nitroso-	10595-95-6	
N-Nitroso-N-methylurea	Urea, N-methyl-N-nitroso-	684-93-5	U177
N-Nitroso-N-methylurethane	Carbamic acid, methylnitroso-, ethyl ester	615-53-2	U178
N-Nitrosomethylvinylamine	Vinylamine, N-methyl-N-nitroso-	4549-40-0	P084
N-Nitrosomorpholine	Morpholine, 4-nitroso-	59-89-2	
N-Nitrosonornicotine	Pyridine, 3-(1-nitroso-2-pyrrolidinyl)-, (S)-	16543-55-8	
N-Nitrosopiperidine	Piperidine, 1-nitroso-	100-75-4	U179
N-Nitrosopyrrolidine	Pyrrolidine, 1-nitroso-	930-55-2	U180
N-Nitrososarcosine	Glycine, N-methyl-N-nitroso-	13256-22-9	
5-Nitro-o-toluidine	Benzenamine, 2-methyl-5-nitro-	99-55-8	U181
Octachlorodibenzo-p-dioxin (OCDD)	1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin	3268-87-9	K174
Octachlorodibenzofuran (OCDF)	1,2,3,4,6,7,8,9-Octachlorodibenzofuran	39001-02-0	K174
Octamethylpyrophos- phoramide	Diphosphoramide, octamethyl-	152-16-9	P085
Osmium tetroxide	Osmium oxide OsO ₄ , (T-4)-	20816-12-0	P087
Oxamyl	Ethanimidothioc acid, 2-(dimethylamino)- N-[[(methylamino)carbonyl]oxy]-2- oxo- ,methyl ester	23135-22-0	P194
Paraldehyde	1,3,5-Trioxane, 2,4,6-trimethyl-	123-63-7	U182
Parathion	Phosphorothioic acid, O,O-diethyl O-(4-nitrophenyl) ester	56-38-2	P089
Pebulate	Carbamothioic acid, butylethyl-, S-propyl ester	1114-71-2	
Pentachlorobenzene	Benzene, pentachloro-	608-93-5	U183

Common name	Chemical abstracts name	Chemical abstracts No.	Hazardous waste No.
Pentachlorodibenzo-p- dioxins			
Pentachlorodibenzofurans			
Pentachloroethane	Ethane, pentachloro-	76-01-7	U184
Pentachloronitrobenzene (PCNB)	Benzene, pentachloronitro-	82-68-8	U185
Pentachlorophenol	Phenol, pentachloro-	87-86-5	See F0276
Perfluorooctanoate		45285-51-6	
Perfluorooctanoic acid (PFOA)	pentadecafluorooctanoic acid	335-67-1	
Perfluorooctane sulfonate		45298-90-6	
Perfluorooctane sulfonic acid (PFOS)	heptadecafluorooctane sulfonic acid	1763-23-1	
Phenacetin	Acetamide, N-(4-ethoxyphenyl)-	62-44-2	U187
Phenol	Same	108-95-2	U188
Phenylenediamine	Benzenediamine	25265-76-3	
1,2-Phenylenediamine	1,2-Benzenediamine	95-54-5	
1,3-Phenylenediamine	1,3-Benzenediamine	108-45-2	
Phenylmercury acetate	Mercury, (acetato-O)phenyl-	62-38-4	P092
Phenylthiourea	Thiourea, phenyl-	103-85-5	P093
Phosgene	Carbonic dichloride	75-44-5	P095
Phosphine	Same	7803-51-2	P096
Phorate	Phosphorodithioic acid, O,O-diethyl S- [(ethylthio)methyl] ester	298-02-2	P094
Phthalic acid esters, N.O.S. ¹			
Phthalic anhydride	1,3-Isobenzofurandione	85-44-9	U190
Physostigmine	Pyrrolo[2,3-b]indol-5-01, 1,2,3,3a,8,8a-hexahydro-1,3a,8-trimethyl-,methylcarbamate (ester), (3aS-cis)-	57-47-6	P204
Physostigmine salicylate	Benzoic acid, 2-hydroxy-, compd. with (3aS-cis) -1,2,3,3a,8,8a-hexahydro-1,3a,8-trimethylpyrrolo [2,3-b]indol-5-yl methylcarbamate ester (1:1)	57-64-7	P188
2-Picoline	Pyridine, 2-methyl-	109-06-8	U191
Polychlorinated biphenyls, N.O.S. ¹			
Potassium cyanide	Potassium cyanide K(CN)	151-50-8	P098
Potassium dimethyldithiocarbamate	Carbamodithioic acid, dimethyl, potassium salt	128-03-0	

Common name	Chemical abstracts name	Chemical abstracts No.	Hazardous waste No.	
Potassium n- hydroxymethyl-n-methyl- dithiocarbamate	Carbamodithioic acid, (hydroxymethyl)methyl-, monopotassium salt	51026-28-9		
Potassium n- methyldithiocarbamate	Carbamodithioic acid, methyl- monopotassium salt	137-41-7		
Potassium pentachlorophenate	Pentachlorophenol, potassium salt	7778736	None	
Potassium silver cyanide	Argentate(1-), bis(cyano-C)-, potassium	506-61-6	P099	
Promecarb	Phenol, 3-methyl-5-(1-methylethyl)-, methyl carbamate	2631-37-0	P201	
Pronamide	Benzamide, 3,5-dichloro-N-(1,1-dimethyl-2-propynyl)-	23950-58-5	U192	
1,3-Propane sultone	1,2-Oxathiolane, 2,2-dioxide	1120-71-4	U193	
Propham	Carbamic acid, phenyl-, 1-methylethyl ester	122-42-9	U373	
Propoxur	Phenol, 2-(1-methylethoxy)-, methylcarbamate	114-26-1	U411	
n-Propylamine	1-Propanamine	107-10-8	U194	
Propargyl alcohol	2-Propyn-1-ol	107-19-7	P102	
Propylene dichloride	Propane, 1,2-dichloro-	78-87-5	U083	
1,2-Propylenimine	Aziridine, 2-methyl-	75-55-8	P067	
Propylthiouracil	4(1H)-Pyrimidinone, 2,3-dihydro-6-propyl-2-thioxo-	51-52-5		
Prosulfocarb	Carbamothioic acid, dipropyl-, S- (phenylmethyl)ester	52888-80-9	U387	
Pyridine	Same	110-86-1	U196	
Reserpine	Yohimban-16-carboxylic acid, 11,17-dimethoxy-18-[(3,4,5-trimethoxybenzoyl)oxy]-smethyl ester, (3beta,16beta,17alpha,18beta,20alpha)-	50-55-5	U200	
Resorcinol	1,3-Benzenediol	108-46-3	U201	
Saccharin	1,2-Benzisothiazol-3(2H)-one, 1,1-dioxide	81-07-2	U202	
Saccharin salts			U202	
Safrole	1,3-Benzodioxole, 5-(2-propenyl)-	94-59-7	U203	
Sarin, GB	Isopropyl methylphosphonofluoridate	107-44-8	P911	
Selenium	Same	7782-49-2		
Selenium compounds, N.O.S. ¹				
Selenium dioxide	Selenious acid	7783-00-8	U204	
Selenium sulfide	Selenium sulfide SeS ₂	7488-56-4	U205	

Common name	Chemical abstracts name	Chemical abstracts No.	Hazardous waste No.
Selenium, tetrakis (dimethyldithiocarbamate)	Carbamodithioic acid, dimethyl-, tetraanhydrosulfide with orthothioselenious acid	144-34-3	
Selenourea	Same	630-10-4	P103
Silver	Same	7440-22-4	
Silver compounds, N.O.S. ¹			
Silver cyanide	Silver cyanide Ag(CN)	506-64-9	P104
Silvex (2,4,5-TP)	Propanoic acid, 2-(2,4,5-trichlorophenoxy)-	93-72-1	See F027
Sodium cyanide	Sodium cyanide Na(CN)	143-33-9	P106
Sodium dibutyldithiocarbamate	Carbamodithioic acid, dibutyl, sodium salt	136-30-1	
Sodium diethyldithiocarbamate	Carbamodithioic acid, diethyl-, sodium salt	148-18-5	
Sodium dimethyldithiocarbamate	Carbamodithioic acid, dimethyl-, sodium salt	128-04-1	
Sodium pentachlorophenate	Pentachlorophenol, sodium salt	131522	None
Streptozotocin	D-Glucose, 2-deoxy-2- [[(methylnitrosoamino)carbonyl]amino]-	18883-66-4	U206
Strychnine	Strychnidin-10-one	57-24-9	P108
Strychnine salts			P108
Sulfallate	Carbamodithioic acid, diethyl-, 2-chloro-2- propenyl ester	95-06-7	
TCDD	Dibenzo[b,e][1,4]dioxin, 2,3,7,8-tetrachloro-	1746-01-6	
Tetrabutylthiuram disulfide	Thioperoxydicarbonic diamide, tetrabutyl	1634-02-2	
1,2,4,5-Tetrachlorobenzene	Benzene, 1,2,4,5-tetrachloro-	95-94-3	U207
Tetrachlorodibenzo-p- dioxins			
Tetrachlorodibenzofurans			
Tetrachloroethane, N.O.S. ¹	Ethane, tetrachloro-, N.O.S.	25322-20-7	
1,1,1,2-Tetrachloroethane	Ethane, 1,1,1,2-tetrachloro-	630-20-6	U208
1,1,2,2-Tetrachloroethane	Ethane, 1,1,2,2-tetrachloro-	79-34-5	U209
Tetrachloroethylene	Ethene, tetrachloro-	127-18-4	U210
2,3,4,6-Tetrachlorophenol	Phenol, 2,3,4,6-tetrachloro-	58-90-2	See F027
2,3,4,6-Tetrachlorophenol, potassium salt	same	53535276	None
2,3,4,6-Tetrachlorophenol, sodium salt	same	25567559	None

Common name	Chemical abstracts name	Chemical abstracts No.	Hazardous waste No.
Tetramethylthiuram monosulfide	Bis(dimethylthiocarbamoyl) sulfide	97-74-5	
Tetraethyldithiopyrophos- phate	Thiodiphosphoric acid, tetraethyl ester	3689-24-5	P109
Tetraethyl lead	Plumbane, tetraethyl-	78-00-2	P110
Tetraethyl pyrophosphate	Diphosphoric acid, tetraethyl ester	107-49-3	P111
Tetranitromethane	Methane, tetranitro-	509-14-8	P112
Thallium	Same	7440-28-0	
Thallium compounds, N.O.S. ¹			
Thallic oxide	Thallium oxide Tl ₂ O ₃	1314-32-5	P113
Thallium(I) acetate	Acetic acid, thallium(1+) salt	563-68-8	U214
Thallium(I) carbonate	Carbonic acid, dithallium(1+) salt	6533-73-9	U215
Thallium(I) chloride	Thallium chloride TICI	7791-12-0	U216
Thallium(I) nitrate	Nitric acid, thallium(1+) salt	10102-45-1	U217
Thallium selenite	Selenious acid, dithallium(1+) salt	12039-52-0	P114
Thallium(I) sulfate	Sulfuric acid, dithallium(1+) salt	7446-18-6	P115
Thioacetamide	Ethanethioamide	62-55-5	U218
Thiodicarb	Ethanimidothioic acid, N,N'-(thiobis [(methylimino) carbonyloxy]] bis-, dimethyl ester	59669-26-0	U410
Thiofanox	2-Butanone, 3,3-dimethyl-1-(methylthio)-, 0-[(methylamino)carbonyl] oxime	39196-18-4	P045
Thiomethanol	Methanethiol	74-93-1	U153
Thiophanate-methyl	Carbamic acid, [1,2-phyenylenebis (iminocarbonothioyl)] bis-, dimethyl ester	23564-05-8	U409
Thiophenol	Benzenethiol	108-98-5	P014
Thiosemicarbazide	Hydrazinecarbothioamide	79-19-6	P116
Thiourea	Same	62-56-6	U219
Thiram	Thioperoxydicarbonic diamide [(H ₂ N)C(S)] ₂ S ₂ , tetramethyl-	137-26-8	U244
Tirpate	1,3-Dithiolane-2-carboxaldehyde, 2,4-dimethyl-, O-[(methylamino) carbonyl] oxime	26419-73-8	P185
Toluene	Benzene, methyl-	108-88-3	U220
Toluenediamine	Benzenediamine, ar-methyl-	25376-45-8	U221
Toluene-2,4-diamine	1,3-Benzenediamine, 4-methyl-	95-80-7	
Toluene-2,6-diamine	1,3-Benzenediamine, 2-methyl-	823-40-5	
Toluene-3,4-diamine	1,2-Benzenediamine, 4-methyl-	496-72-0	

Common name	Chemical abstracts name	Chemical abstracts No.	Hazardous waste No.
Toluene diisocyanate	Benzene, 1,3-diisocyanatomethyl-	26471-62-5	U223
o-Toluidine	Benzenamine, 2-methyl-	95-53-4	U328
o-Toluidine hydrochloride	Benzenamine, 2-methyl-, hydrochloride	636-21-5	U222
p-Toluidine	Benzenamine, 4-methyl-	106-49-0	U353
Toxaphene	Same	8001-35-2	P123
Triallate	Carbamothioic acid, bis(1-methylethyl)-, S-(2,3,3-trichloro-2-propenyl) ester	2303-17-5	U389
1,2,4-Trichlorobenzene	Benzene, 1,2,4-trichloro-	120-82-1	
1,1,2-Trichloroethane	Ethane, 1,1,2-trichloro-	79-00-5	U227
Trichloroethylene	Ethene, trichloro-	79-01-6	U228
Trichloromethanethiol	Methanethiol, trichloro-	75-70-7	P118
Trichloromonofluoromethan e	Methane, trichlorofluoro-	75-69-4	U121
2,4,5-Trichlorophenol	Phenol, 2,4,5-trichloro-	95-95-4	See F027
2,4,6-Trichlorophenol	Phenol, 2,4,6-trichloro-	88-06-2	See F027
2,4,5-T	Acetic acid, (2,4,5-trichlorophenoxy)-	93-76-5	See F027
Trichloropropane, N.O.S. ¹		25735-29-9	
1,2,3-Trichloropropane	Propane, 1,2,3-trichloro-	96-18-4	
Triethylamine	Ethanamine, N,N-diethyl-	121-44-8	U404
O,O,O-Triethyl phosphorothioate	Phosphorothioic acid, O,O,O-triethyl ester	126-68-1	
1,3,5-Trinitrobenzene	Benzene, 1,3,5-trinitro-	99-35-4	U234
Tris(1-aziridinyl)phosphine sulfide	Aziridine, 1,1',1"-phosphinothioylidynetris-	52-24-4	
Tris(2,3-dibromopropyl) phosphate	1-Propanol, 2,3-dibromo-, phosphate (3:1)	126-72-7	U235
Trypan blue	2,7-Naphthalenedisulfonic acid, 3,3'-[(3,3'-dimethyl[1,1'-biphenyl]-4,4'diyl)bis(azo)]-bis[5-amino-4-hydroxy-, tetrasodium salt.	72-57-1	U236
Uracil mustard	2,4-(1H,3H)-Pyrimidinedione, 5-[bis(2-chloroethyl)amino]-	66-75-1	U237
Vanadium pentoxide	Vanadium oxide V ₂ O ₅	1314-62-1	P120
Vernolate	Carbamothioic acid, dipropyl-, S-propyl ester	1929-77-7	
Vinyl chloride	Ethene, chloro-	75-01-4	U043
Warfarin	2H-1-Benzopyran-2-one, 4-hydroxy-3-(3-oxo-1-phenylbutyl)-, when present at concentrations less than 0.3%	81-81-2	U248

Common name	Chemical abstracts name	Chemical abstracts No.	Hazardous waste No.
Warfarin	2H-1-Benzopyran-2-one, 4-hydroxy-3-(3-oxo-1-phenylbutyl)-, when present at concentrations greater than 0.3%	81-81-2	P001
Warfarin salts, when present at concentrations less than 0.3%			U248
Warfarin salts, when present at concentrations greater than 0.3%			P001
Zinc cyanide	Zinc cyanide Zn(CN) ₂	557-21-1	P121
Zinc phosphide	Zinc phosphide Zn ₃ P ₂ , when present at concentrations greater than 10%	1314-84-7	P122
Zinc phosphide	Zinc phosphide Zn ₃ P ₂ , when present at concentrations of 10% or less	1314-84-7	U249
Ziram	Zinc, bis(dimethylcarbamodithioato-S,S')-, (T-4)-	137-30-4	P205

 $FOOTNOTE: \ ^1The \ abbreviation \ N.O.S. \ (not \ otherwise \ specified) \ signifies \ those \ members \ of \ the \ general \ class \ not \ specifically \ listed \ by \ name \ in \ this \ appendix.$

Part 261, Appendix IX - Wastes Excluded Under §§ 260.20 and 260.22

DELISTING #: 001

FACILITY: South Adams County Water and Sanitation District ("SACWSD")

ADDRESS: 7400 Quebec Street, Commerce City

WASTE: Spent granular activated carbon ("GAC") contaminated with spent halogenated solvents, EPA hazardous waste # F002, generated after January 15, 1992.

CONDITIONS: This delisting is valid only for the above specified wastestream under the following conditions:

- a) The waste may not be land disposed. This restriction specifically includes, but is not limited to, the following forms of land disposal:
 - i) Storage in lieu of land disposal. The waste may not be stored for greater than one year unless the petitioner can prove that such storage is necessary to facilitate proper treatment of the waste as specified by the conditions of the delisting.
 - ii) Placement of the waste on or in the land as defined in 6 CCR 1007-3, § 268.2.
- b) The waste must be regenerated at an incinerator in compliance with Sections 3004 and 3005 of the federal Solid Waste Disposal Act, 42 U.S.C. Sections 6924 and 6925; and Section 121(d)(3) of the federal Comprehensive Environmental Response Compensation and Liability Act, 42 U.S.C. Section 9621(d)(3).
- c) The unit which regenerates the waste must meet the limits on the parameters below for each batch of SACWSD's waste:
 - i) Regeneration facility must be able to demonstrate that at least 99.99% destruction removal efficiency is achieved for the following compounds:

chloroform

1,1 dichloroethane (1,1 DCA)

1,1 dichloroethene (1,1 DCE)

t-1, 2 dichloroethene (t-1,2 DCE)

1,1 dichloropropane

tetrachloroethene (perchloroethylene or PCE)

1,1,1 trichloroethane (1,1,1 TCA)

trichloroethene(TCE)

- ii) An afterburner combustion temperature that can be shown to achieve the required 99.99% destruction removal efficiency must be maintained. The afterburner combustion temperature shall not be less than 1,700 degrees F.
- iii) The regeneration facility must remain in compliance with all applicable local, state, and federal environmental regulations.
- d) SACWSD is required to obtain documentation which clearly shows that each batch of spent carbon was regenerated under the required conditions. Records must be kept on site at the Klein plant for a minimum of three years.

e) SACSWD must notify the Hazardous Materials and Waste Management Division, Hazardous Waste Control Section on a quarterly basis, of SACWSD's knowledge of significant changes in the type or concentration of hazardous constituents in the carbon or in the influent to SACWSD's GAC system. "Significant changes" are defined as increases in the total concentration of any of the following constituents (in the carbon or the influent) which exceed the values given in the October 1990 petition by 50% or greater:

chloroform
1,1 dichloroethane (1,1 DCA)
1,1 dichloroethene (1,1 DCE)
trans-1,2 dichloroethene (t-1,2 DCE)
1,1 dichloropropane
tetrachloroethene (perchloroethylene or PCE)
1,1,1 trichloroethane (1,1,1 TCA)
trichloroethene (TCE)

"Significant changes" also refers to the appearance of any additional Part 264, Appendix IX hazardous constituents (in either the carbon or the influent) not represented in SACWSD's October 1990 delisting petition.

f) The Department reserves the right to re-evaluate and, if necessary, revoke this delisting or modify its conditions in the event of any "significant changes" (as defined above) in the carbon or in the influent to SACWSD's GAC system.

FACILITY: NTI, A Division of Colorado Springs Circuits, Inc. ("NTI")

ADDRESS: 6035 Galley Road, Colorado Springs, 80915

WASTE: Wastewater Treatment Sludge from Electroplating Operations EPA hazardous waste #

F006, generated after August 20, 1996.

The Solid and Hazardous Waste Commission is hereby removing the conditional delisting granted to NTI, a division of Colorado Springs Circuits, Inc. ("NTI"), for its facility located at 6035 Galley Road in Colorado Springs, Colorado (the "Facility").

NTI was granted a conditional delisting by the Commission on August 20, 1996 for wastewater treatment sludge (F006 hazardous waste) generated from electroplating operations at the Facility.

The delisting was granted under conditions that specified sampling, storage, recordkeeping and disposal requirements for the delisted sludge. The conditional delisting of the F006 waste also prohibited any major changes to the electroplating process or wastewater treatment process at the Facility without prior notification, evaluation, and approval by the Division.

In January of 2000, Dynamic Details, Inc. ("DDI"), formally known as NTI, announced its plans to consolidate its pre-production manufacturing operations located at the Facility into its Dallas, Texas operation, which would result in the complete closure of the Colorado Springs facility.

On June 20, 2000, the Division received formal notice indicating that DDI had officially ceased Operations at the Facility on December 31, 1999, and had completed all closure activities at the Facility as of May 18, 2000. Therefore, NTI's August 1996 conditional delisting is no longer applicable, and the Commission is removing the delisting.

Note: Conditional delisting #003 regarding the Denver Arapahoe Chemical Waste Processing Facility ("DACWPF") was revoked by the Solid and Hazardous Waste Commission at its August 16, 2022 Commission hearing. Please see the August 16, 2022 Statement of Basis and Purpose in Section 8.100 of these regulations for further information concerning this rulemaking.

DELISTING #: 004

FACILITY: AAA Plating, Inc.

ADDRESS: 7777 40th Avenue, Denver, CO 80205

WASTE: Wastewater Treatment Sludge from Electroplating and Chemical Conversion Coating Operations. EPA Hazardous Waste Codes F006 and F019 generated after June 20, 2000.

CONDITIONS: This delisting is valid only for the waste stream specified above and referenced in the delisting petition submitted on January 5, 2000 under the following conditions:

a. Changes to Current Operations

- AAA Plating must notify the Division at least 30-days prior to implementing any major change to the electroplating or chemical conversion coating processes. A major change is any change including alteration of the current wastewater treatment process or incorporating different hazardous chemicals or reagents such that the composition of the wastewater treatment sludge is altered.
- 2. AAA Plating must notify the Hazardous Waste Compliance Unit of the Hazardous Materials and Waste Management Division within 15 days after implementing any change to the wastewater treatment, electroplating, or chemical conversion coating processes that cause a significant change in the type or concentration of any hazardous constituent in the waste. A significant change is defined as an increase in the total waste concentration for any constituent identified below:

Constituent Total Concentration (ppm) Arsenic 0.58 Barium 10.87 Cadmium 8.53 Chromium (Hexavalent) Detection 16.88 Lead Mercury Detection Nickel 3083 Selenium Detection Silver 30.1

Significant change also includes the detection of any additional Part 264, Appendix IX hazardous constituents that are not identified above.

3. The Division reserves the right to re-evaluate and, if necessary, revoke this approval or modify these conditions in the event that a significant change, as defined above, is reported by AAA Plating. In such case, the Division may revoke or impose temporary requirements on the petitioned waste until such time as the petition can be re-evaluated.

b. Storage Requirements

- 1. The delisted waste generated by AAA Plating may not be accumulated on-site for a period in excess of one year.
- 2. The volume of delisted waste accumulated on-site may not exceed 40 cubic yards or 28 tons at any given time.
- 3. The delisted waste must be stored in a container that is capable of being closed. The container must be marked or labeled to identify the contents as "delisted waste" and with an accumulation start date. The container must be kept closed except for when waste is being added to or removed from the container.

c. Recordkeeping Requirements

- 1. AAA Plating shall maintain records of the disposal or recycling of all delisted waste that documents that such activities are in accordance with the delisting petition.
- 2. AAA Plating shall maintain all records required by number one above for a period of at least three years.

d. Disposal Requirements

1. The delisted waste shall be disposed in a landfill meeting the requirements of the Colorado Solid Waste Regulations (6 CCR 1007-2) or recycled at an appropriate metal reclamation facility.

FACILITY: Wright and McGill Company

ADDRESS: 4245 East 46th Avenue, Denver, Colorado 80216

WASTE: Wastewater Treatment Sludge from Chemical Etching Operations. EPA Hazardous

Waste Code F006 generated after November 20, 2001.

CONDITIONS: This delisting is valid only for the waste stream specified above and referenced in the delisting petition submitted on June 25, 2001 under the following conditions:

a. Changes to Current Operation

- 1. The Wright and McGill Company must notify the Department at least 30-days prior to implementing any major change to the chemical etching (i.e., the lazer sharpening) process. A major change is any change including alteration of the current wastewater treatment process or incorporating different hazardous chemicals or reagents such that the composition of the lazer sludge is altered.
- The Wright and McGill Company must notify the Hazardous Waste Compliance Unit of the Hazardous Materials and Waste Management Division within 15 days after implementing any change to the wastewater treatment or chemical etching process that causes a significant change in the type or concentration of any hazardous constituent in the waste. A significant change is defined as an increase in the total waste concentration for any constituent identified below:

Constituent Total Concentration (ppm) Arsenic Detection Barium 7.96 Cadmium 0.23 Chromium (Hexavalent) Detection Lead 16.53 Mercury Detection Nickel 244.25 Selenium Detection Silver Detection

A significant change also includes the detection of any additional Part 264, Appendix VIII hazardous constituents that are not identified above.

3. The Department reserves the right to re-evaluate and, if necessary, revoke this approval or modify the conditions in the event that a significant change, as defined above, is reported by the Wright and McGill Company. In such case, the Department may revoke or impose temporary requirements on the petitioned waste until such time as the petition can be re-evaluated.

b. Storage Requirements

- 1. The delisted waste generated by the Wright and McGill Company may not be accumulated on-site for a period in excess of one year.
- 2. The volume of delisted waste accumulated on-site may not exceed 40 cubic yards or 28 tons at any given time.

3. The delisted waste must be stored in a container that is capable of being closed. The container must be marked or labeled to identify the contents as "delisted waste" with an accumulation start date, and the container must be kept closed except for when waste is being added to or removed from the container.

c. Recordkeeping Requirements

- 1. The Wright and McGill Company shall maintain records documenting that the delisted waste is managed in accordance with the delisting petition.
- 2. The Wright and McGill Company shall maintain all records required by number one above for a period of at least three years.

d. Disposal Requirements

1. The delisted waste shall be disposed in a landfill meeting the requirements of the Colorado Solid Waste Regulations (6 CCR 1007-2).

FACILITY: Photo Stencil, LLC

ADDRESS: 4725 Centennial BoulevardColorado Springs, Colorado 80919

WASTE: Wastewater Treatment Sludge from Electroplating and Chemical Etching Operations.

EPA Hazardous Waste Code F006 generated after June 17, 2003.

CONDITIONS: This delisting is valid only for the waste stream specified above and referenced in the delisting petition submitted on April 16, 2003 under the following conditions:

a. Changes to Current Operation

- 1. Photo Stencil must notify the Department at least 30-days prior to implementing any major change to the electroplating and/or chemical etching processes. A major change is any change including alteration of the current wastewater treatment process or incorporating different hazardous chemicals or reagents such that the composition of the wastewater treatment sludge is altered.
- 2. Photo Stencil must notify the Hazardous Waste Compliance Unit of the Hazardous Materials and Waste Management Division within 15 days after implementing any change to the wastewater treatment, electroplating, or chemical etching process that causes a significant change in the type or concentration of any hazardous constituent in the waste. A significant change is defined as an increase in the total waste concentration for any constituent identified below:

Constituent Total Concentration (ppm) Arsenic 0.54 Barium 4.6 Cadmium Detection Chromium (Hexavalent) Detection Chromium-total 308.5 Copper 4.715 Lead 10.6 Mercury Detection Nickel 13.183 Selenium Detection Silver Detection Complexed Cyanide Detection

A significant change also includes the detection of any additional Part 261, Appendix VIII hazardous constituents that are not identified above.

3. The Department reserves the right to re-evaluate and, if necessary, revoke this approval or modify the conditions in the event that a significant change, as defined above, is reported by Photo Stencil. In such case, the Department may revoke or impose temporary requirements on the petitioned waste until such time as the petition can be reevaluated.

b. Storage Requirements

1. The delisted waste generated by Photo Stencil may not be accumulated on-site for a period in excess of one year.

- 2. The volume of delisted waste accumulated on-site may not exceed 40 cubic yards or 28 tons at any given time.
- 3. The delisted waste must be stored in a container that is capable of being closed. The container must be marked or labeled to identify the contents as "delisted waste" with an accumulation start date, and the container must be kept closed except for when waste is being added to or removed from the container.

c. Recordkeeping Requirements

- 1. Photo Stencil shall maintain records documenting that the delisted waste is managed in accordance with the delisting petition.
- 2. Photo Stencil shall maintain all records required by number one above for a period of at least three years.

d. Disposal Requirements

1. The delisted waste shall be disposed in a landfill meeting the requirements of the Colorado Solid Waste Regulations (6 CCR 1007-2).

DELISTING #: 007 RESERVED

FACILITY: Advanced Surface Technologies, Inc.

ADDRESS: 6155 West 54th Avenue, Arvada, CO 80002

WASTE: Wastewater treatment sludge generated from the on-site wastewater pretreatment of electrolytic and electroless plating operations. EPA Hazardous Waste Codes F006 and F019 generated after the effective date of this delisting.

CONDITIONS: This delisting is valid only for the waste stream specified above and referenced in the delisting petition submitted on April 8, 2008 under the following conditions:

a. Changes to Current Operations

- Advanced Surface Technologies, Inc. must notify the Division at least 30-days prior to implementing any major change to the electrolytic and/or electroless plating processes at the Facility. A major change is any change including alteration of the current wastewater treatment process or incorporating different hazardous chemicals or reagents such that the composition of the wastewater treatment sludge is altered.
- 2. Advanced Surface Technologies, Inc. must notify the Hazardous Waste Compliance Unit of the Hazardous Materials and Waste Management Division within 15 days after implementing any change to the wastewater treatment, or electrolytic and/or electroless plating processes that cause a significant change in the type or concentration of any hazardous constituent in the waste. Advanced Surface Technologies, Inc. shall also notify the Division whenever the sludge exhibits a characteristic of hazardous waste. A significant change is defined as an increase in the total waste concentration for any constituent identified below:

Constituent	Average Concentration (ppm)	2xs the Standard Deviation	Concentration Requiring CDPHE Notification (Two Standard Deviations above the average concentration)
Cyanide (amenable)	0.23	0.51	0.74
Cyanide	0.28	0.35	0.63
Chromium VI	39.50	35.17	74.67
Chromium III	5,350	4,704.25	10,054.25
Mercury	< 0.02	Non-detect	Detection
Arsenic	7.17	13.91	11.08
Cadmium	10.55	15.06	25.61
Copper	17,500	7,468	24,968
Lead	17.20	25.76	42.96
Nickel	20,450	10,558	31,008
Selenium	< 5.00	Non-detect	Detection
Silver	42.33	27.15	69.48
Barium	3.43	3.91	7.34

A significant change also includes the detection of any additional Part 264, Appendix IX hazardous constituents that are not identified above.

3. The Division reserves the right to re-evaluate and, if necessary, remove this approval or modify these conditions in the event that a significant change, as defined above, is reported by Advanced Surface Technologies, Inc. In such case, the Division may remove this delisting or impose temporary requirements on the delisted waste until such time as an appropriate amendment to this delisting can be considered by the Solid and Hazardous Waste Commission.

b. Sampling Requirements

Advanced Surface Technologies, Inc. shall conduct annual verification sampling of the delisted waste to monitor for any significant change in the type or concentration of any hazardous constituents in the waste. Annual verification sampling shall be submitted to the Division within sixty (60) days of the sampling event for review against initial delisting criteria and sampling methodology.

c. Storage Requirements

- 1. The delisted waste generated by Advanced Surface Technologies, Inc. may not be accumulated on-site for a period in excess of one year.
- 2. The volume of delisted waste accumulated on-site may not exceed 40 cubic yards or 28 tons at any given time.
- 3. The delisted waste must be stored in a container that is capable of being closed. The container must be marked or labeled to identify the contents as "delisted waste" and with an accumulation start date. The container must be kept closed except for when waste is being added to or removed from the container.

d. Recordkeeping Requirements

- 1. Advanced Surface Technologies, Inc. shall maintain records of the disposal or recycling of all delisted waste that documents that such activities are in accordance with the delisting petition.
- 2. Advanced Surface Technologies, Inc. shall maintain all records required by paragraph d.1. above for a period of at least three years.

e. Disposal Requirements

The delisted waste shall be disposed in a landfill meeting the requirements of the Colorado Solid Waste Regulations (6 CCR 1007-2) or recycled at an appropriate metal reclamation facility.

FACILITY: Depuy Synthes

ADDRESS: 1051 Synthes Avenue, Monument, Colorado 80132

WASTE: Wastewater treatment sludge and micron filters from the on-site treatment of wastewater generated from electroplating operations (anodizing and chemical etching). EPA hazardous waste code F006 generated after the effective date of this delisting.

CONDITIONS: This delisting is valid only for the waste stream specified above and referenced in the delisting petition submitted on August 4, 2014 and under the following conditions:

a. Changes to Current Operations

- 1. Depuy Synthes must notify the Hazardous Materials and Waste Management Division (the Division) at least 30-days prior to implementing any major change to the electroplating processes at the Facility. A major change is any change including alteration of the current wastewater treatment process or incorporating different chemicals or reagents into the process such that the composition of the wastewater treatment sludge is altered.
- 2. Depuy Synthes must notify the Division within 15-days after implementing any change to the wastewater treatment or electroplating processes that causes a significant change in the type or concentration of any hazardous constituent in the waste or causes the waste to exhibit a hazardous waste characteristic. A significant change is defined as an increase in the total waste concentration for any constituent identified below:

Constituent	Average Concentration (ppm)	2xs the Standard Deviation	Concentration Requiring Notification to the Division (Two Standard Deviations above the Average Concentration)
Arsenic	Non-detect	Non-detect	Detection
Barium	19.0	42.8	61.8
Cadmium	Non-detect	Non-detect	Detection
Chromium (Total)	6,170	13,585.4	19,755.4
Chromium VI	0.035	0.08	0.12
Copper	525.5	1,157.8	1,683.3
Cyanide (amendable)	Non-detect	Non-detect	Detection
Cyanide (free/reactive)	0.005	0.0002	0.0052
Lead	870.4	2,139.0	3,009.4
Mercury	0.11	0.04	0.15
Nickel	2,197	4,958.6	7,155.6
Selenium	Non-detect	Non-detect	Detection
Silver	1.53	3.44	4.97

A significant change also includes the detection of any additional Part 264, Appendix IX hazardous constituents that are not identified in the above table.

3. The Division reserves the right to re-evaluate and, if necessary, remove this approval or modify these conditions in the event that a significant change, as defined above, is reported by Depuy Synthes. In such case, the Division may remove this delisting or impose temporary requirements on the delisted waste until such time as an appropriate amendment to this delisting can be considered by the Solid and Hazardous Waste Commission.

b. Sampling Requirements

Depuy Synthes shall conduct annual verification sampling of the delisted waste in January of each year to monitor for any significant change in the type or concentration of any hazardous constituents in the delisted waste. Annual verification sampling shall be submitted to the Division within sixty (60) days of the sampling event for review against initial criteria and sampling methodology.

c. Storage Requirements

- 1. The delisted waste generated by Depuy Synthes may not be accumulated on-site for a period in excess of one year.
- 2. The volume of delisted waste accumulated on-site may not exceed 20 cubic yards at any given time.
- 3. The delisted waste must be stored in a container that is capable of being closed. The container must be marked or labeled to identify the contents as "delisted waste" and with an accumulation start date. The container must be kept closed except for when waste is being added to or removed from the container.

d. Recordkeeping Requirements

- 1. Depuy Synthes shall maintain records of the disposal or recycling of all delisted waste that documents that such activities are in accordance with the delisting petition.
- 2. Depuy Synthes shall maintain all records required by paragraph d.1 above for a period of at least three years.

e. Disposal Requirements

The delisted waste shall be disposed in a landfill meeting the requirements of the Colorado Solid Waste Regulations (6 CCR 1007-2) or recycled at an appropriate metals reclamation facility.

FACILITY: Acme Manufacturing

ADDRESS: 4650 S. Leydon St., Unit A, Denver, Colorado 80216

WASTE: Wastewater treatment sludge from the on-site treatment of wastewater generated from zinc and chromate plating on cold rolled steel. EPA hazardous waste code F006 generated after the effective date of this delisting.

CONDITIONS: This delisting is valid only for the waste stream specified above and referenced in the delisting petition submitted on October 18, 2018 and under the following conditions:

a. Changes to Current Operations

1. Acme Manufacturing must notify the Hazardous Materials and Waste Management Division (the Division) at least 30-days prior to implementing any major change to the electroplating processes at the Facility. A major change is any change including alteration of the current wastewater treatment process or incorporating different chemicals or reagents into the process such that the composition of the wastewater treatment sludge is altered.

2. Acme Manufacturing must notify the Division within 15-days after implementing any change to the wastewater treatment or electroplating processes that causes a significant change in the type or concentration of any hazardous constituent in the waste or causes the waste to exhibit a hazardous waste characteristic. A significant change is defined as an increase in the total waste concentration for any constituent identified below:

Constituent	Average Concentration (ppm)	2xs the Standard Deviation	Concentration Requiring Notification to the Division (Two Standard Deviations above the Average Concentration)
Arsenic	Non-detect	Non-detect	Detection
Barium	13.2	1.4	14.6
Cadmium	Non-detect	Non-detect	Detection
Chromium (Total)	1,740	193	1,933
Chromium VI	Non-detect	Non-detect	Detection
Copper	40.1	6.8	46.9
Cyanide (amenable)	Non-detect	Non-detect	Detection
Cyanide (free/reactive)	Non-detect	Non-detect	Detection
Lead	6.1	1.0	7.1
Mercury	Non-detect	Non-detect	Detection
Nickel	28.8	3.7	32.5
Selenium	Non-detect	Non-detect	Detection
Silver	Non-detect	Non-detect	Detection
Zinc	78,325	8,569	86,894

A significant change also includes the detection of any additional Part 264, Appendix IX hazardous constituents that are not identified in the above table.

3. The Division reserves the right to re-evaluate and, if necessary, remove this approval or modify these conditions in the event that a significant change, as defined above, is reported by Acme Manufacturing. In such case, the Division may remove this delisting or impose temporary requirements on the delisted waste until such time as an appropriate amendment to this delisting can be considered by the Solid and Hazardous Waste Commission.

b. Sampling Requirements

Acme Manufacturing shall conduct annual verification sampling of the delisted waste in January of each year to monitor for any significant change in the type or concentration of any hazardous constituents in the delisted waste. Annual verification sampling shall be submitted to the Division within sixty (60) days of the sampling event for review against initial criteria and sampling methodology.

c. Storage Requirements

- 1. The delisted waste generated by Acme Manufacturing may not be accumulated on-site for a period in excess of one year.
- 2. The volume of delisted waste accumulated on-site may not exceed 20 cubic yards at any given time.
- 3. The delisted waste must be stored in a container that is capable of being closed. The container must be marked or labeled to identify the contents as "delisted waste" and with an accumulation start date. The container must be kept closed except for when waste is being added to or removed from the container.

d. Recordkeeping Requirements

- 1. Acme Manufacturing shall maintain records of the disposal or recycling of all delisted waste that documents that such activities are in accordance with the delisting petition.
- 2. Acme Manufacturing shall maintain all records required by paragraph d.1 above for a period of at least three years.

e. Disposal Requirements

The delisted waste shall be disposed in a landfill meeting the requirements of the Colorado Solid Waste Regulations (6 CCR 1007-2) or recycled at an appropriate metals reclamation facility.

FACILITY: Golden Aluminum, Inc.

ADDRESS: 1405 East 14th Street, Fort Lupton, CO 80621

WASTE: Wastewater Treatment Sludge from Aluminum Cleaning and Conversion Coating Operations. EPA Hazardous Waste Code F019 generated after the effective date of this delisting.

CONDITIONS: This delisting is valid only for the waste stream specified above and referenced in the delisting petition submitted on May 12, 2022 and November 2022 under the following conditions:

a. Changes to Current Operations

Golden Aluminum, Inc. must notify the Division at least 30-days prior to implementing any
major change to the chemical conversion coating process. A major change is any change
including alteration of the current wastewater treatment process or incorporating different
chemicals or reagents such that the composition of the wastewater treatment sludge is
altered.

2. Golden Aluminum, Inc. must notify the Division within 15-days after implementing any change to the wastewater treatment or chemical conversion coating processes that causes a significant change in the type or concentration of any hazardous constituent in the waste or causes the waste to exhibit a hazardous waste characteristic. A significant change is defined as an increase in the total waste concentration for any constituent identified below:

Constituent	Average Concentration (ppm)	2xs the Standard Deviation	Concentration Requiring Notification to the Division (Two Standard Deviations above the Average Concentration)
Arsenic	2.3	1.7	4.0
Barium	7.1	16.0	23.1
Cadmium	Non-detect	Non-detect	Detection
Chromium (Total)	12,333	1,154	13,487
Chromium VI	158	306	464
Copper	4.2	6.0	10.2
Cyanide (amendable)	Non-detect	Non-detect	Detection
Cyanide (free/reactive)	Non-detect	Non-detect	Detection
Lead	4.9	NA	4.9
Mercury	Non-detect	Non-detect	Detection
Nickel	5.3	4.0	9.3
Selenium	Non-detect	Non-detect	Detection
Silver	Non-detect	Non-detect	Detection
Zinc	10.6	20.0	30.6

A significant change also includes the detection of any additional Part 264, Appendix IX hazardous constituents that are not identified in the above table.

3. In the event that a significant change, as defined above, is reported by Golden Aluminum, Inc., the Division may suspend this delisting or impose temporary requirements on the delisted waste until such time as an appropriate amendment to this delisting can be considered by the Solid and Hazardous Waste Commission.

b. Sampling Requirements

Golden Aluminum, Inc. shall conduct annual verification sampling of the delisted waste in January of each year to monitor for any significant change in the type or concentration of any hazardous constituents in the delisted waste. Annual verification sampling shall be submitted to the Division within sixty (60) days of the sampling event for review against initial criteria and sampling methodology for both total waste concentration and Toxicity Characteristic Leaching Procedure (TCLP).

c. Storage Requirements

- 1. The delisted waste generated by Golden Aluminum, Inc. may not be accumulated on-site for a period in excess of one year.
- 2. The volume of delisted waste accumulated on-site may not exceed 20 cubic yards at any given time.
- 3. The delisted waste must be stored in a container that is capable of being closed. The container must be marked or labeled to identify the contents as "delisted waste" and with an accumulation start date. The container must be kept closed except for when waste is being added to or removed from the container.

d. Recordkeeping Requirements

- Golden Aluminum, Inc. shall maintain records of the disposal or recycling of all delisted waste that documents that such activities are in accordance with the delisting petition.
- 2. Golden Aluminum, Inc. shall maintain all records required by paragraph d.1 above for a period of at least three years.

e. Disposal Requirements

The delisted waste shall be disposed in a landfill meeting the requirements of the Colorado Solid Waste Regulations (6 CCR 1007-2).

Statement of Basis and Purpose Part 261 - Identification and Listing of Hazardous Waste

Purpose

The fundamental purpose of the Part 261 regulations which are promulgated pursuant to C.R.S. 1973, 25-15-302(2) is to identify those wastes, which, because of the public health and environmental hazards that they may pose in transportation, treatment, storage or disposal, are subject to regulation as hazardous wastes.

Additionally, regulations concerning the identification and listing of hazardous waste are a necessary and required component in conducting a hazardous waste management program; the State intends to obtain EPA authorization for a hazardous waste management program pursuant to C.R.S. 1973, 25-15-302. Such full state authorization to conduct the hazardous waste regulatory program can be granted only upon the determination that the State program is equivalent to that of the EPA.

Basis

These regulations are based upon a "cradle-to-grave" system of regulation of hazardous waste. Under this system, hazardous waste is tracked and regulated from the point of generation through storage and transportation to the point of treatment and/or disposal. In this manner, a major portion of the hazardous waste generated in the State is regulated and accounted for, thereby minimizing the potential for public health and environmental problems resulting from improper management, handling, transportation and disposal of these wastes. The great potential for public health and environmental problems, including hazards associated with fire, explosion, direct contact, and air, surface water and groundwater contamination resulting from inadequate management of hazardous wastes has been documented at hundreds of sites throughout the nation and has spurred the development of hazardous waste regulations pursuant to the Resource Conservation and Recovery Act (RCRA) of 1976, Public Law 94-580

These regulations are based, for the most part, on those developed by the EPA under Subtitle C of RCRA. This was done for the reasons discussed below. Because the Federal hazardous waste regulations are comprehensive and technically complex, it was felt that adopting the Federal format and amending specific sections to the needs of the State, as opposed to developing State regulations "from scratch", would save substantial amounts of time and financial resources. Also, it was felt that the process of determination of initial program equivalency would be greatly simplified through adoption of the Federal format. Further, because the Federal regulations are presently subject to frequent amendment, adoption of the Federal format greatly enhances maintaining equivalency of the State regulations to the Federal program.

As stated above, much of the scientific basis for these regulations was developed in the course of EPA research and investigations over a period of several years. Therefore, all information utilized by EPA in developing and proposing these regulations, including that referenced in the Federal Register Volume 45, Number 98, May 19, 1980 p. 33066 et seq. is hereby incorporated in this statement by reference. Pursuant to amendments made to this part 261 effective April 30, 1993, the information contained in the following Federal Registers is incorporated by reference: 55 FR 18726; 56 FR 27300-27330; 55 FR 46354-46397; 56 FR 21955-21960; 55 FR 5340-5342; 55 FR 18496-18506; 54 FR 50968; 53 FR 43881-43884; 53 FR 43878-43881; and 56 FR 19951.

The basis for these regulations was further developed through a series of twelve public meetings at which comments were received from interested parties. Accordingly, certain changes from the Federal regulations have been incorporated in these regulations where it was deemed advisable as a result of public comment and study of the issues, in order to tailor the regulations more to Colorado's needs. Such departures from the approach taken in the Federal regulations are discussed in this document under the pertinent topics.

The Regulations

These regulations define the terms "solid waste" and "hazardous waste," and identify those wastes which are excluded from these regulations. This is necessary in order to characterize the universe of materials which are subject to regulation.

Under the definition of hazardous waste, § 261.3, the phrase "if it has no commercial use or value" has been added as a restriction on the EPA definition. The basis for this action was to achieve consistency with the definition of hazardous waste under C.R.S. 1973, 25-15-101(9)(a). Also, under the Exclusions Section — materials which are not solid wastes, the following additions were listed in order to provide consistency with C.R.S. 1973, 25-15-101(9)(a): -inert materials used for construction fill or top soil placement or changing contour for agriculture or mining purposes; -any materials or waste exempted or not regulated as hazardous waste under the Federal Act.

Subpart B of these regulations sets forth criteria used to identify characteristics and to list particular hazardous wastes. Since there are hazardous wastes which meet these criteria, but which are not listed under Subpart D nor meet the characteristics under Subpart C, the regulations provide that the Department may identify such a waste as hazardous for purposes of these regulations. This provision is necessary in order to protect public health and the environment by ensuring that all hazardous wastes are adequately managed under these regulations. Hazardous wastes under Subpart C may be subject to regulation based on four characteristics defined in the regulations. These characteristics are ignitability, corrosivity, reactivity and (EP) toxicity. This allows a waste to be characterized as hazardous without specifically listing it by name or waste stream. Additionally, Subpart D lists particular hazardous waste, both by specific industrial process waste streams and as discarded commercial products. The discarded commercial products list is further subdivided into toxic and acutely hazardous wastes. Additionally, these regulations establish special, reduced management requirements for hazardous waste produced by small quantity generators. Small quantity generators are defined as those who generate less than 1,000 kilograms of hazardous waste per month, or less than 1 kilogram of acutely toxic waste within one month. Under this small quantity generator provision, those who treat or dispose of their own waste on-site must have a permit under these regulations or written Departmental approval. This requirement was added by the State in order to clarify the responsibilities of small quantity generators, and to ensure that such activities are conducted in a manner which does not threaten public health or the environment. If hazardous waste is disposed off-site, the waste must be delivered to an interim status or permitted facility, or a state-approved facility.

These regulations also include special requirements for hazardous waste which is used, re-used, recycled or reclaimed. These wastes are subject to reduced regulatory requirements in order to encourage re-use activities. This provision may conflict with C.R.S. 1973, 25-15-101(9)(a) which provides that waste which has commercial use or value is not considered hazardous. EPA is also in the process of revising these re-use regulations and this issue may need to be readdressed in the future.

Statement of Basis and Purpose Rule-making Hearing of April 20,1993 Hazardous Waste Management System; Identification and Listing of Hazardous Waste

Basis and Purpose.

These amendments to 6 CCR 1007-3, Part 261 are made pursuant to the authority granted to the Hazardous Waste Commission in section 25-15-302(2), C.R.S.

Toxicity Characteristic Revisions

The Environmental Protection Agency adopted an amendment which exempted from the toxicity characteristic rules certain used chlorofluorocarbon refrigerants which exhibit the toxicity characteristic and which are reclaimed for use. These amendments provide state equivalency with the regulatory requirements of the Environmental Protection Agency.

The amendments also remove the quality assurance requirement found in Method 1311, Toxicity Characteristic Leaching Procedure for correcting measured values for analytical bias. However, this rule retains appropriate quality assurance provisions, including that matrix spike recoveries be calculated and that the method of standard additions be employed as the quantitation method for metallic contaminants when appropriate as specified in the method. These amendments also provide state equivalency with the regulatory requirements of the Environmental Protection Act

This Basis and Purpose incorporates by reference the preamble language for the Environmental Protection Agency regulations published in the Federal Register at 55 FR 5910-5915, February 13, 1991, and at 55 FR 55114, November 24, 1992.

Exclusion of Certain Wastes

The Environmental Protection Agency amended the federal regulations to exclude from the definition of solid waste those coke by-product residues that are recycled by being returns to coke ovens as a feedstock to produce coke; returned to the tar recovery process as a feedstock to produce coal tar; or mixed with coal tar prior to coal tar refining or sale. The Agency also excluded the similarly-situated hazardous waste K087 when recycled in those ways. These amendments mirror the Agency's amendments.

The promulgation of these amendments provide state equivalency with the regulatory requirements of the Environmental Protection Agency.

This Basis and Purpose incorporates by reference the preamble language for this amendment published in the Federal Register at 57 FR 27880-27888 on June 22, 1992.

Editor's Notes

6 CCR 1007-3 has been divided into smaller sections for ease of use. Versions prior to 4/30/2004 and rule history are located in the first section, 6 CCR 1007-3. Prior versions can be accessed from the All Versions list on the rule's current version page. To view versions effective after 4/30/2004, select the desired part of the rule, for example 6 CCR 1007-3 Part 260, or 6 CCR 1007-3 Part 8.

History

[For history of this section, see Editor's Notes in the first section, 6 CCR 1007-3]