0400-12-01-.10 LAND DISPOSAL RESTRICTIONS.

- (1) General
 - (a) Purpose, Scope and Applicability [40 CFR 268.1]
 - 1. This rule identifies hazardous wastes that are restricted from land disposal and defines those limited circumstances under which an otherwise prohibited waste may continue to be land disposed.
 - 2. Except as specifically provided otherwise in this rule or Rule 0400-12-01-.02, the requirements of this rule apply to persons who generate or transport hazardous waste and owners and operators of hazardous waste treatment, storage, and disposal facilities.
 - 3. Restricted wastes may continue to be land disposed as follows:
 - (i) Where persons have been granted an extension to the effective date of a prohibition under paragraph (2) of this rule or pursuant to subparagraph (e) of this paragraph with respect to those wastes covered by the extension;
 - (ii) Where persons have been granted an exemption from a prohibition pursuant to a petition under subparagraph (f) of this paragraph, with respect to those wastes and units covered by the petition;
 - (iii) Wastes that are hazardous only because they exhibit a hazardous characteristic, and which are otherwise prohibited under this rule, or 40 CFR 148, are not prohibited if the wastes:
 - (I) Are disposed into a nonhazardous or hazardous injection well as defined in Tennessee's Underground Injection Control Program, Chapter 0400-45-06 [40 CFR 146.6(a)]; and
 - (II) Do not exhibit any prohibited characteristic of hazardous waste identified in Rule 0400-12-01-.02(3) at the point of injection; and
 - (iv) Wastes that are hazardous only because they exhibit a hazardous characteristic, and which are otherwise prohibited under this rule, are not prohibited if the wastes meet any of the following criteria, unless the wastes are subject to a specified method of treatment other than DEACT in subparagraph (3)(a) of this rule, or are D003 reactive cyanide:
 - (I) The wastes are managed in a treatment system which subsequently discharges to waters of the U.S. pursuant to a permit issued under section 402 of the Clean Water Act; or
 - (II) The wastes are treated for purposes of the pretreatment requirements of section 307 of the Clean Water Act; or
 - (III) The wastes are managed in a zero discharge system engaged in Clean Water Act-equivalent treatment as defined in part (2)(h)1 of this rule; and
 - (IV) The wastes no longer exhibit a prohibited characteristic at the point of land disposal (i.e., placement in a surface impoundment).

- 4. The requirements of this rule shall not affect the availability of a waiver under section 121(d)(4) of the federal Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA).
- 5. The following hazardous wastes are not subject to any provision of this rule:
 - (i) Waste generated by very small quantity generators, as defined in subparagraph (2)(a) of Rule 0400-12-01-.01;
 - (ii) Waste pesticides that a farmer disposes of pursuant to subpart (1)(a)2(vi) of Rule 0400-12-01-.03:
 - (iii) Wastes identified or listed as hazardous after November 8, 1984 for which Tennessee has not promulgated land disposal prohibitions or treatment standards; or
 - (iv) De minimis losses of characteristic wastes to wastewaters are not considered to be prohibited wastes and are defined as losses 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; and relief device discharges; discharges from safety showers and rinsing and cleaning of personal safety equipment; rinsate from empty containers or from containers that are rendered empty by that rinsing; and laboratory wastes not exceeding one per cent of the total flow of wastewater into the facility's headworks on an annual basis, or with a combined annualized average concentration not exceeding one part per million in the headworks of the facility's wastewater treatment or pretreatment facility.
- 6. Universal waste handlers and universal waste transporters (as defined in Rule 0400-12-01-.01(2)(a)) are exempt from subparagraphs (1)(g) and (4)(a) of this rule for the hazardous wastes listed in subparts (i) through (v) of this part. These handlers are subject to regulation under Rule 0400-12-01-.12.
 - (i) Batteries as described in subparagraph (1)(b) of Rule 0400-12-01-.12;
 - (ii) Pesticides as described in subparagraph (1)(c) of Rule 0400-12-01-.12;
 - (iii) Mercury-containing equipment as described in subparagraph (1)(d) of Rule 0400-12-01-.12;
 - (iv) Lamps as described in subparagraph (1)(e) of Rule 0400-12-01-.12; and
 - (v) Aerosol cans as described in subparagraph (1)(f) of Rule 0400-12-01-.12.
- (b) Definitions Applicable in this Rule [40 CFR 268.2]

When used in this rule the following terms have the meanings given below:

1. "Debris" means solid material exceeding a 60 mm particle size that is intended for disposal and that is: a manufactured object; or plant or animal matter; or natural geologic material. However, the following materials are not debris: any material for which a specific treatment standard is provided in paragraph (3) of this rule, namely lead acid batteries, cadmium batteries, and radioactive lead

solids; process residuals such as smelter slag and residues from the treatment of waste, wastewater, sludges, or air emission residues; and intact containers of hazardous waste that are not ruptured and that retain at least 75% of their original volume. A mixture of debris that has not been treated to the standards provided by subparagraph (3)(f) of this rule and other material is subject to regulation as debris if the mixture is comprised primarily of debris, by volume, based on visual inspection.

- 2. "Halogenated organic compounds" or "HOCs" means those compounds having a carbon-halogen bond which are listed under Appendix III of paragraph (5) of this rule.
- 3. "Hazardous constituent or constituents" means those constituents listed in Appendix VIII in paragraph (30) of Rule 0400-12-01-.02.
- 4. "Hazardous debris" means debris that contains a hazardous waste listed in Rule 0400-12-01-.02(4), or that exhibits a characteristic of hazardous waste identified in Rule 0400-12-01-.02(3). Any deliberate mixing of prohibited hazardous waste with debris that changes its treatment classification (i.e., from waste to hazardous debris) is not allowed under the dilution prohibition in subparagraph (c) of this paragraph.
- 5. "Inorganic metal-bearing waste" is one for which the Department established treatment standards for metal hazardous constituents, and which does not otherwise contain significant organic or cyanide content as described in subpart (c)3(i) of this paragraph, and is specifically listed in Appendix XI of this rule.
- 6. "Land disposal" means placement in or on the land, except in a corrective action management unit or staging pile, and includes, but is not limited to, placement in a landfill, surface impoundment, waste pile, injection well, land treatment facility, salt dome formation, salt bed formation, underground mine or cave, or placement in a concrete vault, or bunker intended for disposal purposes.
- 7. "Nonwastewaters" are wastes that do not meet the criteria for wastewaters in part 11 of this subparagraph.
- 8. "Polychlorinated biphenyls" or "PCBs" are halogenated organic compounds defined in accordance with 40 CFR 761.3.
- 9. "Soil" means unconsolidated earth material composing the superficial geologic strata (material overlying bedrock), consisting of clay, silt, sand, or gravel size particles as classified by the U.S. Natural Resources Conservation Service, or a mixture of such materials with liquids, sludges or solids which is inseparable by simple mechanical removal processes and is made up primarily of soil by volume based on visual inspection. Any deliberate mixing of prohibited hazardous waste with soil that changes its treatment classification (i.e., from waste to contaminated soil) is not allowed under the dilution prohibition in subparagraph (c) of this paragraph.
- 10. "Underlying hazardous constituent" means any constituent listed in subparagraph (3)(i) of this rule, Table UTS-Universal Treatment Standards, except fluoride, selenium, sulfides, vanadium and zinc, which can reasonably be expected to be present at the point of generation of the hazardous waste at a concentration above the constituent-specific UTS treatment standards.

- 11. "Wastewaters" are wastes that contain less than 1% by weight total organic carbon (TOC) and less that 1% by weight total suspended solids (TSS).
- 12. All other terms have the meanings given under Rules 0400-12-01-.01(2)(a), .02(1)(b), or .02(1)(c).
- (c) Dilution prohibited as a Substitute for Treatment [40 CFR 268.3]
 - 1. Except as provided in part 2 of this subparagraph, no generator, transporter, handler, or owner or operator of a treatment, storage, or disposal facility shall in any way dilute a restricted waste or the residual from treatment of a restricted waste as a substitute for adequate treatment to achieve compliance with paragraph (3) of this rule, to circumvent the effective date of a prohibition in paragraph (2) of this rule, to otherwise avoid a prohibition in paragraph (2) of this rule, or to circumvent a land disposal prohibition imposed by T.C.A. § 68-212-107(d)9.
 - Dilution of wastes that are hazardous only because they exhibit a characteristic in treatment systems which include land-based units which treat wastes subsequently discharged to a water of the United States pursuant to a permit issued under section 402 of the Clean Water Act (CWA), or which treat wastes in a CWA-equivalent treatment system, or which treat wastes for the purposes of pretreatment requirements under section 307 of the CWA is not impermissible dilution for purposes of this subparagraph unless a method other than DEACT has been specified in subparagraph (3)(a) of this rule as the treatment standard, or unless the waste is a D003 reactive cyanide wastewater or nonwastewater.
 - 3. Combustion of the hazardous waste codes listed in Appendix XI of this rule is prohibited, unless the waste, at the point of generation, or after any bona fide treatment such as cyanide destruction prior to combustion, can be demonstrated to comply with one or more of the following criteria (unless otherwise specifically prohibited from combustion):
 - (i) The waste contains hazardous organic constituents or cyanide at levels exceeding the constituent-specific treatment standard found in subparagraph (3)(i) of this rule;
 - (ii) The waste consists of organic, debris-like materials (e.g., wood, paper, plastic, or cloth) contaminated with an inorganic metal-bearing hazardous waste:
 - (iii) The waste, at point of generation, has reasonable heating value such as greater than or equal to 5000 BTU per pound;
 - (iv) The waste is co-generated with wastes for which combustion is a required method of treatment;
 - (v) The waste is subject to State and/or Federal requirements necessitating reduction of organics (including biological agents); or
 - (vi) The waste contains greater than 1% Total Organic Carbon (TOC).
 - 4. It is a form of impermissible dilution, and therefore prohibited, to add iron filings or other metallic forms of iron to lead-containing hazardous wastes in order to achieve any land disposal restriction treatment standard for lead. Lead-containing wastes include D008 wastes (wastes exhibiting a characteristic due to

the presence of lead), all characteristic wastes containing lead as an underlying hazardous constituent, listed wastes containing lead as a regulated constituent, and hazardous media containing any of the aforementioned lead-containing wastes.

- (d) Treatment Surface Impoundment Exemption [40 CFR 268.4]
 - 1. Wastes which are otherwise prohibited from land disposal under this rule may be treated in a surface impoundment or series of impoundments provided that:
 - (i) Treatment of such wastes occurs in the impoundments;
 - (ii) The following conditions are met:
 - (I) Sampling and testing

For wastes with treatment standards in paragraph (3) of this rule and/or prohibition levels in paragraph (2) of this rule or federal RCRA section 3004(d), the residues from treatment are analyzed, as specified in subparagraph (g) of this paragraph or subparagraph (2)(c) of this rule, to determine if they meet the applicable treatment standards or where no treatment standards have been established for the waste, the applicable prohibition levels. The sampling method, specified in the waste analysis plan under Rule 0400-12-01-.05(2)(d) or .06(2)(d), must be designed such that representative samples of the sludge and the supernatant are tested separately rather than mixed to form homogeneous samples.

(II) Removal

The following treatment residues (including any liquid waste) must be removed at least annually: residues which do not meet the treatment standards promulgated under paragraph (3) of this rule; residues which do not meet the prohibition levels established under paragraph (2) of this rule or imposed by statute (where no treatment standards have been established); residues which are from the treatment of wastes prohibited from land disposal under paragraph (2) of this rule (where no treatment standards have been established and no prohibition levels apply); or residues from managing listed wastes which are not delisted under Rule 0400-12-01-.01(3)(c). If the volume of liquid flowing through the impoundment or series of impoundments annually is greater than the volume of the impoundment or impoundments, this flow-through constitutes removal of the supernatant for the purpose of this requirement.

(III) Subsequent management

Treatment residues may not be placed in any other surface impoundment for subsequent management.

(IV) Recordkeeping

Sampling and testing and recordkeeping provisions of Rules 0400-12-01-.06(2)(d) and .05(2)(d);

- (iii) The impoundment meets the design requirements of Rule 0400-12-01-.05(11)(b)1 or .06(11)(b)3, regardless that the unit may not be new, expanded, or a replacement, and be in compliance with applicable ground water monitoring requirements of Rules 0400-12-01-.05(6) or .06(6) unless:
 - (I) Exempted pursuant to Rule 0400-12-01-.06(11)(b)4 or 5 or to Rule 0400-12-01-.05(11)(b)3 or 4; or
 - (II) Upon application by the owner or operator, the Commissioner, after notice has been given by the owner or operator, as provided for in Rule 0400-12-01-.07(7)(e) and as prepared and required by the Commissioner (the owner or operator has provided proof of the completion of all notice requirements to the Commissioner within ten (10) days following conclusion of the public notice procedures), and an opportunity to comment, has granted a waiver of the requirements on the basis that the surface impoundment:
 - I. Has at least one liner, for which there is no evidence that such liner is leaking;
 - II. Is located more than one-quarter mile from an underground source of drinking water; and
 - III. Is in compliance with generally applicable ground water monitoring requirements for facilities with permits; or
 - (III) Upon application by the owner or operator, the Commissioner, after public notice as set forth in item (II) of this subpart, and an opportunity to comment, has granted a modification to the requirements on the basis of a demonstration that the surface impoundment is located, designed, and operated so as to assure that there will be no migration of any hazardous constituent into ground water or surface water at any future time; and
- (iv) The owner or operator submits to the Commissioner a written certification that the requirements of subpart (iii) of this part have been met. The following certification is required:
 - "I certify under penalty of law that the requirements of Rule 0400-12-01-.10(1)(d)1(iii) have been met for all surface impoundments being used to treat restricted wastes. I believe that the submitted information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment."
- 2. Evaporation of hazardous constituents as the principal means of treatment is not considered to be treatment for purposes of an exemption under this subparagraph.
- (e) (Reserved) [40 CFR 268.5]

(Note: The authority for implementing 40 CFR 268.5 Procedures for Case-by-Case Extensions to an Effective Date remains with the U.S. Environmental Protection Agency.)

(f) (Reserved) [40 CFR 268.6]

(Note: The authority for implementing 40 CFR 268.6 Petitions to Allow Land Disposal of a Prohibited Waste remains with the U.S. Environmental Protection Agency.)

- (g) Testing, Tracking, and Recordkeeping Requirements for Generators, Reverse Distributors, Treaters, and Disposal Facilities [40 CFR 268.7]
 - 1. Requirements for generators and reverse distributors:
 - A generator of hazardous waste must determine if the waste has to be (i) treated before it can be land disposed. This is done by determining if the hazardous waste meets the treatment standards in subparagraphs (3)(a), (3)(f), or (3)(i) of this rule. This determination can be made concurrently with the hazardous waste determination required in Rule 0400-12-01-.03(1)(b), in either of two ways: testing the waste or using knowledge of the waste. If the generator tests the waste, testing would normally determine the total concentration of hazardous constituents, or the concentration of hazardous constituents in an extract of the waste obtained using test method 1311 in "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods," EPA Publication SW-846, listed in Rule 0400-12-01-.01(2)(b), depending on whether the treatment standard for the waste is expressed as a total concentration or concentration of hazardous constituent in the waste's extract. (Alternatively, the generator must send the waste to a RCRA-permitted hazardous waste treatment facility, where the waste treatment facility must comply with the requirements of subparagraph (2)(d) of Rule 0400-12-01-.06 and part 2 of this subparagraph.) In addition, some hazardous wastes must be treated by particular treatment methods before they can be land disposed and some soils are contaminated by such hazardous wastes. These treatment standards are also found in subparagraph (3)(a) of this rule, and are described in detail in subparagraph (3)(c) of this rule, Table 1. These wastes, and soils contaminated with such wastes, do not need to be tested (however, if they are in a waste mixture, other wastes with concentration level treatment standards would have to be tested). If a generator determines they are managing a waste, or soil contaminated with a waste, that displays a hazardous characteristic of ignitability, corrosivity, reactivity, or toxicity, they must comply with the special requirements of subparagraph (i) of this paragraph in addition to any applicable requirements in this subparagraph.
 - If the waste or contaminated soil does not meet the treatment standards or (ii) if the generator chooses not to make the determination of whether this must be treated, with the initial shipment of waste to each treatment or storage facility, the generator must send a one-time written notice to each treatment or storage facility receiving the waste, and place a copy in the file. The notice must include the information in column ".10(1)(a)1(ii)" of the Generator Paperwork Requirements Table in subpart (iv) of this part (Alternatively, if the generator chooses not to make the determination of whether the waste must be treated, the notification must include the Hazardous Waste Codes and Manifest Number of the first shipment and must state "This hazardous waste may or may not be subject to the LDR treatment standards. The treatment facility must make the determination.") No further notification is necessary until such time that the waste or facility change, in which case a new notification must be sent and a copy placed in the generator's file.

(I) For contaminated soil, the following certification statement should be included, signed by an authorized representative:

"I certify under penalty of law that I personally have examined this contaminated soil and it [does/does not] contain listed hazardous waste and [does/does not] exhibit a characteristic of hazardous waste and requires treatment to meet the soil treatment standards as provided by Rule 0400-12-01-.10(3)(j)3."

- (II) (RESERVED)
- (iii) If the waste or contaminated soil meets the treatment standard at the original point of generation:
 - (I) With the initial shipment of waste to each treatment, storage, or disposal facility, the generator must send a one-time written notice to each treatment, storage, or disposal facility receiving the waste, and place a copy in the file. The notice must include the information indicated in column ".10(1)(g)1(iii)" of the Generator Paperwork Requirements Table in .10(1)(g)1(iv) and the following certification statement, signed by an authorized representative:

"I certify under penalty of law that I personally have examined and am familiar with the waste through analysis and testing or through knowledge of the waste to support this certification that the waste complies with the treatment standards specified in Rule 0400-12-01-.10(3). I believe that the information I submitted is true, accurate, and complete. I am aware that there are significant penalties for submitting a false certification, including the possibility of a fine and imprisonment."

- (II) For contaminated soil, with the initial shipment of wastes to each treatment, storage, or disposal facility, the generator must send a one-time written notice to each facility receiving the waste and place a copy in the file. The notice must include the information in column .10(1)(g)1(iii) of the Generator Paperwork Requirements Table in subpart (iv) of this part.
- (III) If the waste changes, the generator must send a new notice and certification to the receiving facility, and place a copy in their files. Generators of hazardous debris excluded from the definition of hazardous waste under part (1)(c)6 of Rule 0400-12-01-.02 are not subject to these requirements.
- (iv) For reporting, tracking and recordkeeping when exceptions allow certain wastes or contaminated soil that do not meet the treatment standards to be land disposed: There are certain exemptions from the requirement that hazardous wastes or contaminated soil meet treatment standards before they can be land disposed. These include, but are not limited to case-by-case extensions under subparagraph (e) of this paragraph, disposal in a no-migration unit under subparagraph (f) of this paragraph, or a national capacity variance or case-by-case capacity variance under paragraph (2) of this rule. If a generator's waste is so exempt, then with the initial shipment of waste, the generator must send a one-time written notice to each land disposal facility receiving the waste. The notice must include the

information indicated in column ".10(1)(g)1(iv)" of the Generator Paperwork Requirements Table below. If the waste changes, the generator must send a new notice to the receiving facility, and place a copy in their files.

Generator Paperwork Requirements Table

Required information	.10(1)(g)1(ii)	quirements Table .10(1)(g)1(iii)	.10(1)(g)1(iv)	.10(1)(g)1(ix)
Hazardous Waste Code(s) and Manifest Number of first shipment. Statement: this waste is not prohibited from land disposal.	√	√	√ √	√
3. The waste is subject to the LDRs. The constituents of concern for F001-F005 and F039, and underlying hazardous constituents in characteristic wastes, unless the waste will be treated and monitored for all constituents. If all constituents will be treated and monitored, there is no need to put them all on the LDR notice.	√	√		
4. The notice must include the applicable wastewater/nonwastewater category (see parts (b)7 and 11 of this paragraph and subdivisions made within a waste code based on waste-specific criteria (such as D003 reactive cyanide).	V	\checkmark		
5. Waste analysis data (when available).	V	V	\checkmark	
6. Date the waste is subject to the prohibition.			\checkmark	
7. For hazardous debris, when treating with the alternative treatment technologies provided by subparagraph (3)(f) of this rule: the contaminants subject to treatment, as described in part (3)(f)2 of this rule; and an indication that these contaminants are being treated to comply with subparagraph (3)(f) of this rule.	√		V	
8. For contaminated soil subject to LDRs as provided in part (3)(j)1 of this rule, the constituents subject to treatment as described in part (3)(j)4 of this rule, and the following statement: This contaminated soil [does/does not] contain listed hazardous waste and [does/does not] exhibit a characteristic				

of hazardous waste and [is subject to/complies with] the soil treatment standards as provided by part (3)(j)3 of this rule or the universal treatment standards.	V	√	
9. A certification is needed (see applicable subpart for exact wording).		\checkmark	V

- (v) If a generator is managing and treating prohibited waste or contaminated soil in tanks, containers, or containment buildings regulated under subparagraphs (1)(f), (g), and (h) of Rule 0400-12-01-.03 to meet applicable LDR treatment standards found at subparagraph (3)(a) of this rule, the generator must develop and follow a written waste analysis plan which describes the procedures they will carry out to comply with the treatment standards. (Generators treating hazardous debris under the alternative treatment standards of Table 1, subparagraph (3)(f) of this rule, however, are not subject to these waste analysis requirements.) The plan must be kept on site in the generator's records, and the following requirements must be met:
 - (I) The waste analysis plan must be based on a detailed chemical and physical analysis of a representative sample of the prohibited waste(s) being treated and contain all information necessary to treat the waste(s) in accordance with the requirements of this rule, including the selected testing frequency.
 - (II) Such plan must be kept in the facility's on-site files and made available to inspectors.
 - (III) Wastes shipped off-site pursuant to this subpart must comply with the notification requirements of subpart (iii) of this part.
- (vi) If a generator determines that the waste or contaminated soil is restricted based solely on his knowledge of the waste, all supporting data used to make this determination must be retained on-site in the generator's files. If a generator determines that the waste is restricted based on testing this waste or an extract developed using the test method 1311 in "Test Methods for Evaluating Solid waste, Physical/Chemical Methods," EPA Publication SW-846, listed in Rule 0400-12-01-.01(2)(b) of this rule, and all waste analysis data must be retained on-site in the generator's files.
- (vii) If a generator determines that he is managing a prohibited waste that is excluded from the definition of hazardous or solid waste or is exempted from regulation under Rule 0400-12-01-.02(1)(b) through (f) subsequent to the point of generation (including deactivated characteristic hazardous wastes managed in wastewater treatment systems subject to the Clean Water Act (CWA) as specified at Rule 0400-12-01-.02(1)(d)1(ii) or that are CWA- equivalent or are managed in an underground injection well regulated by the SDWA), he must place a one-time notice describing such generation, subsequent exclusion from the definition of hazardous or solid waste or exemption from regulation under Chapter 0400-12-01, and the disposition of the waste, in the facility's on-site files.
- (viii) Generators must retain on-site a copy of all notices, certifications, waste analysis data, and other documentation produced pursuant to this

subparagraph for at least three years from the date that the waste that is the subject of such documentation was last sent to on-site or off-site treatment, storage, or disposal. The three year record retention period is automatically extended during the course of any unresolved enforcement action regarding the regulated activity or as requested by the Commissioner. The requirements of this subpart apply to solid wastes even when the hazardous characteristic is removed prior to disposal, or when the waste is excluded from the definition of hazardous or solid waste under Rule 0400-12-01-.02(1)(b) through (f), or exempted from regulation under the Act, subsequent to the point of generation.

- (ix) If a generator is managing a lab pack containing hazardous wastes and wishes to use the alternative treatment standard for lab packs found at part (3)(c)3 of this rule:
 - (I) With the initial shipment of waste to a treatment facility, the generator must submit a notice that provides the information in column ".10(1)(g)1(ix)" in the Generator Paperwork Requirements Table of subpart (iv) of this part, and the following certification. The certification, which must be signed by an authorized representative and must be placed in the generator's files, must say the following:
 - "I certify under penalty of law that I personally have examined and am familiar with the waste and that the lab pack contains only wastes that have not been excluded under Appendix IV to Rule 0400-12-01-.10 and that this lab pack will be sent to a combustion facility in compliance with the alternative treatment standards for lab packs at Rule 0400-12-01-.10(3)(c)3. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine or imprisonment."
 - (II) No further notification is necessary until such time that the wastes in the lab pack change, or the receiving facility changes, in which case a new notice and certification must be sent and a copy placed in the generator's file.
 - (III) If the lab pack contains characteristic hazardous wastes (D001--D043), underlying hazardous constituents (as defined in part (b)10 of this paragraph) need not be determined.
 - (IV) The generator must also comply with the requirements in subparts (vi) and (vii) of this part.
- (x) Small quantity generators with tolling agreements pursuant to Rule 0400-12-01-.03(3)(a)5 must comply with the applicable notification and certification requirements of this part for the initial shipment of the waste subject to the agreement. Such generators must retain on-site a copy of the notification and certification, together with the tolling agreement, for at least three years after termination or expiration of the agreement. The three-year record retention period is automatically extended during the course of any unresolved enforcement action regarding the regulated activity or as requested by the Commissioner.
- 2. Treatment facilities must test their wastes according to the frequency specified in their waste analysis plans as required by Rule 0400-12-01-.06(2)(d) (for permitted TSDFs) or Rule 0400-12-01-.05(2)(d) (for interim status facilities).

Such testing must be performed as provided in subparts (i), (ii) and (iii) of this part.

- (i) For wastes or contaminated soil with treatment standards expressed in the waste extract (TCLP), the owner or operator of the treatment facility must test an extract of the treatment residues, using test method 1311 (the Toxicity Characteristic Leaching Procedure, described in "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods," EPA Publication SW-846 listed in Rule 0400-12-01-.01(2)(b)), to assure that the treatment residues extract meet the applicable treatment standards.
- (ii) For wastes or contaminated soil with treatment standards expressed as concentrations in the waste, the owner or operator of the treatment facility must test the treatment residues (not an extract of such residues) to assure that they meet the applicable treatment standards.
- (iii) A one-time notice must be sent with the initial shipment of waste or contaminated soil to the land disposal facility. A copy of the notice must be placed in the treatment facility's file.
 - (I) No further notification is necessary until such time that the waste or receiving facility change, in which case a new notice must be sent and a copy placed in the treatment facility's file.
 - (II) The one-time notice must include these requirements:

Treatment Facility Paperwork Requirements Table

	Required information	.10(1)(g)2
1.	Hazardous Waste Code(s) and Manifest Number of first shipment.	V
2.	The waste is subject to the LDRs. The constituents of concern for F001-F005, and F039, and underlying hazardous constituents in characteristic wastes, unless the waste will be treated and monitored for all constituents. If all constituents will be treated and monitored, there is no need to put them all on the LDR notice.	\checkmark
3.	The notice must include the applicable wastewater/nonwastewater category (see parts (b)7 and 11 of this paragraph) and subdivisions made within a waste code based on waste-specific criteria (such as D003 reactive cyanide).	\checkmark
4.	Waste analysis data (when available).	\checkmark
5.	For contaminated soil subject to LDRs as provided in part (3)(j)1 of this rule, the constituents subject to treatment as described in part (3)(j)4 of this rule, and the following statement, "this contaminated soil [does/does not] contain listed hazardous waste and [does/does not] exhibit a characteristic of hazardous waste and [is subject to/complies with] the soil treatment standards as provided by part (3)(j)3 of this rule."	\checkmark
6.	A certification is needed (see applicable subpart for exact wording).	$\sqrt{}$

(iv) The treatment facility must submit a one-time certification signed by an authorized representative with the initial shipment of waste or treatment

residue of a restricted waste to the land disposal facility. The certification must state:

"I certify under penalty of law that I have personally examined and am familiar with the treatment technology and operation of the treatment process used to support this certification. Based on my inquiry of those individuals immediately responsible for obtaining this information, I believe that it has been maintained and operated properly so as to comply with the treatment standards specified in Rule 0400-12-01-.10(3)(a) without impermissible dilution of the prohibited waste. I am aware there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment. As specified in Tennessee Code Annotated Section 39-16-702(a)(4), this declaration is made under penalty of perjury."

A certification is also necessary for contaminated soil and it must state:

"I certify under penalty of law that I have personally examined and am familiar with the treatment technology and operation of the treatment process used to support this certification and believe that it has been maintained and operated properly so as to comply with treatment standards specified in Rule 0400-12-01-.10(3)(j) without impermissible dilution of the prohibited waste. I am aware there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment. As specified in Tennessee Code Annotated Section 39-16-702(a)(4), this declaration is made under penalty of perjury."

- (I) A copy of the certification must be placed in the treatment facility's on-site files. If the waste or treatment residue changes, or the receiving facility changes, a new certification must be sent to the receiving facility, and a copy placed in the file.
- (II) Debris excluded from the definition of hazardous waste under Rule 0400-12-01-.02(1)(c)6 (i.e., debris treated by an extraction or destruction technology provided by Table 1, subparagraph (3)(f) of this rule, and debris that the Commissioner has determined does not contain hazardous waste), however, is subject to the notification and certification requirements of part 4 of this subparagraph rather than the certification requirements of this subpart.
- (III) For wastes with organic constituents having treatment standards expressed as concentration levels, if compliance with the treatment standards is based in whole or in part on the analytical detection limit alternative specified in part (3)(a)4 of this rule, the certification, signed by an authorized representative, must state the following:

"I certify under penalty of law that I have personally examined and am familiar with the treatment technology and operation of the treatment process used to support this certification. Based on my inquiry of those individuals immediately responsible for obtaining this information, I believe that the nonwastewater organic constituents have been treated by combustion units as specified in Rule 0400-12-01-.10(3)(c), Table 1. I have been unable to detect the nonwastewater organic constituents, despite having used best goodfaith efforts to analyze for such constituents. I am aware there are significant penalties for submitting a false certification, including the

- possibility of fine and imprisonment. As specified in Tennessee Code Annotated Section 39-16-702(a)(4), this declaration is made under penalty of perjury."
- (IV) For characteristic wastes that are subject to the treatment standards in subparagraph (3)(a) of this rule (other than those expressed as a method of treatment) or subparagraph (3)(j) of this rule and that contain underlying hazardous constituents as defined in part (b)10 of this paragraph; if these wastes are treated on-site to remove the hazardous characteristic; and are then sent off-site for treatment of underlying hazardous constituents, the certification must state the following:
 - "I certify under penalty of law that the waste has been treated in accordance with the requirements of Rule 0400-12-01-.10(3)(a) or Rule 0400-12-01-.10(3)(j) to remove the hazardous characteristic. This decharacterized waste contains underlying hazardous constituents that require further treatment to meet treatment standards. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment. As specified in Tennessee Code Annotated Section 39-16-702(a)(4), this declaration is made under penalty of perjury."
- (V) For characteristic wastes that contain underlying hazardous constituents as defined in part (b)10 of this paragraph that are treated on-site to remove the hazardous characteristic and to treat underlying hazardous constituents to levels in subparagraph (3)(i) of this rule Universal Treatment Standards, the certification must state the following:
 - "I certify under penalty of law that the waste has been treated in accordance with the requirements of Rule 0400-12-01-.10(3)(a) to remove the hazardous characteristic, and that underlying hazardous constituents, as defined in Rule 0400-12-01-.10(1)(b)10, have been treated on-site to meet the Rule 0400-12-01-.10(3)(i) Universal Treatment Standards. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment. As specified in Tennessee Code Annotated Section 39-16-702(a)(4), this declaration is made under penalty of perjury."
- (v) If the waste or treatment residue will be further managed at a different treatment, storage, or disposal facility, the treatment, storage, or disposal facility sending the waste or treatment residue off-site must comply with the notice and certification requirements applicable to generators under this subparagraph.
- (vi) Where the wastes are recyclable materials used in a manner constituting disposal subject to the provisions of Rule 0400-12-01-.09(3)(a)2 regarding treatment standards and prohibition levels, the owner or operator of a treatment facility (i.e., the recycler) must for the initial shipment of waste, prepare a one time certification described in subpart (iv) of this part, and a one time notice which includes the information in subpart (iii) of this part (except the manifest number). The certification and notification must be placed in the facilitiy's on-site files. If the waste or the receiving facility changes, a new certification and notification must be prepared and placed in the on-site files. In addition, the recycling facility must also keep records

of the name and location of each entity receiving the hazardous wastederived product.

- 3. Except where the owner or operator is disposing of any waste that is a recyclable material used in a manner constituting disposal pursuant to Rule 0400-12-01-.09(3)(a)2, the owner or operator of any land disposal facility disposing any waste subject to restrictions under this part must:
 - (i) Have copies of the notice and certifications specified in part 1 or 2 of this subparagraph.
 - (ii) Test the waste, or an extract of the waste or treatment residue developed using the test method 1311 (the Toxicity Characteristic Leaching Procedure), described in "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods," EPA Publication SW-846 listed in Rule 0400-12-01-.01(2)(b), to assure that the wastes or treatment residues are in compliance with the applicable treatment standards set forth in paragraph (3) of this rule. Such testing must be performed according to the frequency specified in the facility's waste analysis plan as required by Rule 0400-12-01-.06(2)(d) or Rule 0400-12-01-.05(2)(d).
- 4. Generators or treaters who first claim that hazardous debris is excluded from the definition of hazardous waste under Rule 0400-12-01-.02(1)(c)6 (i.e., debris treated by an extraction or destruction technology provided by Table 1 of subparagraph (3)(f) of this rule and debris that the Commissioner has determined does not contain hazardous waste) are subject to the following notification and certification requirements:
 - (i) A one-time notification, including the following information, must be submitted to the Commissioner:
 - (I) The name and address of the nonhazardous solid waste landfill (Subtitle D) facility receiving the treated debris;
 - (II) A description of the hazardous debris as initially generated, including the applicable Hazardous Waste Code(s); and
 - (III) For debris excluded under subpart (1)(c)6(i) of Rule 0400-12-01-.02, the technology from Table 1 of subparagraph (3)(f) of this rule used to treat the debris.
 - (ii) The notification must be updated if the debris is shipped to a different facility, and, for debris excluded under Rule 0400-12-01-.02(1)(c)6(i), if a different type of debris is treated or if a different technology is used to treat the debris.
 - (iii) For debris excluded under subpart (1)(c)6(i) of Rule 0400-12-01-.02, the owner or operator of the treatment facility must document and certify compliance with the treatment standards in Table 1 of subparagraph (3)(f) of this rule as follows:
 - Records must be kept of all inspections, evaluations, and analyses of treated debris that are made to determine compliance with the treatment standards;

- (II) Records must be kept of any data or information the treater obtains during treatment of the debris that identifies key operating parameters of the treatment unit; and
- (III) For each shipment of treated debris, a certification of compliance with the treatment standards must be signed by an authorized representative and placed in the facility's files. The certification must state the following:
 - "I certify under penalty of law that the debris has been treated in accordance with the requirements of subparagraph (3)(f) of Rule 0400-12-01-.10. I am aware that there are significant penalties for making a false certification, including the possibility of fine and imprisonment."
- 5. Generators and treaters who first received from the Commissioner a determination that a given contaminated soil subject to LDRs as provided in part (3)(j)1 of this rule no longer contains a listed hazardous waste and generators and treaters who first determine that a contaminated soil subject to LDRs as provided in part (3)(j)1 of this rule no longer exhibits a characteristic of hazardous waste must:
 - (i) Prepare a one-time only documentation of these determinations including all supporting information; and,
 - (ii) Maintain that information in the facility files and other records for a minimum of three years.
- (h) (RESERVED) [40 CFR 268.8]
- (i) Special Rules Regarding Wastes That Exhibit a Characteristic [40 CFR 268.9]
 - 1. The initial generator of a solid waste must determine each Hazardous Waste Number (waste code) applicable to the waste in order to determine the applicable treatment standards under paragraph (3) of this rule. This determination may be made concurrently with the hazardous waste determination required in subparagraph (1)(b) of Rule 0400-12-01-.03. For purposes of this rule, the waste will carry the waste code for any applicable listed waste (Rule 0400-12-01-.02(4)). In addition, where the waste exhibits a characteristic, the waste will carry one or more of the characteristic waste codes (Rule 0400-12-01-02(3)), except when the treatment standard for the listed waste operates in lieu of the treatment standard for the characteristic waste, as specified in part 2 of this subparagraph. If the generator determines that their waste displays a hazardous characteristic (and is not D001 nonwastewaters treated by CMBST, RORGS, OR POLYM of subparagraph (3)(c) of this rule, Table 1), the generator must determine the underlying hazardous constituents (as defined at part (b)10 of this paragraph) in the characteristic waste.
 - 2. Where a prohibited waste is both listed under Rule 0400-12-01-.02(4) and exhibits a characteristic under Rule 0400-12-01-.02(3), the treatment standard for the waste code listed in Rule 0400-12-01-.02(4) will operate in lieu of the standard for the waste code under Rule 0400-12-01-.02(3), provided that the treatment standard for the listed waste includes a treatment standard for the constituent that causes the waste to exhibit the characteristic. Otherwise, the waste must meet the treatment standards for all applicable listed and characteristic waste codes.

- 3. In addition to any applicable standards determined from the initial point of generation, no prohibited waste which exhibits a characteristic under Rule 0400-12-01-.02(3) may be land disposed unless the waste complies with the treatment standards under paragraph (3) of this rule.
- 4. Wastes that exhibit a characteristic are also subject to the requirements of subparagraph (g) of this paragraph, except that once the waste is no longer hazardous, a one-time notification and certification must be placed in the generator's or treater's on-site files. The notification and certification must be updated if the process or operation generating the waste changes and/or if the nonhazardous solid waste landfill (Subtitle D) facility receiving the waste changes.
 - (i) The notification must include the following information:
 - (I) Name and address of the nonhazardous solid waste landfill (Subtitle D) facility receiving the waste shipment; and
 - (II) A description of the waste as initially generated, including the applicable Hazardous Waste Code(s), treatability group(s), and underlying hazardous constituents (as defined in part (b)10 of this paragraph), unless the waste will be treated and monitored for all underlying hazardous constituents. If all underlying hazardous constituents will be treated and monitored, there is no requirement to list any of the underlying hazardous constituents on the notice.
 - (ii) The certification must be signed by an authorized representative and must state the language found in subpart (g)2(iv) of this paragraph.
 - (I) If treatment removes the characteristic but does not meet standards applicable to underlying hazardous constituents, then the certification found in item (g)2(iv)(IV) of this paragraph applies.
 - (II) (RESERVED)
- (j) (RESERVED) [40 CFR 268.10]
- (k) (RESERVED) [40 CFR 268.11]
- (I) (RESERVED) [40 CFR 268.12]
- (m) (Reserved) [40 CFR 268.13]

(Note: The authority for implementing 40 CFR 268.13 Schedule for Wastes Identified or Listed after November 8, 1984 remains with the U.S. Environmental Protection Agency.)

- (n) Surface Impoundment Exemptions [40 CFR 268.14]
 - 1. This subparagraph defines additional circumstances under which an otherwise prohibited waste may continue to be placed in a surface impoundment.
 - 2. Wastes which are newly identified or listed pursuant to Tennessee Code Annotated (T.C.A.) §§ 68-212-106 and 107 and stored in a surface impoundment that is newly subject to Chapter 0400-12-01 as a result of the additional

identification or listing, may continue to be stored in the surface impoundment for 48 months after the promulgation of the additional listing or characteristic, notwithstanding that the waste is otherwise prohibited from land disposal, provided that the surface impoundment is in compliance with the requirements of Rule 0400-12-01-.05(6) within 12 months after promulgation of the new listing or characteristic.

- 3. Wastes which are newly identified or listed pursuant to Tennessee Code Annotated (T.C.A.) §§ 68-212-106 and 107, and treated in a surface impoundment that is newly subject to Chapter 0400-12-01 as a result of the additional identification or listing, may continue to be treated in that surface impoundment, notwithstanding that the waste is otherwise prohibited from land disposal, provided that surface impoundment is in compliance with the requirements of Rule 0400-12-01-.05(6) within 12 months after the promulgation of the new listing or characteristic. In addition, if the surface impoundment continues to treat hazardous waste after 48 months from promulgation of the additional listing or characteristic, it must then be in compliance with subparagraph (d) of this paragraph.
- (2) Prohibitions on Land Disposal [40 CFR 268 Subpart C]
 - (a) Waste Specific Prohibitions -- Wood Preserving Wastes [40 CFR 268.30]
 - 1. Effective September 12. 1998, the following wastes are prohibited from land disposal: the wastes specified in Rule 0400-12-01-.02 as Hazardous Waste codes F032. F034. and F035.
 - 2. Effective May 12, 1999, the following wastes are prohibited from land disposal: soil and debris contaminated with F032, F034, F035; and radioactive wastes mixed with Hazardous waste codes F032, F034, and F035.
 - 3. Between September 12, 1998 and May 12, 1999, soil and debris contaminated with F032, F034, F035; and radioactive waste mixed with F032, F034, and F035 may be disposed in a landfill or surface impoundment only if such unit is in compliance with the requirements specified in subparagraph (1)(e) of this rule.
 - 4. The requirements of parts 1 and 2 of this subparagraph do not apply if:
 - (i) The wastes meet the applicable treatment standards specified in paragraph (3) of this rule;
 - (ii) Persons have been granted an exemption from a prohibition pursuant to a petition under subparagraph (1)(f) of this rule, with respect to those wastes and units covered by the petition;
 - (iii) The wastes meet the applicable alternate treatment standards established pursuant to a petition granted under subparagraph (3)(e) of this rule; or
 - (iv) Persons have been granted an extension to the effective date of a prohibition pursuant to subparagraph (1)(e) of this rule, with respect to those wastes covered by the extension.
 - 5. To determine whether a hazardous waste identified in this subparagraph exceeds the applicable treatment standards specified in subparagraph (3)(a) of this rule, the initial generator must test a sample of the waste extract or the entire waste, depending on whether the treatment standards are expressed as

concentrations in the waste extract or the waste, or the generator may use knowledge of the waste. If the waste contains constituents in excess of the applicable Universal Treatment Standard levels of subparagraph (3)(i) of this rule, the waste is prohibited from land disposal, and all requirements of this rule are applicable, except as otherwise specified.

- (b) Waste Specific Prohibitions -- Dioxin-Containing Wastes [40 CFR 268.31]
 - 1. The dioxin-containing wastes specified in Rule 0400-12-01-.02(4)(b) as Hazardous Waste Codes F020, F02l, F022, F023, F026, F027, and F028, are prohibited from land disposal unless the following condition applies:
 - (i) The F020--F023 and F026--F028 dioxin-containing waste is contaminated soil and debris resulting from a response action taken under section 104 or 106 of the Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA) or a corrective action taken under subtitle C of the Resource Conservation and Recovery Act (RCRA) or the Tennessee Hazardous Waste Management Act, as amended, TCA §§ 68-212-101 et seq.
 - 2. The F020--F023 and F026--F028 dioxin-containing wastes listed in subpart 1(i) of this subparagraph are prohibited from land disposal.
 - 3. (Reserved) [40 CFR 268.31(c)]

(Note: The authority for implementing 40 CFR 268.31(c) pertaining to land disposal between November 8, 1988 and November 8, 1990 of the F020--F023 and F026--F028 dioxin-containing waste which is contaminated soil and debris resulting from a response action under CERCLA or a corrective action under RCRA remains with the U.S. Environmental Protection Agency.)

- 4. The requirements of parts 1 and 2 of this subparagraph do not apply if:
 - (i) The wastes meet the standards of paragraph (3) of this rule; or
 - (ii) Persons have been granted an exemption from a prohibition pursuant to a petition under subparagraph (1)(f) of this rule, with respect to those wastes and units covered by the petition; or
 - (iii) Persons have been granted an extension to the effective date of a prohibition pursuant to subparagraph (1)(e) of this rule, with respect to those wastes covered by the extension.
- (c) Waste specific prohibitions Soils exhibiting the toxicity characteristic for metals and containing PCBs [40 CFR 268.32]
 - 1. The following wastes are prohibited from land disposal: any volumes of soil exhibiting the toxicity characteristic solely because of the presence of metals (D004--D011) and containing PCBs.
 - 2. The requirements of part 1 of this subparagraph do not apply if:
 - (i) (I) The wastes contain halogenated organic compounds in total concentration less than 1, 000 mg/kg; and

- (II) The wastes meet the treatment standards specified in paragraph (3) of this rule for Hazardous Waste Codes D004--D011, as applicable; or
- (ii) (I) The wastes contain halogenated organic compounds in total concentration less than 1,000 mg/kg; and
 - (II) The wastes meet the alternative treatment standards specified in subparagraph (3)(j) of this rule for contaminated soil; or
- (iii) Persons have been granted an exemption from a prohibition pursuant to a petition under subparagraph (1)(f) of this rule with respect to those wastes and units covered by the petition; or
- (iv) The wastes meet applicable alternative treatment standards established pursuant to a petition granted under subparagraph (3)(e) of this rule.
- (d) Waste Specific Prohibitions-Chlorinated Aliphatic Wastes [40 CFR 268.33]
 - Effective July 22, 2002 the wastes specified in Rule 0400-12-01-.02 as Hazardous Waste Codes K174 and K175, soil and debris contaminated with these wastes, radioactive wastes mixed with these wastes, and soil and debris contaminated with radioactive wastes mixed with these wastes are prohibited from land disposal.
 - 2. The requirement of part 1 of this subparagraph do not apply if:
 - (i) The wastes meet the applicable treatment standards specified in paragraph (3) of this rule;
 - (ii) Persons have been granted an exemption from a prohibition pursuant to a petition under subparagraph (1)(f) of this rule, with respect to those wastes and units covered by the petition;
 - (iii) The wastes meet the applicable treatment standards established pursuant to a petition granted under subparagraph (3)(e) of this rule;
 - (iv) Hazardous debris has met the treatment standards in subparagraph (3)(a) of this rule or the alternative treatment standards in subparagraph (3)(f) of this rule; or
 - (v) Persons have been granted an extension to the effective date of a prohibition pursuant to subparagraph (1)(e) of this rule, with respect to these wastes covered by the extension.
 - 3. To determine whether a hazardous waste identified in this subparagraph exceeds the applicable treatment standards specified in subparagraph (3)(a) of this rule, the initial generator must test a sample of the waste extract or the entire waste, depending on whether the treatment standards are expressed as concentrations in the waste extract or the waste, or the generator may use knowledge of the waste. If the waste contains regulated constituents in excess of the applicable levels of paragraph (3) of this rule, the waste is prohibited from land disposal, and all requirements of this rule are applicable, except as otherwise specified.

- 4. Disposal of K175 wastes that have complied with all applicable treatment standards of subparagraph (3)(a) of this rule must also be macroencapsulated in accordance with Table 1 of subparagraph (3)(f) of this rule unless the waste is placed in:
 - (i) A hazardous waste (Subtitle C) monofill containing only K175 wastes that meet all applicable treatment standards of subparagraph (3)(a) of this rule; or
 - (ii) A dedicated hazardous waste (Subtitle C) landfill cell in which all other wastes being co-disposed are at $pH \le 6.0$.
- (e) Waste Specific Prohibitions Toxicity Characteristic Metal Wastes [40 CFR 268.34]
 - 1. Effective July 19, 1999, the following wastes are prohibited from land disposal: the wastes specified in Rule 0400-12-01-.02 as Hazardous Waste Codes D004-D011 that are newly identified (i.e., wastes, soil, or debris identified as hazardous by the Toxicity Characteristic Leaching Procedure but not the Extraction Procedure), and waste, soil, or debris from mineral processing operations that is identified as hazardous by the specifications at Rule 0400-12-01-.02.
 - 2. Effective July 19, 1999, the following waste is prohibited from land disposal: Slag from secondary lead smelting which exhibits the Toxicity Characteristic due to the presence of one or more metals.
 - 3. Effective May 26, 2000, the following wastes are prohibited from land disposal: newly identified characteristic wastes from elemental phosphorus processing; radioactive wastes mixed with hazardous wastes D004--D011 that are newly identified (i.e., wastes, soil, or debris identified as hazardous by the Toxicity Characteristic Leaching Procedure but not the Extraction Procedure); or mixed with newly identified characteristic mineral processing wastes, soil, or debris.
 - 4. Between July 19, 1999 and May 26, 2000, newly identified characteristic wastes from elemental phosphorus processing, radioactive waste mixed with D004--D011 wastes that are newly identified (i.e. wastes, soil, or debris identified as hazardous by the Toxicity Characteristic Leaching Procedure but not the Extraction Procedure), or mixed with newly identified characteristic mineral processing wastes, soil, or debris may be disposed in a landfill or surface impoundment only if such unit is in compliance with the requirements specified in subparagraph (1)(e) of this rule.
 - 5. The requirements of parts 1 and 3 of this subparagraph do not apply if:
 - (i) The wastes meet the applicable treatment standards specified in paragraph (3) of this rule;
 - (ii) Persons have been granted an exemption from a prohibition pursuant to a petition under subparagraph (1)(f) of this rule, with respect to those wastes and units covered by the petition;
 - (iii) The wastes meet the applicable alternate treatment standards established pursuant to a petition granted under subparagraph (3)(e) of this rule; or
 - (iv) Persons have been granted an extension to the effective date of a prohibition pursuant to subparagraph (1)(e) of this rule, with respect to these wastes covered by the extension.

- 6. To determine whether a hazardous waste identified in this subparagraph exceeds the applicable treatment standards specified in subparagraph (3)(a) of this rule, the initial generator must test a sample of the waste extract or the entire waste, depending on whether the treatment standards are expressed as concentrations in the waste extract or the waste, or the generator may use knowledge of the waste. If the waste contains constituents (including underlying hazardous constituents in characteristic wastes) in excess of the applicable Universal Treatment Standard levels of subparagraph (3)(i) of this rule, the waste is prohibited from land disposal, and all requirements of this rule are applicable, except as otherwise specified.
- (f) Waste Specific Prohibitions-Petroleum Refining Wastes [40 CFR 268.35]
 - 1. Effective November 28, 2000, the wastes specified in Rule 0400-12-01-.02 as Hazardous Wastes Codes K169, K170, K171, and K172, soils and debris contaminated with these wastes, radioactive wastes mixed with these hazardous wastes, and soils and debris contaminated with these radioactive mixed wastes, are prohibited from land disposal.
 - 2. The requirements of part 1 of this subparagraph do not apply if:
 - (i) The wastes meet the applicable treatment standards specified in paragraph (3) of this rule;
 - (ii) Persons have been granted an exemption from a prohibition pursuant to a petition under subparagraph (1)(f) of this rule, with respect to those wastes and units covered by the petition;
 - (iii) The wastes meet the applicable treatment standards established pursuant to a petition granted under subparagraph (3)(e) of this rule;
 - (iv) Hazardous debris that have met treatment standards in subparagraph (3)(a) of this rule or in the alternative treatment standards in subparagraph (3)(f) of this rule; or
 - (v) Persons have been granted an extension to the effective date of a prohibition pursuant to subparagraph (1)(e) of this rule, with respect to these wastes covered by the extension.
 - 3. To determine whether a hazardous waste identified in this subparagraph exceeds the applicable treatment standards specified in subparagraph (3)(a) of this rule, the initial generator must test a sample of the waste extract or the entire waste, depending on whether the treatment standards are expressed as concentrations in the waste extract or the waste, or the generator may use knowledge of the waste. If the waste contains constituents in excess of the applicable Universal Treatment Standard levels of subparagraph (3)(i) of this rule, the waste is prohibited from land disposal, and all requirements of this rule are applicable, except as otherwise specified.
- (g) Waste Specific Prohibitions—Inorganic Chemical Wastes [40 CFR 268.36]
 - 1. Effective January 12, 2004, the wastes specified in Rule 0400-12-01-.02 as Hazardous Wastes codes K176, K 177, and K178, and soil and debris contaminated with these wastes, radioactive wastes mixed with these wastes,

and soil and debris contaminated with radioactive wastes mixed with these wastes are prohibited from land disposal.

- 2. The requirements of part 1 of this subparagraph do not apply if:
 - (i) The wastes meet the applicable treatment standards specified in paragraph (3) of this rule;
 - (ii) Persons have been granted an exemption from a prohibition pursuant to a petition under subparagraph (1)(f) of this rule, with respect to those wastes and units covered by the petition;
 - (iii) The wastes meet the applicable treatment standards established pursuant to a petition granted under subparagraph (3)(e) of this rule;
 - (iv) Hazardous debris has met the treatment standards in subparagraph (3)(a) of this rule or the alternative treatment standards in subparagraph (3)(f) of this rule:
 - (v) Persons have been granted an extension to the effective date of a prohibition pursuant to subparagraph (1)(e) of this rule, with respect to these wastes covered by the extension.
- 3. To determine whether a hazardous waste identified in this subparagraph exceeds the applicable treatment standards specified in subparagraph (3)(a) of this rule, the initial generator must test a sample of the waste extract or the entire waste, depending on whether the treatment standards are expressed as concentrations in the waste extract or the waste, or the generator may use knowledge of the waste. If the waste contains regulated constituents in excess of the applicable levels of paragraph (3) of this rule, the waste is prohibited from land disposal, and all requirements of this part are applicable, except as otherwise specified.
- (h) Waste Specific Prohibitions-Ignitable and Corrosive Characteristic Wastes Whose Treatment Standards Were Vacated [40 CFR 268.37]
 - 1. The wastes specified in Rule 0400-12-01-.02(3)(b) as D001 (and is not in the High TOC Ignitable Liquids Subcategory), and specified in Rule 0400-12-01-.02(3)(c) as D002, that are managed in systems other than those whose discharge is regulated under the Clean Water act (CWA), or that inject in Class I deep wells regulated under the Safe Drinking Water act (SDWA), or that are zero dischargers that engage in CWA-equivalent treatment before ultimate land disposal, are prohibited from land disposal. CWA-equivalent treatment means biological treatment for organics, alkaline chlorination or ferrous sulfate precipitation for cyanide, precipitation/sedimentation for metals, reduction of hexavalent chromium, or other treatment technology that can be demonstrated to perform equally or greater than these technologies.
 - 2. The wastes specified in Rule 0400-12-01-.02(3)(b) as D001 (and is not in the High TOC Ignitable Liquids Subcategory), and specified in Rule 0400-12-01-.02(3)(c) as D002, that are managed in systems defined in 40 CFR 144.6(e) and 146.6(e) as Class V injection wells, that do not engage in CWA-equivalent treatment before injection, are prohibited from land disposal.

- (i) Waste Specific Prohibitions-Newly Identified Organic Toxicity Characteristic Wastes and Newly Listed Coke By-product and Chlorotoluene Production Wastes [40 CFR 268.38]
 - 1. The wastes specified in Rule 0400-12-01-.02(4)(c) as Hazardous Waste Codes K141, K142, K143, K144, K145, K147, K148, K149, K150, and K151 are prohibited from land disposal. In addition, debris contaminated with Hazardous Waste Codes F037, F038, K107--K112, K117, K118, K123--K126, K131, K132, K136, U328, U353, U359, and soil and debris contaminated with D012--D043, K141--K145, and K147--K151 are prohibited from land disposal. The following wastes that are specified in Rule 0400-12-01-.02(3)(e) Table 1 as Hazardous Waste Codes: D012, D013, D014, D015, D016, D017, D018, D019, D020, D021, D022, D023, D024, D025, D026, D027, D028, D029, D030, D031, D032, D033, D034, D035, D036, D037, D038, D039, D040, D041, D042, D043 that are not radioactive, or that are managed in systems other than those whose discharge is regulated under the Clean Water Act (CWA), or that are zero dischargers that do not engage in CWA-equivalent treatment before ultimate land disposal, or that are injected in Class I deep wells regulated under the Safe Drinking Water Act (SDWA), are prohibited from land disposal. CWA-equivalent treatment means biological treatment for organics, alkaline chlorination or ferrous sulfate precipitation for cyanide, precipitation/ sedimentation for metals, reduction of hexavalent chromium, or other treatment technology that can be demonstrated to perform equally or better than these technologies.
 - 2. On September 19, 1996, radioactive wastes that are mixed with D018--D043 that are managed in systems other than those whose discharge is regulated under the Clean Water Act (CWA), or that inject in Class I deep wells regulated under the Safe Drinking Water Act (SDWA), or that are zero dischargers that engage in CWA-equivalent treatment before ultimate land disposal, are prohibited from land disposal. CWA-equivalent treatment means biological treatment for organics, alkaline chlorination or ferrous sulfate precipitation for cyanide, precipitation/ sedimentation for metals, reduction of hexavalent chromium, or other treatment technology that can be demonstrated to perform equally or greater than these technologies. Radioactive wastes mixed with K141--K145, and K147--K151 are also prohibited from land disposal. In addition, soil and debris contaminated with these radioactive mixed wastes are prohibited from land disposal.
 - 3. Between December 19, 1994 and September 19, 1996, the wastes included in part 2 of this subparagraph may be disposed in a landfill or surface impoundment, only if such unit is in compliance with the requirements specified in subparagraph (1)(e) of this rule.
 - 4. The requirements of parts 1, 2, and 3 of this subparagraph do not apply if:
 - (i) The wastes meet the applicable treatment standards specified in paragraph (3) of this rule;
 - (ii) Persons have been granted an exemption from a prohibition pursuant to a petition under subparagraph (1)(f) of this rule, with respect to those wastes and units covered by the petition;
 - (iii) The wastes meet the applicable alternate treatment standards established pursuant to a petition granted under subparagraph (3)(e) of this rule;

- (iv) Persons have been granted an extension to the effective date of a prohibition pursuant to subparagraph (1)(e) of this rule, with respect to these wastes covered by the extension.
- 5. To determine whether a hazardous waste identified in this subparagraph exceeds the applicable treatment standards specified in subparagraph (3)(a) of this rule, the initial generator must test a sample of the waste extract or the entire waste, depending on whether the treatment standards are expressed as concentrations in the waste extract or the waste, or the generator may use knowledge of the waste. If the waste contains constituents in excess of the applicable paragraph (3) of this rule levels, the waste is prohibited from land disposal, and all requirements of this rule are applicable, except as otherwise specified.
- (j) Waste Specific Prohibitions--Spent Aluminum Potliners; Reactive; and Carbamate Wastes [40 CFR 268.39]
 - On November 11, 1997, the wastes specified in Rule 0400-12-01-.02(4)(c) as Hazardous Waste Codes K156--K159, and K161; and in Rule 0400-12-01-.02(4)(d) as Hazardous Waste Codes P127, P128, P185, P188--P192, P194, P196--P199, P201--P205, U271, U278--U280, U364, U367, U372, U373, U387, U389, U394, U395, U404, and U409--U411 are prohibited from land disposal. In addition, soil and debris contaminated with any of these wastes are prohibited from land disposal.
 - 2. On November 11, 1997, the wastes identified in Rule 0400-12-01-.02(3)(d) as D003 that are managed in systems other than those whose discharge is regulated under the Clean Water Act (CWA), or that inject in Class I deep wells regulated under the Safe Drinking Water Act (SDWA), or that are zero dischargers that engage in CWA-equivalent treatment before ultimate land disposal, are prohibited from land disposal. This prohibition does not apply to unexploded ordnance and other explosive devices which have been the subject of an emergency response. (Such D003 wastes are prohibited unless they meet the treatment standard of DEACT before land disposal (see subparagraph (3)(a) of this rule)).
 - 3. November 11, 1997, the wastes specified in Rule 0400-12-01-.02(4)(c) as Hazardous Waste Code K088 are prohibited from land disposal. In addition, soil and debris contaminated with these wastes are prohibited from land disposal.
 - 4. On April 8, 1998, radioactive wastes mixed with K088, K156--K159, K161, P127, P128, P185, P188--P192, P194, P196--P199, P201--P205, U271, U278--U280, U364, U367, U372, U373, U387, U389, U394, U395, U404, or U409--U411 are prohibited from land disposal. In addition, soil and debris contaminated with any of these radioactive mixed wastes are prohibited from land disposal.
 - 5. Between November 11, 1997 and April 8, 1998, the wastes included in parts 1, 3, and 4 of this subparagraph may be disposed in a landfill or surface impoundment, only if such unit is in compliance with the requirements specified in subparagraph (1)(e) of this rule.
 - 6. The requirements of parts 1, 2, 3, and 4 of this subparagraph do not apply if:
 - (i) The wastes meet the applicable treatment standards specified in paragraph (3) of this rule;

- (ii) Persons have been granted an exemption from a prohibition pursuant to a petition under subparagraph (1)(f) of this rule, with respect to those wastes and units covered by the petition;
- (iii) The wastes meet the applicable alternate treatment standards established pursuant to a petition granted under subparagraph (3)(e) of this rule;
- (iv) Persons have been granted an extension to the effective date of a prohibition pursuant to subparagraph (1)(e) of this rule, with respect to these wastes covered by the extension.
- 7. To determine whether a hazardous waste identified in this subparagraph exceeds the applicable treatment standards specified in subparagraph (3)(a) of this rule, the initial generator must test a sample of the waste extract or the entire waste, depending on whether the treatment standards are expressed as concentrations in the waste extract or the waste, or the generator may use knowledge of the waste. If the waste contains constituents in excess of the applicable paragraph (3) of this rule levels, the waste is prohibited from land disposal, and all requirements of this rule are applicable, except as otherwise specified.
- (k) Waste Specific Prohibitions—Dyes and/or Pigments Production Wastes [40 CFR 268.20]
 - 1. Effective August 23, 2005, the waste specified in Rule 0400-12-01-.02 as EPA Hazardous Waste Code K181, and soil and debris contaminated with this waste, radioactive wastes mixed with this waste, and soil and debris contaminated with radioactive wastes mixed with this waste are prohibited from land disposal.
 - 2. The requirements of part 1 of this subparagraph do not apply if:
 - (i) The wastes meet the applicable treatment standards specified in paragraph (3) of this rule;
 - (ii) Persons have been granted an exemption from a prohibition pursuant to a petition under subparagraph (1)(f) of this rule, with respect to those wastes and units covered by the petition;
 - (iii) The wastes meet the applicable treatment standards established pursuant to a petition granted under subparagraph (3)(e) of this rule;
 - (iv) Hazardous debris has met the treatment standards in subparagraph (3)(a) of this rule or the alternative treatment standards in subparagraph (3)(f) of this rule; or
 - (v) Persons have been granted an extension to the effective date of a prohibition pursuant to subparagraph (1)(e) of this rule, with respect to these wastes covered by the extension.
 - 3. To determine whether a hazardous waste identified in this subparagraph exceeds the applicable treatment standards specified in subparagraph (3)(a) of this rule, the initial generator must test a sample of the waste extract or the entire waste, depending on whether the treatment standards are expressed as concentrations in the waste extract of the waste, or the generator may use knowledge of the waste. If the waste contains regulated constituents in excess of the applicable paragraph (3) of this rule levels, the waste is prohibited from land

disposal, and all requirements of this rule are applicable, except as otherwise specified.

- (I) through (t) (RESERVED) [40 CFR 268.21-268.29]
- (3) Treatment Standards [40 CFR 268 Subpart D]
 - (a) Applicability of Treatment Standards [40 CFR 268.40]
 - 1. A prohibited waste identified in the table "Treatment Standards for Hazardous Wastes" may be land disposed only if it meets the requirements found in the table. For each waste, the table identifies one of three types of treatment standard requirements:
 - (i) All hazardous constituents in the waste or in the treatment residue must be at or below the values found in the table for that waste ("total waste standards"); or
 - (ii) The hazardous constituents in the extract of the waste or in the extract of the treatment residue must be at or below the values found in the table ("waste extract standards"); or
 - (iii) The waste must be treated using the technologies specified in the table ("technology standard"), which are described in detail in Table 1-Technology Codes and Description of Technology-Based Standards in subparagraph (3)(c) of this rule.
 - 2. For wastewaters, compliance with concentration level standards is based on maximums for any one day, except for D004 through D011 wastes for which the previously promulgated treatment standards based on grab samples remain in effect. For all nonwastewaters, compliance with concentration level standards is based on grab sampling. For wastes covered by the waste extract standards, the test Method 1311, the Toxicity Characteristic Leaching Procedure found in "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", EPA Publication SW-846, listed in 40 CFR 260.11; Rule 0400-12-01-.01(2)(b)1, must be used to measure compliance. An exception is made for D004 and D008, for which either of two test methods may be used: Method 1311, or Method 1310B, the Extraction Procedure Toxicity Test. For wastes covered by a technology standard, the wastes may be land disposed after being treated using that specified technology or an equivalent treatment technology approved by the Administrator under the procedures set forth in 40 CFR 268.42(b).
 - 3. When wastes with differing treatment standards for a constituent of concern are combined for purposes of treatment, the treatment residue must meet the lowest treatment standard for the constituent of concern.
 - 4. Notwithstanding the prohibitions specified in part 1 of this subparagraph, treatment and disposal facilities may demonstrate (and certify pursuant to subpart (1)(g)2(v) of this rule) compliance with the treatment standards for organic constituents specified by a footnote in the table "Treatment Standards for Hazardous Wastes" in this subparagraph, provided the following conditions are satisfied:
 - (i) The treatment standards for the organic constituents were established based on incineration in units operated in accordance with the technical requirements of Rule 0400-12-01-.06(15), or based on combustion in fuel

- substitution units operating in accordance with applicable technical requirements:
- (ii) The treatment or disposal facility has used the methods referenced in subpart (i) of this part to treat the organic constituents; and
- (iii) The treatment or disposal facility may demonstrate compliance with organic constituents if good-faith analytical efforts achieve detection limits for the regulated organic constituents that do not exceed the treatment standards specified in this subparagraph by an order of magnitude.
- 5. For characteristic wastes (D001--D043) that are subject to treatment standards in the following table "Treatment Standards for Hazardous Wastes" and are not managed in a wastewater treatment system that is regulated under the Clean Water Act (CWA), that is CWA-equivalent, or that is injected into a Class I nonhazardous deep injection well, all underlying hazardous constituents (as defined in part (1)(b)10 of this rule) must meet Universal Treatment Standards, found in subparagraph (i) of this paragraph, "Table Universal Treatment Standards," prior to land disposal as defined in part (1)(b)6 of this rule.
- 6. The treatment standards for F001--F005 nonwastewater constituents carbon disulfide, cyclohexanone, and/or methanol apply to wastes which contain only one, two, or three of these constituents. Compliance is measured for these constituents in the waste extract from test Method 1311, the Toxicity Characteristic Leaching Procedure found in "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", EPA Publication SW-846, listed in 40 CFR 260.11; Rule 0400-12-01-.01(2)(b). If the waste contains any of these three constituents along with any of the other 25 constituents found in F001--F005, then compliance with treatment standards for carbon disulfide, cyclohexanone, and/or methanol are not required.
- Between August 26, 1996 and March 4, 1999 the treatment standards for the 7. wastes specified in Rule 0400-12-01-.02(4)(c) as Hazardous Waste Codes K156--K161; and in Rule 0400-12-01-.02(4)(d) as Hazardous Waste Codes P127, P128, P185, P188--P192, P194, P196--P199, P201--P205, U271, U277--U280, U364--U367, U372, U373, U375--U379, U381--U387, U389--U396, U400--U404, U407, and U409--U411: and soil contaminated with these wastes; may be satisfied by either meeting the constituent concentrations presented in the table "Treatment Standards for Hazardous Wastes" in this subparagraph, or by treating the waste by the following technologies; combustion, as defined by the technology code CMBST at subparagraph (c) of this paragraph Table 1, for nonwastewaters; and biodegradation as defined by the technology code BIODG, carbon adsorption as defined by the technology code CARBN, chemical oxidation as defined by the technology code CHOXD, or combustion as defined as technology code CMBST at subparagraph (c) of this paragraph Table 1, for wastewaters.
- 8. Prohibited D004--D011 mixed radioactive wastes and mixed radioactive listed wastes containing metal constituents, that were previously treated by stabilization to the treatment standards in effect at that time and then put into storage, do not have to be retreated to meet treatment standards in this subparagraph prior to land disposal.
- 9. [RESERVED] [40 CFR 268.40(i)]

10. Effective November 28, 2000, the treatment standards for the wastes specified in Rule 0400-12-01-.02(4)(d) as Hazardous Waste Codes P185, P191, P192, P197, U364, U394, and U395 may be satisfied by either meeting the constituent concentrations presented in the table "Treatment Standards for Hazardous Wastes" in this subparagraph, or by treating the waste by the following technologies: combustion, as defined by the technology code CMBST at subparagraph (c) Table 1 of this paragraph, for nonwastewaters; and, biodegradation as defined by the technology code BIODG, carbon adsorption as defined by the technology code CARBN, chemical oxidation as defined by the technology code CHOXD, or combustion as defined as technology code CMBST at subparagraph (c) Table 1 of this paragraph, for wastewaters.

TREATMENT STANDARDS FOR HAZARDOUS WASTES (Note: Abbreviated rule citations refer to Chapter 0400-12-01.) (Note. NA means Not Applicable.)

Waste	Waste Description and	(Note. NA means Not a REGULATED HA		WASTE-	NON-WASTE-
Code	Treatment/Regulatory Subcategory ¹	CONSTITUENT		WATERS	WATERS
		Common Name	CAS ² Number	Concentration ³ in mg/l; Or Technology Code ⁴	Concentration ⁵ in mg/kg unless noted as "mg/l TCLP"; or Technology Code ⁴
D001 ⁹	Ignitable Characteristic Wastes, except for the Rule 0400-12-0102(3)(b)1(i) High TOC Subcategory.	NA	NA	DEACT and meet .10(3)(i) standards ⁸ ; or RORGS; or CMBST	DEACT and meet Rule 0400-12-01- .10(3)(i) standards ⁸ ; or RORGS; or CMBST
	High TOC Ignitable Characteristic Liquids Subcategory based on Rule 0400-12-0102(3)(b)1(i) - Greater than or equal to 10% total organic carbon. (Note: This subcategory consists of nonwastewaters only.)	NA	NA	NA	RORGS; CMBST; or POLYM
D002 ⁹	Corrosive Characteristic Wastes.	NA	NA	DEACT and meet .10(3)(i) standards ⁸	DEACT and meet Rule 0400-12-01- .10(3)(i) standards ⁸
D002, D004, D005, D006, D007, D008, D009, D010, D011	Radioactive high level wastes generated during the reprocessing of fuel rods. (Note: This subcategory consists of nonwastewaters only.)	Corrosivity (pH)	NA	NA	HLVIT
		Arsenic	7440-38-2	NA	HLVIT
		Barium	7440-39-3	NA	HLVIT
		Cadmium	7440-43-9	NA	HLVIT
		Chromium (Total)	7440-47-3	NA	HLVIT

Kule 0400-	-12-0110, continued)				
		Lead	7439-92-1	NA	HLVIT
		Mercury	7439-97-6	NA	HLVIT
		Selenium	7782-49-2	NA	HLVIT
		Silver	7440-22-4	NA	HLVIT
D003 ⁹	Reactive Sulfides Subcategory based on Rule 0400-12-0102(3)(d)1(v).	NA	NA	DEACT	DEACT
	Explosives Subcategory based on Rule 0400-12-0102(3)(d)1(vi), (vii) and (viii).	NA	NA	DEACT and meet .10(3)(i) standards ⁸	DEACT and meet Rule 0400-12-01- .10(3)(i) standards ⁸
	Unexploded ordnance and other explosive devices which have been the subject of an emergency response.	NA	NA	DEACT	DEACT
	Other Reactives Subcategory based on Rule 0400-12-0102(3)(d)1(i).	NA	NA	DEACT and meet .10(3)(i) standards ⁸	DEACT and meet Rule 0400-12-01- .10(3)(i) standards8
	Water Reactive Subcategory based on Rule 0400-12-0102(3)(d)1(ii), (iii) and (iv). (Note: This subcategory consists of nonwastewaters only.)	NA	NA	NA	DEACT and meet Rule 0400-12-01- .10(3)(i) standards ⁸
	Reactive Cyanides Subcategory based on Rule 0400-12-0102(3)(d)1(v).	Cyanides (Total) ⁷	57-12-5	Reserved	590
		Cyanides (Amenable) ⁷	57-12-5	0.86	30
D004 ⁹	Wastes that exhibit, or are expected to exhibit, the characteristic of toxicity for arsenic based on the toxicity characteristic leaching procedure (TCLP) in SW846.	Arsenic	7440-38-2	1.4 and meet .10(3)(i) standards ⁸	5.0 mg/l TCLP and meet Rule 0400-12-01- .10(3)(i) standards ⁸
D005 ⁹	Wastes that exhibit, or are expected to exhibit, the characteristic of toxicity for barium based on the toxicity characteristic leaching procedure (TCLP) in SW846.	Barium	7440-39-3	1.2 and meet .10(3)(i) standards ⁸	21 mg/l TCLP and meet Rule 0400-12-01- .10(3)(i) standards ⁸

<u>`</u>	12-0110, continued)		7440 40 6	2.22	0.44 ".70: 7
D006 ⁹	Wastes that exhibit, or are expected to exhibit, the characteristic of toxicity for cadmium based on the toxicity characteristic leaching procedure (TCLP) in SW846.	Cadmium	7440-43-9	0.69 and meet .10(3)(i) standards ⁸	0.11 mg/l TCLP and meet Rule 0400-12-01- .10(3)(i) standards ⁸
	Cadmium Containing Batteries Subcategory. (Note: This subcategory consists of nonwastewaters only.)	Cadmium	7440-43-9	NA	RTHRM
D006 ⁹	Radioactively contaminated cadmium containing batteries. (Note: This subcategory consists of nonwastewaters only)	Cadmium	7440-43-9	NA	Macroencap- sulation in accordance with subparagraph .10(3)(f)
D007 ⁹	Wastes that exhibit, or are expected to exhibit, the characteristic of toxicity for chromium based on the toxicity characteristic leaching procedure (TCLP) in SW846.	Chromium (Total)	7440-47-3	2.77 and meet .10(3)(i) standards ⁸	0.60 mg/l TCLP and meet Rule 0400-12-01- .10(3)(i) standards ⁸
D008 ⁹	Wastes that exhibit, or are expected to exhibit, the characteristic of toxicity for lead based on the toxicity characteristic leaching procedure (TCLP) in SW846.	Lead	7439-92-1	0.69 and meet .10(3)(i) standards ⁸	0.75 mg/l TCLP and meet Rule 0400-12-01- .10(3)(i) standards ⁸
	Lead Acid Batteries Subcategory (Note: This standard only applies to lead acid batteries that are identified as RCRA hazardous wastes and that are not excluded elsewhere from regulation under the land disposal restrictions of Rule 0400-12-0110 or exempted under other regulations (see Rule 0400-12-0109(7)(a)). This subcategory consists of nonwastewaters only.)	Lead	7439-92-1	NA	RLEAD

(Nule 0400-	12-0110, continued)				
	Radioactive Lead Solids Subcategory (Note: these lead solids include, but are not limited to, all forms of lead shielding and other elemental forms of lead. These lead solids do not include treatment residuals such as hydroxide sludges, other wastewater treatment residuals, or incinerator ashes that can undergo conventional pozzolanic stabilization, nor do they include organo-lead materials that can be incinerated and stabilized as ash. This subcategory consists of nonwastewaters only.)	Lead	7439-92-1	NA	MACRO
D009 9	Nonwastewaters that exhibit, or are expected to exhibit, the characteristic of toxicity for mercury based on the toxicity characteristic leaching procedure (TCLP) in SW846; and contain greater than or equal to 260 mg/kg total mercury that also contain organics and are not incinerator residues. (High Mercury-Organic Subcategory)	Mercury	7439-97-6	NA	IMERC; OR RMERC
	Nonwastewaters that exhibit, or are expected to exhibit, the characteristic of toxicity for mercury based on the toxicity characteristic leaching procedure (TCLP) in SW846; and contain greater than or equal to 260 mg/kg total mercury that are inorganic, including incinerator residues and residues from RMERC. (High Mercury-Inorganic Subcategory)	Mercury	7439-97-6	NA	RMERC

(Rule 0400	- <u>12-0110, continued)</u>				
	Nonwastewaters that exhibit, or are expected to exhibit, the characteristic of toxicity for mercury based on the toxicity characteristic leaching procedure (TCLP) in SW846; and contain less than 260 mg/kg total mercury and that are residues from RMERC only. (Low Mercury Subcategory)	Mercury	7439-97-6	NA	0.20 mg/l TCLP and meet Rule 0400-12-01- .10(3)(i) standards ⁸
	All other nonwastewaters that exhibit, or are expected to exhibit, the characteristic of toxicity for mercury based on the toxicity characteristic leaching procedure (TCLP) in SW846; and contain less than 260 mg/kg total mercury and that are not residues from RMERC. (Low Mercury Subcategory)	Mercury	7439-97-6	NA	0.025 mg/l TCLP and meet Rule 0400-12-01- .10(3)(i) standards ⁸
	All D009 wastewaters.	Mercury	7439-97-6	0.15 and meet - .10(3)(i) standards ⁸	NA
	Elemental mercury contaminated with radioactive materials. (Note: This subcategory consists of nonwastewaters only.)	Mercury	7439-97-6	NA	AMLGM
	Hydraulic oil contaminated with Mercury Radioactive Materials Subcategory. (Note: This subcategory consists of nonwastewaters only.)	Mercury	7439-97-6	NA	IMERC
D009 9	Radioactively contaminated mercury containing batteries. (Note: This subcategory consists of nonwastewaters only)	Mercury	7439-97-6	NA	Macroencap- sulation in accordance with subparagraph .10(3)(f)
D010 ⁹	Wastes that exhibit, or are expected to exhibit, the characteristic of toxicity for selenium based on the toxicity characteristic leaching procedure (TCLP) in SW846.	Selenium	7782-49-2	0.82 and meet - .10(3)(i) standards ⁸	5.7 mg/l TCLP and meet10(3)(i) standards ⁸

(Nule 0400-	12-0110, continued)				
D011 ⁹	Wastes that exhibit, or are expected to exhibit, the characteristic of toxicity for silver based on the toxicity characteristic leaching procedure (TCLP) in SW846.	Silver	7440-22-4	0.43 and meet - .10(3)(i) standards ⁸	0.14 mg/l TCLP and meet10(3)(i) standards ⁸
D011 ⁹	Radioactively contaminated silver containing batteries. (Note: This subcategory consists of nonwastewaters only)	Silver	7440-22-4	NA	Macroencapsulation in accordance with subparagraph .10(3)(f)
D012 ⁹	Wastes that are TC for Endrin based on the TCLP in SW846 Method 1311.	Endrin	72-20-8	BIODG; or CMBST	0.13 and meet10(3)(i) standards ⁸
		Endrin aldehyde	7421-93-4	BIODG; or CMBST	0.13 and meet10(3)(i) standards ⁸
D013 ⁹	Wastes that are TC for Lindane based on the TCLP in SW846 Method 1311.	alpha-BHC	319-84-6	CARBN; or CMBST	0.066 and meet10(3)(i) standards ⁸
		beta-BHC	319-85-7	CARBN; or CMBST	0.066 and meet10(3)(i) standards ⁸
		delta-BHC	319-86-8	CARBN; or CMBST	0.066 and meet10(3)(i) standards ⁸
		gamma-BHC (Lindane)	58-89-9	CARBN; or CMBST	0.066 and meet10(3)(i) standards ⁸
D014 ⁹	Wastes that are TC for Methoxychlor based on the TCLP in SW846 Method 1311.	Methoxychlor	72-43-5	WETOX or CMBST	0.18 and meet10(3)(i) standards ⁸
D015 ⁹	Wastes that are TC for Toxaphene based on the TCLP in SW846 Method 1311.	Toxaphene	8001-35-2	BIODG or CMBST	2.6 and meet10(3)(i) standards ⁸

<u>`</u>	12-0110, continued)	,			1
D016 ⁹	Wastes that are TC for 2,4-D (2,4-Dichlorophenoxyacetic acid) based on the TCLP in SW846 Method 1311.	2,4-D (2,4- Dichloropheno-xyacetic acid)	94-75-7	CHOXD, BIODG, or CMBST	10 and meet10(3)(i) standards ⁸
D017 ⁹	Wastes that are TC for 2,4,5-TP (Silvex) based on the TCLP in SW846 Method 1311.	2,4,5-TP (Silvex)	93-72-1	CHOXD or CMBST	7.9 and meet10(3)(i) standards ⁸
D018 ⁹	Wastes that are TC for Benzene based on the TCLP in SW846 Method 1311.	Benzene	71-43-2	0.14 and meet - .10(3)(i) standards ⁸	10 and meet10(3)(i) standards ⁸
D019 9	Wastes that are TC for Carbon tetrachloride based on the TCLP in SW846 Method 1311.	Carbon tetrachloride	56-23-5	0.057 and meet - .10(3)(i) standards ⁸	6.0 and meet10(3)(i) standards ⁸
D020 9	Wastes that are TC for Chlordane based on the TCLP in SW846 Method 1311.	Chlordane (alpha and gamma isomers)	57-74-9	0.0033 and meet - .10(3)(i) standards ⁸	0.26 and meet10(3)(i) standards ⁸
D021 9	Wastes that are TC for Chlorobenzene based on the TCLP in SW846 Method 1311.	Chlorobenzene	108-90-7	0.057 and meet - .10(3)(i) standards ⁸	6.0 and meet10(3)(i) standards ⁸
D022 ⁹	Wastes that are TC for Chloroform based on the TCLP in SW846 Method 1311.	Chloroform	67-66-3	0.046 and meet - .10(3)(i) standards ⁸	6.0 and meet10(3)(i) standards ⁸
D023 ⁹	Wastes that are TC for o- Cresol based on the TCLP in SW846 Method 1311.	o-Cresol	95-48-7	0.11 and meet - .10(3)(i) standards ⁸	5.6 and meet10(3)(i) standards ⁸
D024 ⁹	Wastes that are TC for m- Cresol based on the TCLP in SW846 Method 1311.	m-Cresol (difficult to distinguish from p-cresol)	108-39-4	0.77 and meet - .10(3)(i) standards ⁸	5.6 and meet10(3)(i) standards ⁸
D025 ⁹	Wastes that are TC for p- Cresol based on the TCLP in SW846 Method 1311.	p-Cresol (difficult to distinguish from m- cresol)	106-44-5	0.77 and meet - .10(3)(i) standards ⁸	5.6 and meet10(3)(i) standards ⁸

(1100 0-100	12-0110, continued)				
D026 ⁹	Wastes that are TC for Cresols (Total) based on the TCLP in SW846 Method 1311.	Cresol-mixed isomers (Cresylic acid)(sum of o-, m-, and p-cresol concentrations)	1319-77-3	0.88 and meet - .10(3)(i) standards ⁸	11.2 and meet10(3)(i) standards ⁸
D027 ⁹	Wastes that are TC for p- Dichlorobenzene based on the TCLP in SW846 Method 1311.	p-Dichlorobenzene (1,4-Dichlorobenzene)	106-46-7	0.090 and meet - .10(3)(i) standards ⁸	6.0 and meet10(3)(i) standards ⁸
D028 ⁹	Wastes that are TC for 1,2- Dichloroethane based on the TCLP in SW846 Method 1311.	1,2-Dichloroethane	107-06-2	0.21 and meet - .10(3)(i) standards ⁸	6.0 and meet10(3)(i) standards ⁸
D029 9	Wastes that are TC for 1,1-Dichloroethylene based on the TCLP in SW846 Method 1311.	1,1-Dichloroethylene	75-35-4	0.025 and meet - .10(3)(i) standards ⁸	6.0 and meet10(3)(i) standards ⁸
D030 ⁹	Wastes that are TC for 2,4-Dinitrotoluene based on the TCLP in SW846 Method 1311.	2,4-Dinitrotoluene	121-14-2	0.32 and meet - .10(3)(i) standards ⁸	140 and meet10(3)(i) standards ⁸
D031 ⁹	Wastes that are TC for Heptachlor based on the TCLP in SW846 Method 1311.	Heptachlor	76-44-8	0.0012 and meet - .10(3)(i) standards ⁸	0.066 and meet10(3)(i) standards ⁸
		Heptachlor epoxide	1024-57-3	0.016 and meet - .10(3)(i) standards ⁸	0.066 and meet10(3)(i) standards ⁸
D032 ⁹	Wastes that are TC for Hexachlorobenzene based on the TCLP in SW846 Method 1311.	Hexachloro-benzene	118-74-1	0.055 and meet - .10(3)(i) standards ⁸	10 and meet10(3)(i) standards ⁸
D033 ⁹	Wastes that are TC for Hexachlorobutadiene based on the TCLP in SW846 Method 1311.	Hexachloro-butadiene	87-68-3	0.055 and meet - .10(3)(i) standards ⁸	5.6 and meet10(3)(i) standards ⁸
D034 ⁹	Wastes that are TC for Hexachloroethane based on the TCLP in SW846 Method 1311.	Hexachloroethane	67-72-1	0.055 and meet - .10(3)(i) standards ⁸	30 and meet10(3)(i) standards ⁸

	12-0110, continued)				
D035 ⁹	Wastes that are TC for Methyl ethyl ketone based on the TCLP in SW846 Method 1311.	Methyl ethyl ketone	78-93-3	0.28 and meet - .10(3)(i) standards ⁸	36 and meet10(3)(i) standards ⁸
D036 ⁹	Wastes that are TC for Nitrobenzene based on the TCLP in SW846 Method 1311.	Nitrobenzene	98-95-3	0.068 and meet - .10(3)(i) standards ⁸	14 and meet10(3)(i) standards ⁸
D037 9	Wastes that are TC for Pentachlorophenol based on the TCLP in SW846 Method 1311.	Pentachlorophenol	87-86-5	0.089 and meet - .10(3)(i) standards ⁸	7.4 and meet10(3)(i) standards ⁸
D038 ⁹	Wastes that are TC for Pyridine based on the TCLP in SW846 Method 1311.	Pyridine	110-86-1	0.014 and meet - .10(3)(i) standards ⁸	16 and meet10(3)(i) standards ⁸
D039 9	Wastes that are TC for Tetrachloroethylene based on the TCLP in SW846 Method 1311.	Tetrachloro-ethylene	127-18-4	0.056 and meet - .10(3)(i) standards ⁸	6.0 and meet10(3)(i) standards ⁸
D040 9	Wastes that are TC for Trichloroethylene based on the TCLP in SW846 Method 1311.	Trichloroethylene	79-01-6	0.054 and meet - .10(3)(i) standards ⁸	6.0 and meet10(3)(i) standards ⁸
D041 ⁹	Wastes that are TC for 2,4,5- Trichlorophenol based on the TCLP in SW846 Method 1311.	2,4,5-Trichlorophenol	95-95-4	0.18 and meet - .10(3)(i) standards ⁸	7.4 and meet10(3)(i) standards ⁸
D042 ⁹	Wastes that are TC for 2,4,6- Trichlorophenol based on the TCLP in SW846 Method 1311.	2,4,6-Trichlorophenol	88-06-2	0.035 and meet - .10(3)(i) standards ⁸	7.4 and meet10(3)(i) standards ⁸
D043 ⁹	Wastes that are TC for Vinyl chloride based on the TCLP in SW846 Method 1311.	Vinyl chloride	75-01-4	0.27 and meet - .10(3)(i) standards ⁸	6.0 and meet10(3)(i) standards ⁸

<u>` </u>	12-0110, continued)				
F001, F002, F003, F004, & F005	F001, F002, F003, F004 and/or F005 solvent wastes that contain any combination of one or more of the following spent solvents: acetone, benzene, n-butyl alcohol, carbon disulfide, carbon tetrachloride, chlorinated fluorocarbons, chlorobenzene, o-cresol, mcresol, p-cresol, cyclohexanone, o-dichlorobenzene, ethyl acetate, ethyl benzene, ethyl acetate, ethyl benzene, ethyl ether, isobutyl alcohol, methanol, methylene chloride, methyl ethyl ketone, nitrobenzene, 2-nitropropane, pyridine, tetrachloroethylene, toluene, 1,1,1-trichloroethane, 1,1,2-trichloroethane, trichloroethylene, trichloroethylene, trichloroethylene, trichloroethylene, trichloroethylene, trichloromonofluoromethane, and/or xylenes [except as specifically noted in other subcategories]. See further details of these listings in Rule 0400-12-01-02(4)(b).	Acetone	67-64-1	0.28	160
		Benzene	71-43-2	0.14	10
		n-Butyl alcohol	71-36-3	5.6	2.6
		Carbon disulfide	75-15-0	3.8	NA
		Carbon tetrachloride	56-23-5	0.057	6.0
		Chlorobenzene	108-90-7	0.057	6.0
		o-Cresol	95-48-7	0.11	5.6
		m-Cresol (difficult to distinguish from p-cresol)	108-39-4	0.77	5.6

		'	
p-Cresol (difficult to distinguish from m-cresol)	106-44-5	0.77	5.6
Cresol-mixed isomers (Cresylic acid) (sum of o-, m-, and p- cresol concentrations)	1319-77-3	0.88	11.2
Cyclohexanone	108-94-1	0.36	NA
o-Dichlorobenzene	95-50-1	0.088	6.0
Ethyl acetate	141-78-6	0.34	33
Ethyl benzene	100-41-4	0.057	10
Ethyl ether	60-29-7	0.12	160
Isobutyl alcohol	78-83-1	5.6	170
Methanol	67-56-1	5.6	NA
Methylene chloride	75-9-2	0.089	30
Methyl ethyl ketone	78-93-3	0.28	36
Methyl isobutyl ketone	108-10-1	0.14	33
Nitrobenzene	98-95-3	0.068	14
Pyridine	110-86-1	0.014	16
Tetrachloro-ethylene	127-18-4	0.056	6.0
Toluene	108-88-3	0.080	10
1,1,1-Trichloroethane	71-55-6	0.054	6.0

12-0110, continued)				
	1,1,2-Trichloroethane	79-00-5	0.054	6.0
	1,1,2-Trichloro-1,2,2- trifluoroethane	76-13-1	0.057	30
	Trichloroethylene	79-01-6	0.054	6.0
	Trichloromono- fluoromethane	75-69-4	0.020	30
	Xylenes-mixed isomers (sum of o-, m-, and p-xylene concentrations)	1330-20-7	0.32	30
F003 and/or F005 solvent wastes that contain any combination of one or more of the following three solvents as the only listed F001-5 solvents: carbon disulfide, cyclohexanone, and/or methanol. (formerly Rule 0400-12-0110(3)(b)3)	Carbon disulfide	75-15-0	3.8	4.8 mg/l TCLP
	Cyclohexanone	108-94-1	0.36	0.75 mg/l TCLP
	Methanol	67-56-1	5.6	0.75 mg/l TCLP
F005 solvent waste containing 2-Nitropropane as the only listed F001-5 solvent.	2-Nitropropane	79-46-9	(WETOX or CHOXD) fb CARBN; or CMBST	CMBST
F005 solvent waste containing 2-Ethoxyethanol as the only listed F001-5 solvent.	2-Ethoxyethanol	110-80-5	BIODG: or CMBST	CMBST
	F003 and/or F005 solvent wastes that contain any combination of one or more of the following three solvents as the only listed F001-5 solvents: carbon disulfide, cyclohexanone, and/or methanol. (formerly Rule 0400-12-0110(3)(b)3) F005 solvent waste containing 2-Nitropropane as the only listed F001-5 solvent. F005 solvent waste containing 2-Ethoxyethanol as the only listed F001-5	Trichloroethane 1,1,2-Trichloro-1,2,2- trifluoroethane Trichloroethylene Trichloromono- fluoromethane Xylenes-mixed isomers (sum of o-, m-, and p- xylene concentrations) F003 and/or F005 solvent wastes that contain any combination of one or more of the following three solvents as the only listed F001-5 solvents: carbon disulfide, cyclohexanone, and/or methanol. (formerly Rule 0400-12-0110(3)(b)3) Cyclohexanone Methanol F005 solvent waste containing 2-Nitropropane as the only listed F001-5 solvent. F005 solvent waste containing 2-Ethoxyethanol as the only listed F001-5	1,1,2-Trichloroethane 79-00-5	1,1,2-Trichloroethane

F006	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 zincaluminum 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.	Cadmium	7440-43-9	0.69	0.11 mg/l TCLP
		Chromium (Total)	7440-47-3	2.77	0.60 mg/l TCLP
		Cyanides (Total) ⁷	57-12-5	1.2	590
		Cyanides (Amenable) ⁷	57-12-5	0.86	30
		Lead	7439-92-1	0.69	0.75 mg/l TCLP
		Nickel	7440-02-0	3.98	11 mg/l TCLP
		Silver	7440-22-4	NA	0.14 mg/I TCLP
F007	Spent cyanide plating bath solutions from electroplating	Cadmium	7440-43-9	NA	0.11 mg/l TCLP
	operations.	Chromium (Total)	7440-47-3	2.77	0.60 mg/l TCLP
		Cyanides (Total) ⁷	57-12-5	1.2	590
		Cyanides (Amenable) ⁷	57-12-5	0.86	30
		Lead	7439-92-1	0.69	0.75 mg/I TCLP
		Nickel	7440-02-0	3.98	11 mg/l TCLP
		Silver	7440-22-4	NA	0.14 mg/l TCLP

12-0110, continued)				
the bottom of plating baths from electroplating operations where cyanides	Cadmium	7440-43-9	NA	0.11 mg/l TCLP
·	Chromium (Total)	7440-47-3	2.77	0.60 mg/l TCLP
	Cyanides (Total) ⁷	57-12-5	1.2	590
	Cyanides (Amenable) ⁷	57-12-5	0.86	30
	Lead	7439-92-1	0.69	0.75 mg/I TCLP
	Nickel	7440-02-0	3.98	11 mg/I TCLP
	Silver	7440-22-4	NA	0.14 mg/l TCLP
Spent stripping and cleaning bath solutions from electroplating operations where cyanides are used in the process.	Cadmium	7440-43-9	NA	0.11 mg/l TCLP
	Chromium (Total)	7440-47-3	2.77	0.60 mg/l TCLP
	Cyanides (Total) ⁷	57-12-5	1.2	590
	Cyanides (Amenable) ⁷	57-12-5	0.86	30
	Lead	7439-92-1	0.69	0.75 mg/l TCLP
	Nickel	7440-02-0	3.98	11 mg/I TCLP
	Silver	7440-22-4	NA	0.14 mg/I TCLP
Quenching bath residues from oil baths from metal heat treating operations where cyanides are used in the process.	Cyanides (Total) ⁷	57-12-5	1.2	590
	Cyanides (Amenable) ⁷	57-12-5	0.86	NA
	Plating bath residues from the bottom of plating baths from electroplating operations where cyanides are used in the process. Spent stripping and cleaning bath solutions from electroplating operations where cyanides are used in the process. Quenching bath residues from oil baths from metal heat treating operations where cyanides are used in	Plating bath residues from the bottom of plating baths from electroplating operations where cyanides are used in the process. Chromium (Total)	Plating bath residues from the bottom of plating baths from electroplating operations where cyanides are used in the process. Chromium (Total) 7440-47-3	Plating bath residues from the bottom of plating baths from electroplating operations where cyanides are used in the process. Chromium (Total) 7440-47-3 2.77

Spent cyanide solutions from	Cadmium	7440-43-9	NA	0.11 mg/l TCLP
metal heat treating operations.				
	Chromium (Total)	7440-47-3	2.77	0.60 mg/l TCLP
	Cyanides (Total) ⁷	57-12-5	1.2	590
	Cyanides (Amenable) ⁷	57-12-5	0.86	30
	Lead	7439-92-1	0.69	0.75 mg/l TCLP
	Nickel	7440-02-0	3.98	11 mg/l TCLP
	Silver	7440-22-4	NA	0.14 mg/l TCLP
Quenching wastewater treatment sludges from metal heat treating operations where cyanides are used in	Cadmium	7440-43-9	NA	0.11 mg/l TCLP
the process.	Chromium (Total)	7440-47-3	2.77	0.60 mg/l TCLP
	Cyanides (Total) ⁷	57-12-5	1.2	590
	Cyanides (Amenable) ⁷	57-12-5	0.86	30
	Lead	7439-92-1	0.69	0.75 mg/l TCLP
	Nickel	7440-02-0	3.98	11 mg/l TCLP
	Silver	7440-22-4	NA	0.14 mg/l TCLP
Wastewater treatment sludges from the chemical conversion coating of aluminum except from zirconium phosphating in aluminum can washing when such phosphating is an	Chromium (Total)	7440-47-3	2.77	0.60 mg/l TCLP
exclusive conversion coating process.				
	Salt bath pot cleaning from metal heat treating operations. Quenching wastewater treatment sludges from metal heat treating operations where cyanides are used in the process. Wastewater treatment sludges from the chemical conversion coating of aluminum except from zirconium phosphating in aluminum can washing when	Spent cyanide solutions from salt bath pot cleaning from metal heat treating operations. Chromium (Total) Cyanides (Amenable) Cyanides (Amenable) Cyanides (Amenable) Lead Nickel Silver Cadmium Cadmium Cyanides (Amenable) Cyanides (Amenable) Civanides (Amenable) Cadmium Cyanides (Amenable) Civanides (Total) Cyanides (Total) Cyanides (Total) Cyanides (Total) Cyanides (Amenable) Cyanides (Amenable) Cyanides (Amenable) Cyanides (Amenable) Cyanides (Amenable) Cyanides (Total) Cyanides (Total) Cyanides (Total) Cyanides (Amenable) Chromium (Total) Covanides (Total) Cyanides (Amenable) Cyanides (Amenable) Cyanides (Amenable) Cyanides (Amenable) Cyanides (Total) Cyanides (Total) Cyanides (Total) Cyanides (Amenable) Covanides (Total) Cyanides (Total)	Spent cyanide solutions from salt bath pot cleaning from metal heat treating operations. Chromium (Total) 7440-47-3 Cyanides (Total)7 57-12-5 Cyanides (Amenable)7 57-12-5 Lead 7439-92-1 Nickel 7440-02-0 Silver 7440-22-4 Cadmium 7440-43-9 Chromium (Total) 7440-47-3 Cyanides (Amenable)7 57-12-5 Cyanides (Total)7 57-12-5 Cyanides (Amenable)7 57-12-5 Cyanides (Amenable)7 57-12-5 Cyanides (Total)7 7440-47-3 Cyanides (Total)7 7440-47-3	Cadmium T440-43-9

		Cyanides (Amenable) ⁷	57-12-5	0.86	30
F020, F021, F022, F023, F026	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: (1) tri- or tetrachlorophenol, or of intermediates used to produce their pesticide derivatives, excluding wastes from the production of Hexachlorophene from highly purified 2,4,5-trichlorophenol (F020); (2) pentachlorophenol, or of intermediates used to produce its derivatives (i.e., F021); (3) tetra-, penta-, or hexachlorobenzenes under alkaline conditions (i.e., F022); and 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: (1) tri- or tetrachlorophenols, excluding wastes from equipment used only for the production of Hexachlorophene from highly purified 2,4,5-trichlorophenol (F023); (2) tetra-, penta-, or hexachlorobenzenes under alkaline conditions (i.e., F026).	HxCDDs (All Hexachloro-dibenzo-p-dioxins)	NA	0.000063	0.001
		HxCDFs (All Hexachloro- dibenzofurans)	NA	0.000063	0.001
		PeCDDs (All Pentachloro-dibenzo-p- dioxins)	NA	0.000063	0.001
		PeCDFs (All Pentachloro- dibenzofurans)	NA	0.000035	0.001

		Pentachlorophenol	87-86-5	0.089	7.4
		TCDDs (All Tetrachloro-dibenzo-p- dioxins)	NA	0.000063	0.001
		TCDFs (All Tetrachloro- dibenzofurans)	NA	0.000063	0.001
		2,4,5-Trichlorophenol	95-95-4	0.18	7.4
		2,4,6-Trichlorophenol	88-06-2	0.035	7.4
		2,3,4,6- Tetrachlorophenol	58-90-2	0.030	7.4
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 Rule 0400-12-0102(4)(b) or (c)).	All F024 wastes	NA	CMBST ¹¹	CMBST ¹¹	
	2-Chloro-1,3-butadiene	126-99-8	0.057	0.28	
		3-Chloropropylene	107-05-1	0.036	30
		1,1-Dichloroethane	75-34-3	0.059	6.0
		i I			

(Rule 0400-	·12-0110, continued)				
		1,2-Dichloropropane	78-87-5	0.85	18
		cis-1,3- Dichloropropylene	10061-01-5	0.036	18
		trans-1,3- Dichloropropylene	10061-02-6	0.036	18
		bis(2-Ethylhexyl) phthalate	117-81-7	0.28	28
		Hexachloroethane	67-72-1	0.055	30
		Chromium (Total)	7440-47-3	2.77	0.60 mg/l TCLP
		Nickel	7440-02-0	3.98	11 mg/l TCLP
F025	Condensed light ends 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. F025 - Light Ends Subcategory	Carbon tetrachloride	56-23-5	0.057	6.0
	Cascategory	Chloroform	67-66-3	0.046	6.0
		1,2-Dichloroethane	107-06-2	0.21	6.0
		1,1-Dichloroethylene	75-35-4	0.025	6.0
		Methylene chloride	75-9-2	0.089	30
		1,1,2-Trichloroethane	79-00-5	0.054	6.0
		Trichloroethylene	79-01-6	0.054	6.0
1	I	I	1		1

(Rule 0400-	12-0110, continued)				
		Vinyl chloride	75-01-4	0.27	6.0
	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. F025 - Spent Filters/Aids and Desiccants Subcategory	Carbon tetrachloride	56-23-5	0.057	6.0
		Chloroform	67-66-3	0.046	6.0
		Hexachlorobenzene	118-74-1	0.055	10
		Hexachlorobutadiene	87-68-3	0.055	5.6
		Hexachloroethane	67-72-1	0.055	30
		Methylene chloride	75-9-2	0.089	30
		1,1,2-Trichloroethane	79-00-5	0.054	6.0
		Trichloroethylene	79-01-6	0.054	6.0
		Vinyl chloride	75-01-4	0.27	6.0
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.).	HxCDDs (All Hexachloro-dibenzo-p-dioxins)	NA	0.000063	0.001

uie 0400-	·12-0110, continued)				
		HxCDFs (All Hexachloro-dibenzofurans)	NA	0.000063	0.001
		PeCDDs (All Pentachloro-dibenzo-p- dioxins)	NA	0.000063	0.001
		PeCDFs (All Pentachloro- dibenzofurans)	NA	0.000035	0.001
		Pentachlorophenol	87-86-5	0.089	7.4
		TCDDs (All Tetrachloro-dibenzo-p- dioxins)	NA	0.000063	0.001
		TCDFs (All Tetrachloro- dibenzofurans)	NA	0.000063	0.001
		2,4,5-Trichlorophenol	95-95-4	0.18	7.4
		2,4,6-Trichlorophenol	88-06-2	0.035	7.4
		2,3,4,6- Tetrachlorophenol	58-90-2	0.030	7.4
incineration or thermal treatment of so contaminated with Hazardous Wastes Code F020, F021, F023, F026, an	treatment of soil	HxCDDs (All Hexachloro-dibenzo-p- dioxins)	NA	0.000063	0.001
	1027.	HxCDFs (All Hexachloro-dibenzofurans)	NA	0.000063	0.001
		PeCDDs (All Pentachloro-dibenzo-p- dioxins)	NA	0.000063	0.001
		PeCDFs (All Pentachloro-dibenzofurans)	NA	0.000035	0.001

(Rule 0400-12-0110, con	tinuea)				
	To	CDDs (All etrachloro-dibenzo-p- ioxins)	NA	0.000063	0.001
		CDFs (All Tetrachloro- ibenzofurans)	NA	0.000063	0.001
	2,	,4,5-Trichlorophenol	95-95-4	0.18	7.4
	2,	,4,6-Trichlorophenol	88-06-2	0.035	7.4
		,3,4,6- etrachlorophenol	58-90-2	0.030	7.4
formulations preserving generated at currently use previously chlorophenolic (except cross-contamina that have had waste code accordance with 12-0102(4)(f) cross-contamina that are otherw regulated as wastes (i.e., FC and where th does not resur	r come into a process process preservative and spent from wood processes plants that or have used formulations potentially ated wastes at the F032 deleted in a Rule 0400-or potentially ated wastes vise currently hazardous 134 or F035), are generator and or initiate horophenolic. This listing clude K001 at sludge from of wastewater preserving use creosote	cenaphthene	83-32-9	0.059	3.4
	A	nthracene	120-12-7	0.059	3.4
	В	enz(a)anthracene	56-55-3	0.059	3.4

Benzo(b)fluor-anthene (difficult to distinguish from benzo(k)fluor- anthene)	205-99-2	0.11	6.8
Benzo(k)fluor-anthene (difficult to distinguish from benzo(b)fluor- anthene)	207-08-9	0.11	6.8
Benzo(a)pyrene	50-32-8	0.061	3.4
Chrysene	218-01-9	0.059	3.4
Dibenz(a,h)-anthracene	53-70-3	0.055	8.2
2-4-Dimethyl phenol	105-67-9	0.036	14
Fluorene	86-73-7	0.059	3.4
Hexachloro-dibenzo-p-dioxins	NA	0.000063, or CMBST ¹¹	0.001, or CMBST ¹¹
Hexachloro- dibenzofurans	NA	0.000063, or CMBST ¹¹	0.001, or CMBST ¹¹
Indeno (1,2,3-c,d) pyrene	193-39-5	0.0055	3.4
Naphthalene	91-20-3	0.059	5.6
Pentachloro-dibenzo-p-dioxins	NA	0.000063, or CMBST ¹¹	0.001, or CMBST ¹¹
Pentachloro- dibenzofurans	NA	0.000035, or CMBST ¹¹	0.001, or CMBST ¹¹
Pentachlorophenol	87-86-5	0.089	7.4
Phenanthrene	85-01-8	0.059	5.6
Phenol	108-95-2	0.039	6.2
Pyrene	129-00-0	0.067	8.2
Tetrachloro-dibenzo-p-dioxins	NA	0.000063, or CMBST ¹¹	0.001, or CMBST ¹¹
Tetrachloro- dibenzofurans	NA	0.000063, or CMBST ¹¹	0.001, or CMBST ¹¹
2,3,4,6- Tetrachlorophenol	58-90-2	0.030	7.4
2,4,6-Trichlorophenol	88-06-2	0.035	7.4
Arsenic	7440-38-2	1.4	5.0 mg/l TCLP
Chromium (Total)	7440-47-3	2.77	0.60 mg/l TCLP

(Rule 0400-12-01-.10, continued)

F034	Wastewaters (except those that have not come into contact with process contaminants), process residuals, preservative drippage, and spent formulations from wood	Acenaphthene	83-32-9	0.059	3.4
	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.				
		Anthracene	120-12-7	0.059	3.4
		Benz(a)anthracene	56-55-3	0.059	3.4
		Benzo(b)fluor-anthene (difficult to distinguish from benzo(k)fluor- anthene)	205-99-2	0.11	6.8
		Benzo(k)fluor-anthene (difficult to distinguish from benzo(b)fluor- nthene)	207-08-9	0.11	6.8
		Benzo(a)pyrene	50-32-8	0.061	3.4
		Chrysene	218-01-9	0.059	3.4
		Dibenz(a,h)anthracene	53-70-3	0.055	8.2
		Fluorene	86-73-7	0.059	3.4
		Indeno (1,2,3-c,d) pyrene	193-39-5	0.0055	3.4
		Naphthalene	91-20-3	0.059	5.6
		Phenanthrene	85-01-8	0.059	5.6
		Pyrene	129-00-0	0.067	8.2
		Arsenic	7440-38-2	1.4	5.0 mg/l TCLP
		Chromium (Total)	7440-47-3	2.77	0.60 mg/l TCLP

F035	Wastewaters (except those	Arsenic	7440-38-2	1.4	5.0 mg/l TCLP
	that have not come into				515 111 3 1 15 2
	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.				
		Chromium (Total)	7440-47-3	2.77	0.60 mg/l TCLP

Petroleum refinery primary oil/water/solids separation	Acenaphthene	83-32-9	0.059	NA
sludge-Any sludge generated from the gravitational separation of oil/water/solids during the storage or treatment of process wastewaters and oily cooling wastewaters from petroleum refineries. Such sludges include, but are not limited to, those generated in: oil/water/solids separators; tanks and impoundments; ditches and other conveyances; sumps; and stormwater units receiving dry weather flow. Sludge generated in stormwater units that do not receive dry weather flow, sludges generated from non-contact once-through cooling waters segregated for treatment from other process or oily cooling waters, sludges generated in aggressive biological treatment units as defined in Rule 0400-12-01-02(4)(b)2(ii) (including sludges generated in one or more additional units after wastewaters have been treated in aggressive biological treatment units) and K051 wastes are not included in this listing.				
	Anthracene	120-12-7	0.059	3.4
	Benzene	71-43-2	0.14	10
	Benz(a)anthracene	56-55-3	0.059	3.4
	Benzo(a)pyrene	50-32-8	0.061	3.4
	bis(2-Ethylhexyl) phthalate	117-81-7	0.28	28
	Chrysene	218-01-9	0.059	3.4

Rule 0400-12-0110, c	onunuea)			
	Di-n-butyl phthalate	84-74-2	0.057	28
	Ethylbenzene	100-41-4	0.057	10
	Fluorene	86-73-7	0.059	NA
	Naphthalene	91-20-3	0.059	5.6
	Phenanthrene	85-01-8	0.059	5.6
	Phenol	108-95-2	0.039	6.2
	Pyrene	129-00-0	0.067	8.2
	Toluene	108-88-3	0.080	10
	Xylenes-mixed isomers (sum of o-, m-, and p-xylene concentrations)	1330-20-7	0.32	30
	Chromium (Total)	7440-47-3	2.77	0.60 mg/l TCLP
	Cyanides (Total) ⁷	57-12-5	1.2	590
	Lead	7439-92-1	0.69	NA
	Nickel	7440-02-0	NA	11 mg/l TCLP

<u> </u>	12-0110, continued)	D	74.40.0	0.44	40
F038	Petroleum refinery secondary (emulsified) oil/water/solids separation sludge and/or float generated from the physical and/or chemical separation of oil/water/solids in process wastewaters and oily cooling wastewaters from petroleum refineries. Such wastes include, but are not limited to, all sludges and floats generated in: induced air floatation (IAF) units, tanks and impoundments, and all sludges generated in DAF units. Sludges generated in stormwater units that do not receive dry weather flow, sludges generated from noncontact once-through cooling waters segregated for treatment from other process or oily cooling waters, sludges and floats generated in aggressive biological treatment units as defined in Rule 0400-12-0102(4)(b)2(ii) (including sludges and floats generated in one or more additional units after wastewaters have been treated in aggressive biological units) and F037, K048, and K051 are not included in this listing.	Benzene	71-43-2	0.14	10
		Benzo(a)pyrene	50-32-8	0.061	3.4
		bis(2-Ethylhexyl) phthalate	117-81-7	0.28	28
		Chrysene	218-01-9	0.059	3.4
		Di-n-butyl phthalate	84-74-2	0.057	28
		Ethylbenzene	100-41-4	0.057	10
		Fluorene	86-73-7	0.059	NA

percolated disposed of from the disposed of th		Phenanthrene Phenol Pyrene Toluene Xylenes-mixed isomers (sum of o-, m-, and p-xylene concentrations)	91-20-3 85-01-8 108-95-2 129-00-0 108-88-3 1330-20-7	0.059 0.059 0.039 0.067 0.080	5.6 5.6 6.2 8.2
percolated disposed of from the disposed of th		Phenol Pyrene Toluene Xylenes-mixed isomers (sum of o-, m-, and p-	108-95-2 129-00-0 108-88-3	0.039 0.067 0.080	6.2
percolated disposed of from the disposed of th		Pyrene Toluene Xylenes-mixed isomers (sum of o-, m-, and p-	129-00-0	0.067	8.2
percolated disposed of from the disposed of th		Toluene Xylenes-mixed isomers (sum of o-, m-, and p-	108-88-3	0.080	
percolated disposed of from the disposed of th		Xylenes-mixed isomers (sum of o-, m-, and p-			10
percolated disposed of from the disposed of th		(sum of o-, m-, and p-	1330-20-7	0.32	
percolated disposed of from the disposed of th					30
percolated disposed of from the disposed of th		Chromium (Total)	7440-47-3	2.77	0.60 mg/l TCLP
percolated disposed of from the disposed of th		Cyanides (Total) ⁷	57-12-5	1.2	590
percolated disposed of from the disposed of th		Lead	7439-92-1	0.69	NA
percolated disposed of from the disposed of th		Nickel	7440-02-0	NA	11 mg/l TCLP
other Ha: retains its Code(s): F	(liquids that have through land wastes) resulting disposal of more restricted waste as hazardous agraph (3) of this eachate resulting disposal of one or the following wastes and no exardous Wastes Hazardous Waste F020, F021, F022, 7, and/or F028.).	Acenaphthylene	208-96-8	0.059	3.4
	.,	Acenaphthene	83-32-9	0.059	3.4
	., 2.1.0.01 1 020.,1		67-64-1	0.28	160
	. , and a dearly.	Acetone			

Acetophenone	96-86-2	0.010	9.7
2-Acetylamino-fluorene	53-96-3	0.059	140
Acrolein	107-02-8	0.29	NA
Acrylonitrile	107-13-1	0.24	84
Aldrin	309-00-2	0.021	0.066
4-Aminobiphenyl	92-67-1	0.13	NA
Aniline	62-53-3	0.81	14
o-Anisidine (2- methoxyaniline)	90-04-0	0.010	0.66
Anthracene	120-12-7	0.059	3.4
Aramite	140-57-8	0.36	NA
alpha-BHC	319-84-6	0.00014	0.066
beta-BHC	319-85-7	0.00014	0.066
delta-BHC	319-86-8	0.023	0.066
gamma-BHC	58-89-9	0.0017	0.066
Benzene	71-43-2	0.14	10
Benz(a)anthracene	56-55-3	0.059	3.4
Benzo(b)fluor-anthene (difficult to distinguish from benzo(k)fluor- anthene)	205-99-2	0.11	6.8

Benzo(k)fluor-anthene (difficult to distinguish from benzo(b)fluor- anthene)	207-08-9	0.11	6.8
Benzo(g,h,i)-perylene	191-24-2	0.0055	1.8
Benzo(a)pyrene	50-32-8	0.061	3.4
Bromodichloro- methane	75-27-4	0.35	15
Methyl bromide (Bromomethane)	74-83-9	0.11	15
4-Bromophenyl phenyl ether	101-55-3	0.055	15
n-Butyl alcohol	71-36-3	5.6	2.6
Butyl benzyl phthalate	85-68-7	0.017	28
2-sec-Butyl-4,6- dinitrophenol (Dinoseb)	88-85-7	0.066	2.5
Carbon disulfide	75-15-0	3.8	NA
Carbon tetrachloride	56-23-5	0.057	6.0
Chlordane (alpha and gamma isomers)	57-74-9	0.0033	0.26
p-Chloroaniline	106-47-8	0.46	16
Chlorobenzene	108-90-7	0.057	6.0
Chlorobenzilate	510-15-6	0.10	NA
2-Chloro-1,3-butadiene	126-99-8	0.057	NA
Chlorodibro-methane	124-48-1	0.057	15

Oblassithan	75.00.0	0.07	0.0
Chloroethane	75-00-3	0.27	6.0
bis(2-Chloroethoxy)- methane	111-91-1	0.036	7.2
bis(2-Chloroethyl)ether	111-44-4	0.033	6.0
Chloroform	67-66-3	0.046	6.0
bis(2-Chloroisopropyl)- ether	39638-32-9	0.055	7.2
p-Chloro-m-cresol	59-50-7	0.018	14
Chloromethane (Methyl chloride)	74-87-3	0.19	30
2-Chloronaphthalene	91-58-7	0.055	5.6
2-Chlorophenol	95-57-8	0.044	5.7
3-Chloropropylene	107-05-1	0.036	30
Chrysene	218-01-9	0.059	3.4
p-Cresidine	120-71-8	0.010	0.66
o-Cresol	95-48-7	0.11	5.6
m-Cresol (difficult to distinguish from p-cresol)	108-39-4	0.77	5.6
p-Cresol (difficult to distinguish from m-cresol)	106-44-5	0.77	5.6
Cyclohexanone	108-94-1	0.36	NA

1,2-Dibromo-3- chloropropane	96-12-8	0.11	15
Ethylene dibromide (1,2-Dibromoethane)	106-93-4	0.028	15
Dibromomethane	74-95-3	0.11	15
2,4-D (2,4- Dichloropheno-xyacetic acid)	94-75-7	0.72	10
o,p'-DDD	53-19-0	0.023	0.087
p,p'-DDD	72-54-8	0.023	0.087
o,p'-DDE	3424-82-6	0.031	0.087
p,p'-DDE	72-55-9	0.031	0.087
o,p'-DDT	789-02-6	0.0039	0.087
p,p'-DDT	50-29-3	0.0039	0.087
Dibenz(a,h)-anthracene	53-70-3	0.055	8.2
Dibenz(a,e)pyrene	192-65-4	0.061	NA
m-Dichlorobenzene	541-73-1	0.036	6.0
o-Dichlorobenzene	95-50-1	0.088	6.0
p-Dichlorobenzene	106-46-7	0.090	6.0
Dichlorodifluoro- methane	75-71-8	0.23	7.2
1,1-Dichloroethane	75-34-3	0.059	6.0
1,2-Dichloroethane	107-06-2	0.21	6.0

75-35-4	0.025	6.0
156-60-5	0.054	30
120-83-2	0.044	14
87-65-0	0.044	14
78-87-5	0.85	18
10061-01-5	0.036	18
10061-02-6	0.036	18
60-57-1	0.017	0.13
84-66-2	0.20	28
95-68-1	0.010	0.66
105-67-9	0.036	14
131-11-3	0.047	28
84-74-2	0.057	28
100-25-4	0.32	2.3
534-52-1	0.28	160
51-28-5	0.12	160
121-14-2	0.32	140
606-20-2	0.55	28
	156-60-5 120-83-2 87-65-0 78-87-5 10061-01-5 10061-02-6 60-57-1 84-66-2 95-68-1 105-67-9 131-11-3 84-74-2 100-25-4 534-52-1 51-28-5	156-60-5 0.054 120-83-2 0.044 87-65-0 0.044 78-87-5 0.85 10061-01-5 0.036 60-57-1 0.017 84-66-2 0.20 95-68-1 0.010 105-67-9 0.036 131-11-3 0.047 84-74-2 0.057 100-25-4 0.32 534-52-1 0.28 51-28-5 0.12 121-14-2 0.32

Γ		1	T
Di-n-octyl phthalate	117-84-0	0.017	28
Di-n-propylnitrosamine	621-64-7	0.40	14
1,4-Dioxane	123-91-1	12.0	170
Diphenylamine (difficult to distinguish from diphenylnitro-samine)	122-39-4	0.92	NA
Diphenylnitro-samine (difficult to distinguish from diphenylamine)	86-30-6	0.92	NA
1,2-Diphenylhydrazine	122-66-7	0.087	NA
Disulfoton	298-04-4	0.017	6.2
Endosulfan I	939-98-8	0.023	0.066
Endosulfan II	33213-6-5	0.029	0.13
Endosulfan sulfate	1031-07-8	0.029	0.13
Endrin	72-20-8	0.0028	0.13
Endrin aldehyde	7421-93-4	0.025	0.13
Ethyl acetate	141-78-6	0.34	33
Ethyl cyanide (Propanenitrile)	107-12-0	0.24	360
Ethyl benzene	100-41-4	0.057	10
Ethyl ether	60-29-7	0.12	160

bis(2-Ethylhexyl) phthalate	117-81-7	0.28	28
Ethyl methacrylate	97-63-2	0.14	160
Ethylene oxide	75-21-8	0.12	NA
Famphur	52-85-7	0.017	15
Fluoranthene	206-44-0	0.068	3.4
Fluorene	86-73-7	0.059	3.4
Heptachlor	76-44-8	0.0012	0.066
Heptachlor epoxide	1024-57-3	0.016	0.066
1, 2, 3, 4, 6, 7, 8- Heptachlorodibenzo-p- dioxin (1, 2, 3, 4, 6, 7, 8-HpCDD)	35822-46-9	0.000035	0.0025
1, 2, 3, 4, 6, 7, 8- Heptachlorodibenzofur an (1, 2, 3, 4, 6, 7, 8- HpCDF)	67562-39-4	0.000035	0.0025
1, 2, 3, 4, 7, 8, 9- Heptachlorodibenzofur an (1, 2, 3, 4, 7, 8, 9- HpCDF)	55673-89-7	0.000035	0.0025
Hexachloro-benzene	118-74-1	0.055	10
Hexachloro-butadiene	87-68-3	0.055	5.6
Hexachloro- cyclopentadiene	77-47-4	0.057	2.4
HxCDDs (All Hexachloro-dibenzo-p- dioxins)	NA	0.000063	0.001
HxCDFs (All Hexachloro- dibenzofurans)	NA	0.000063	0.001
Hexachloroethane	67-72-1	0.055	30

Hexachloropropylene	1888-71-7	0.035	30
Indeno (1,2,3-c,d) pyrene	193-39-5	0.0055	3.4
lodomethane	74-88-4	0.19	65
Isobutyl alcohol	78-83-1	5.6	170
Isodrin	465-73-6	0.021	0.066
Isosafrole	120-58-1	0.081	2.6
Kepone	143-50-8	0.0011	0.13
Methacrylonitrile	126-98-7	0.24	84
Methanol	67-56-1	5.6	NA
Methapyrilene	91-80-5	0.081	1.5
Methoxychlor	72-43-5	0.25	0.18
3-Methylchol-anthrene	56-49-5	0.0055	15
4,4-Methylene bis(2- chloroaniline)	101-14-4	0.50	30
Methylene chloride	75-09-2	0.089	30
Methyl ethyl ketone	78-93-3	0.28	36
Methyl isobutyl ketone	108-10-1	0.14	33
Methyl methacrylate	80-62-6	0.14	160
Methyl methansulfonate	66-27-3	0.018	NA

Methyl parathion	298-00-0	0.014	4.6
Naphthalene	91-20-3	0.059	5.6
2-Naphthylamine	91-59-8	0.52	NA
p-Nitroaniline	100-01-6	0.028	28
Nitrobenzene	98-95-3	0.068	14
5-Nitro-o-toluidine	99-55-8	0.32	28
p-Nitrophenol	100-02-7	0.12	29
N-Nitrosodiethylamine	55-18-5	0.40	28
N-Nitro- sodimethylamine	62-75-9	0.40	NA
N-Nitroso-di-n- butylamine	924-16-3	0.40	17
N-Nitro-somethylethyl- amine	10595-95-6	0.40	2.3
N-Nitrosomorpholine	59-89-2	0.40	2.3
N-Nitrosopiperidine	100-75-4	0.013	35
N-Nitrosopyrrolidine	930-55-2	0.013	35
1, 2, 3, 4, 6, 7, 8, 9- Octachlorodibenzo-p- dioxin (OCDD)	3268-87-9	0.000063	0.0025
1, 2, 3, 4, 6, 7, 8, 9- Octachlorodibenzofura n(OCDF)	39001-02-0	0.000063	0.005
Parathion	56-38-2	0.014	4.6

Total PCBs	1336-36-3	0.10	10
(sum of all PCB	1330-30-3	0.10	10
isomers, or all Aroclors)			
Pentachloro-benzene	608-93-5	0.055	10
T entacilioro-benzene	000-33-3	0.000	10
PeCDDs (All	NA	0.000063	0.001
Pentachloro-dibenzo-p-dioxins)			
uloxii is)			
PeCDFs (All	NA	0.000035	0.001
Pentachloro-			
dibenzofurans)			
Pentachloro-	82-68-8	0.055	4.8
nitrobenzene			
Dontochlorophonol	87-86-5	0.089	7.4
Pentachlorophenol	07-00-3	0.009	7.4
Phenacetin	62-44-2	0.081	16
Phenanthrene	85-01-8	0.059	5.6
Phenol	108-95-2	0.039	6.2
Filenoi	100-93-2	0.039	0.2
1, 3-Phenylenediamine	108-45-2	0.010	0.66
Phorate	298-02-2	0.021	4.6
Phthalic anhydride	85-44-9	0.055	NA
T Halano allifyariae	00 44 0	0.000	10/
			, _
Pronamide	23950-58-5	0.093	1.5
Pyrene	129-00-0	0.067	8.2
Pyridine	110-86-1	0.014	16
			_
Cofrolo	94-59-7	0.004	00
Safrole	94-59-7	0.081	22
Silvex (2,4,5-TP)	93-72-1	0.72	7.9
2,4,5-T	93-76-5	0.72	7.9

1,2,4,5-Tetrachloro-	95-94-3	0.055	14
benzene			
TCDDs (All Tetrachlorodibenzo-p-dioxins)	NA	0.000063	0.001
TCDFs (All Tetrachlorodibenzo-furans)	NA	0.000063	0.001
1,1,1,2- Tetrachloroethane	630-20-6	0.057	6.0
1,1,2,2- Tetrachloroethane	79-34-6	0.057	6.0
Tetrachloroethylene	127-18-4	0.056	6.0
2,3,4,6- Tetrachlorophenol	58-90-2	0.030	7.4
Toluene	108-88-3	0.080	10
Toxaphene	8001-35-2	0.0095	2.6
Bromoform (Tribromomethane)	75-25-2	0.63	15
1,2,4-Trichlorobenzene	120-82-1	0.055	19
1,1,1-Trichloroethane	71-55-6	0.054	6.0
1,1,2-Trichloroethane	79-00-5	0.054	6.0
Trichloroethylene	79-01-6	0.054	6.0
Trichloromono- fluoromethane	75-69-4	0.020	30
2,4,5-Trichlorophenol	95-95-4	0.18	7.4
2,4,6-Trichlorophenol	88-06-2	0.035	7.4

1,2,3-Trichloropropane	96-18-4	0.85	30
1,1,2-Trichloro-1,2,2- trifluoroethane	76-13-1	0.057	30
tris(2,3-Dibromopropyl) phosphate	126-72-7	0.11	NA
Vinyl chloride	75-01-4	0.27	6.0
Xylenes-mixed isomers (sum of o-, m-, and p-xylene concentrations)	1330-20-7	0.32	30
Antimony	7440-36-0	1.9	1.15 mg/l TCLP
Arsenic	7440-38-2	1.4	5.0 mg/l TCLP
Barium	7440-39-3	1.2	21 mg/l TCLP
Beryllium	7440-41-7	0.82	NA
Cadmium	7440-43-9	0.69	0.11 mg/l TCLP
Chromium (Total)	7440-47-3	2.77	0.60 mg/l TCLP
Cyanides (Total) ⁷	57-12-5	1.2	590
Cyanides (Amenable) ⁷	57-12-5	0.86	NA
Fluoride	16964-48-8	35	NA
Lead	7439-92-1	0.69	0.75 mg/l TCLP
Mercury	7439-97-6	0.15	0.025 mg/l TCLP
Nickel	7440-02-0	3.98	11 mg/l TCLP

Rule 0400)-12-0110, continued)				ı
		Selenium	7782-49-2	0.82	5.7 mg/l TCLP
		Silver	7440-22-4	0.43	0.14 mg/l TCLP
		Sulfide	8496-25-8	14	NA
		Thallium	7440-28-0	1.4	NA
		Vanadium	7440-62-2	4.3	NA
K001	Bottom sediment sludge from the treatment of wastewaters from wood preserving processes that use creosote and/or pentachlorophenol.	Naphthalene	91-20-3	0.059	5.6
	апалог регкастногориеног.	Pentachlorophenol	87-86-5	0.089	7.4
		Phenanthrene	85-01-8	0.059	5.6
		Pyrene	129-00-0	0.067	8.2
		Toluene	108-88-3	0.080	10
		Xylenes-mixed isomers (sum of o-, m-, and p- xylene concentrations)	1330-20-7	0.32	30
		Lead	7439-92-1	0.69	0.75 mg/l TCLP
K002	Wastewater treatment sludge from the production of chrome yellow and orange pigments.	Chromium (Total)	7440-47-3	2.77	0.60 mg/l TCLP
	p.g.monto.	Lead	7439-92-1	0.69	0.75 mg/l TCLP
K003	Wastewater treatment sludge from the production of molybdate orange pigments.	Chromium (Total)	7440-47-3	2.77	0.60 mg/l TCLP
		Lead	7439-92-1	0.69	0.75 mg/l TCLP
K004	Wastewater treatment sludge from the production of zinc yellow pigments.	Chromium (Total)	7440-47-3	2.77	0.60 mg/l TCLP

		Lead	7439-92-1	0.69	0.75 mg/l TCLF
K005 Wastewater treatment sludge from the production of chrome green pigments.	Chromium (Total)	7440-47-3	2.77	0.60 mg/l TCL	
	onomo groon pigmonto.	Lead	7439-92-1	0.69	0.75 mg/l TCL
		Cyanides (Total) ⁷	57-12-5	1.2	590
K006	Wastewater treatment sludge from the production of chrome oxide green pigments (anhydrous).	Chromium (Total)	7440-47-3	2.77	0.60 mg/l TCL
	pigionic (dimydiodo).	Lead	7439-92-1	0.69	0.75 mg/l TCL
	Wastewater treatment sludge from the production of chrome oxide green	Chromium (Total)	7440-47-3	2.77	0.60 mg/l TCL
	pigments (hydrated).	Lead	7439-92-1	0.69	NA
K007	Wastewater treatment sludge from the production of iron blue pigments.	Chromium (Total)	7440-47-3	2.77	0.60 mg/l TCL
		Lead	7439-92-1	0.69	0.75 mg/l TCL
		Cyanides (Total) ⁷	57-12-5	1.2	590
K008	Oven residue from the production of chrome oxide green pigments.	Chromium (Total)	7440-47-3	2.77	0.60 mg/l TCL
	groom pigmonto.	Lead	7439-92-1	0.69	0.75 mg/l TCL
K009	Distillation bottoms from the production of acetaldehyde from ethylene.	Chloroform	67-66-3	0.046	6.0
K010	Distillation side cuts from the production of acetaldehyde from ethylene.	Chloroform	67-66-3	0.046	6.0
K011	Bottom stream from the wastewater stripper in the production of acrylonitrile.	Acetonitrile	75-05-8	5.6	38
p. 2 3 4 6 1	,	Acrylonitrile	107-13-1	0.24	84

·12-0110, continued)				
	Acrylamide	79-06-1	19	23
	Benzene	71-43-2	0.14	10
	Cyanide (Total)	57-12-5	1.2	590
Bottom stream from the acetonitrile column in the	Acetonitrile	75-05-8	5.6	38
production of acrylomitile.	Acrylonitrile	107-13-1	0.24	84
	Acrylamide	79-06-1	19	23
	Benzene	71-43-2	0.14	10
	Cyanide (Total)	57-12-5	1.2	590
Bottoms from the acetonitrile purification column in the	Acetonitrile	75-05-8	5.6	38
production of adjustmine.	Acrylonitrile	107-13-1	0.24	84
	Acrylamide	79-06-1	19	23
	Benzene	71-43-2	0.14	10
	Cyanide (Total)	57-12-5	1.2	590
Still bottoms from the distillation of benzyl chloride.	Anthracene	120-12-7	0.059	3.4
	Benzal chloride	98-87-3	0.055	6.0
	Benzo(b)fluor-anthene (difficult to distinguish from benzo(k)fluor- anthene)	205-99-2	0.11	6.8
	Bottom stream from the acetonitrile column in the production of acrylonitrile. Bottoms from the acetonitrile purification column in the production of acrylonitrile. Still bottoms from the	Acrylamide Benzene	Acrylamide 79-06-1	Acrylamide 79-06-1 19

(Rule 0400	-12-0110, continued)				
		Benzo(k)fluor-anthene (difficult to distinguish from benzo(b)fluor- anthene)	207-08-9	0.11	6.8
		Phenanthrene	85-01-8	0.059	5.6
		Toluene	108-88-3	0.080	10
		Chromium (Total)	7440-47-3	2.77	0.60 mg/l TCLP
		Nickel	7440-02-0	3.98	11 mg/l TCLP
K016	Heavy ends or distillation residues from the production of carbon tetrachloride.	Hexachlorobenz-ene	118-74-1	0.055	10
	of carbon tetraomonae.	Hexachloro-butadiene	87-68-3	0.055	5.6
		Hexachloro- cyclopentadiene	77-47-4	0.057	2.4
		Hexachloroethane	67-72-1	0.055	30
		Tetrachloroethy-lene	127-18-4	0.056	6.0
K017	Heavy ends (still bottoms) from the purification column in the production of epichlorohydrin.	bis(2-Chloroethyl)ether	111-44-4	0.033	6.0
		1,2-Dichloropropane	78-87-5	0.85	18
		1,2,3-Trichloropropane	96-18-4	0.85	30
K018	Heavy ends from the fractionation column in ethyl chloride production.	Chloroethane	75-00-3	0.27	6.0
	S. Morido production.	Chloromethane	74-87-3	0.19	NA
		1,1-Dichloroethane	75-34-3	0.059	6.0
		1,2-Dichloroethane	107-06-2	0.21	6.0
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Kule 0400-	·12-0110, continued)				
		Hexachloroben-zene	118-74-1	0.055	10
		Hexachloro-butadiene	87-68-3	0.055	5.6
		Hexachloroethane	67-72-1	0.055	30
		Pentachloroeth-ane	76-01-7	NA	6.0
		1,1,1-Trichloroethane	71-55-6	0.054	6.0
K019	Heavy ends from the distillation of ethylene dichloride in ethylene dichloride production.	bis(2-Chloroethyl)ether	111-44-4	0.033	6.0
	distribute production.	Chlorobenzene	108-90-7	0.057	6.0
		Chloroform	67-66-3	0.046	6.0
		p-Dichlorobenzene	106-46-7	0.090	NA
		1,2-Dichloroethane	107-06-2	0.21	6.0
		Fluorene	86-73-7	0.059	NA
		Hexachloroethane	67-72-1	0.055	30
		Naphthalene	91-20-3	0.059	5.6
		Phenanthrene	85-01-8	0.059	5.6
		1,2,4,5-Tetrachloroben- zene	95-94-3	0.055	NA
		Tetrachloroethy-lene	127-18-4	0.056	6.0
		1,2,4-Trichlorobenzene	120-82-1	0.055	19
		1,1,1-Trichloroethane	71-55-6	0.054	6.0

K020	Heavy ends from the distillation of vinyl chloride in vinyl chloride monomer production.	1,2-Dichloroethane	107-06-2	0.21	6.0
		1,1,2,2- Tetrachloroethane	79-34-6	0.057	6.0
		Tetrachloroethy-lene	127-18-4	0.056	6.0
K021	Aqueous spent antimony catalyst waste from fluoromethanes production.	Carbon tetrachloride	56-23-5	0.057	6.0
	·	Chloroform	67-66-3	0.046	6.0
		Antimony	7440-36-0	1.9	1.15 mg/l TCLP
K022	Distillation bottom tars from the production of phenol/acetone from cumene.	Toluene	108-88-3	0.080	10
		Acetophenone	96-86-2	0.010	9.7
		Diphenylamine (difficult to distinguish from diphenylnitro-samine)	122-39-4	0.92	13
		Diphenylnitro-samine (difficult to distinguish from diphenylamine)	86-30-6	0.92	13
		Phenol	108-95-2	0.039	6.2
		Chromium (Total)	7440-47-3	2.77	0.60 mg/l TCLP
		Nickel	7440-02-0	3.98	11 mg/l TCLP
K023	Distillation light ends from the production of phthalic anhydride from naphthalene.	Phthalic anhydride (measured as Phthalic acid or Terephthalic acid)	100-21-0	0.055	28

(Nule 0400-	12-0110, continued)				
		Phthalic anhydride (measured as Phthalic acid or Terephthalic acid)	85-44-9	0.055	28
K024	K024 Distillation bottoms from the production of phthalic anhydride from naphthalene.	Phthalic anhydride (measured as Phthalic acid or Terephthalic acid)	100-21-0	0.055	28
		Phthalic anhydride (measured as Phthalic acid or Terephthalic acid)	85-44-9	0.055	28
K025	Distillation bottoms from the production of nitrobenzene by the nitration of benzene.	NA	NA	LLEXT fb SSTRP fb CARBN; or CMBST	CMBST
K026	Stripping still tails from the production of methyl ethyl pyridines.	NA	NA	CMBST	CMBST
K027	Centrifuge and distillation residues from toluene diisocyanate production.	NA	NA	CARBN; or CMBST	CMBST
K028	Spent catalyst from the hydrochlorinator reactor in the production of 1,1,1-trichloroethane.	1,1-Dichloroethane	75-34-3	0.059	6.0
		trans-1,2- Dichloroethylene	156-60-5	0.054	30
		Hexachlorobuta-diene	87-68-3	0.055	5.6
		Hexachloroethane	67-72-1	0.055	30
		Pentachloroeth-ane	76-01-7	NA	6.0
		1,1,1,2- Tetrachloroethane	630-20-6	0.057	6.0

(Kule 0400-	-12-0110, continued)				
		1,1,2,2- Tetrachloroethane	79-34-6	0.057	6.0
		Tetrachloroethy-lene	127-18-4	0.056	6.0
		1,1,1-Trichloroethane	71-55-6	0.054	6.0
		1,1,2-Trichloroethane	79-00-5	0.054	6.0
		Cadmium	7440-43-9	0.69	NA
		Chromium (Total)	7440-47-3	2.77	0.60 mg/l TCLP
		Lead	7439-92-1	0.69	0.75 mg/l TCLP
		Nickel	7440-02-0	3.98	11 mg/l TCLP
K029	Waste from the product steam stripper in the production of 1,1,1-trichloroethane.	Chloroform	67-66-3	0.046	6.0
		1,2-Dichloroethane	107-06-2	0.21	6.0
		1,1-Dichloroethylene	75-35-4	0.025	6.0
		1,1,1-Trichloroethane	71-55-6	0.054	6.0
		Vinyl chloride	75-01-4	0.27	6.0
K030	Column bodies or heavy ends from the combined production of trichloroethylene and perchloroethylene.	o-Dichlorobenzene	95-50-1	0.088	NA
	, , , , , , , , , , , , , , , , , , ,	p-Dichlorobenzene	106-46-7	0.090	NA
		Hexachlorobutadiene	87-68-3	0.055	5.6
		Hexachloroethane	67-72-1	0.055	30
		Hexachloropropy-lene	1888-71-7	NA	30

Kule 0400	-12-0110, continued)				
		Pentachloroben-zene	608-93-5	NA	10
		Pentachloroeth-ane	76-01-7	NA	6.0
		1,2,4,5- Tetrachlorobenz-ene	95-94-3	0.055	14
		Tetrachloroethy-lene	127-18-4	0.056	6.0
		1,2,4-Trichlorobenzene	120-82-1	0.055	19
K031	By-product salts generated in the production of MSMA and cacodylic acid.	Arsenic	7440-38-2	1.4	5.0 mg/l TCLP
K032	Wastewater treatment sludge from the production of chlordane.	Hexachlorocyclo- pentadiene	77-47-4	0.057	2.4
	onordane.	Chlordane (alpha and gamma isomers)	57-74-9	0.0033	0.26
		Heptachlor	76-44-8	0.0012	0.066
		Heptachlor epoxide	1024-57-3	0.016	0.066
K033	Wastewater and scrub water from the chlorination of cyclopentadiene in the production of chlordane.	Hexachlorocyclo- pentadiene	77-47-4	0.057	2.4
K034	Filter solids from the filtration of hexachlorocyclopentadiene in the production of chlordane.	Hexachlorocyclo- pentadiene	77-47-4	0.057	2.4
K035	Wastewater treatment sludges generated in the production of creosote.	Acenaphthene	83-32-9	NA	3.4
	production of decode.	Anthracene	120-12-7	NA	3.4
		Benz(a)anthra-cene	56-55-3	0.059	3.4
		Benzo(a)pyrene	50-32-8	0.061	3.4

(Nule 0400	-12-0110, continued)				
		Chrysene	218-01-9	0.059	3.4
		o-Cresol	95-48-7	0.11	5.6
		m-Cresol (difficult to distinguish from p-cresol)	108-39-4	0.77	5.6
		p-Cresol (difficult to distinguish from m-cresol)	106-44-5	0.77	5.6
		Dibenz(a,h)-anthracene	53-70-3	NA	8.2
		Fluoranthene	206-44-0	0.068	3.4
		Fluorene	86-73-7	NA	3.4
		Indeno(1,2,3-cd)pyrene	193-39-5	NA	3.4
		Naphthalene	91-20-3	0.059	5.6
		Phenanthrene	85-01-8	0.059	5.6
		Phenol	108-95-2	0.039	6.2
		Pyrene	129-00-0	0.067	8.2
K036	Still bottoms from toluene reclamation distillation in the production of disulfoton.	Disulfoton	298-04-4	0.017	6.2
K037	Wastewater treatment sludges from the production of disulfoton.	Disulfoton	298-04-4	0.017	6.2
	or albumotori.	Toluene	108-88-3	0.080	10
K038	Wastewater from the washing and stripping of phorate production.	Phorate	298-02-2	0.021	4.6

K039	Filter cake from the filtration of diethylphosphorodithioic acid in the production of phorate.	NA	NA	CARBN; or CMBST	CMBST
K040	Wastewater treatment sludge from the production of phorate.	Phorate	298-02-2	0.021	4.6
K041	Wastewater treatment sludge from the production of toxaphene.	Toxaphene	8001-35-2	0.0095	2.6
K042	Heavy ends or distillation residues from the distillation of tetrachlorobenzene in the production of 2,4,5-T.	o-Dichlorobenzene	95-50-1	0.088	6.0
	, , , , , , , , , , , , , , , , , , ,	p-Dichlorobenzene	106-46-7	0.090	6.0
		Pentachlorobenzene	608-93-5	0.055	10
		1,2,4,5-Tetrachloroben- zene	95-94-3	0.055	14
		1,2,4-Trichlorobenzene	120-82-1	0.055	19
K043	2,6-Dichlorophenol waste from the production of 2,4-D.	2,4-Dichlorophenol	120-83-2	0.044	14
		2,6-Dichlorophenol	187-65-0	0.044	14
		2,4,5-Trichlorophenol	95-95-4	0.18	7.4
		2,4,6-Trichlorophenol	88-06-2	0.035	7.4
		2,3,4,6-Tetrachlorophe- nol	58-90-2	0.030	7.4
		Pentachlorophe-nol	87-86-5	0.089	7.4
		Tetrachloroethy-lene	127-18-4	0.056	6.0
		HxCDDs (All Hexachlorodibenzo-p- dioxins)	NA	0.000063	0.001

Rule 0400	-12-0110, continued)				
		HxCDFs (All Hexachlorodibenzofura ns)	NA	0.000063	0.001
		PeCDDs (All Pentachlorodibenzo-p- dioxins)	NA	0.000063	0.001
		PeCDFs (All Pentachlorodibenzofura ns)	NA	0.000035	0.001
		TCDDs (All Tetrachlorodibenzo-p- dioxins)	NA	0.000063	0.001
		TCDFs (All Tetrachlorodibenzo- furans)	NA	0.000063	0.001
K044	Wastewater treatment sludges from the manufacturing and processing of explosives.	NA	NA	DEACT	DEACT
K045	Spent carbon from the treatment of wastewater containing explosives.	NA	NA	DEACT	DEACT
K046	Wastewater treatment sludges from the manufacturing, formulation and loading of lead-based initiating compounds.	Lead	7439-92-1	0.69	0.75 mg/l TCLP
K047	Pink/red water from TNT operations	NA	NA	DEACT	DEACT
K048	Dissolved air flotation (DAF) float from the petroleum refining industry.	Benzene	71-43-2	0.14	10
	Tommig measury.	Benzo(a)pyrene	50-32-8	0.061	3.4
		bis(2-Ethylhexyl) phthalate	117-81-7	0.28	28
		Chrysene	218-01-9	0.059	3.4
		Di-n-butyl phthalate	84-74-2	0.057	28
		Ethylbenzene	100-41-4	0.057	10

(Rule 0400	-12-0110, continued)				
	,	Fluorene	86-73-7	0.059	NA
		Naphthalene	91-20-3	0.059	5.6
		Phenanthrene	85-01-8	0.059	5.6
		Phenol	108-95-2	0.039	6.2
		Pyrene	129-00-0	0.067	8.2
		Toluene	108-88-33	0.080	10
		Xylenes-mixed isomers (sum of o-, m-, and p- xylene concentrations)	1330-20-7	0.32	30
		Chromium (Total)	7440-47-3	2.77	0.60 mg/l TCLP
		Cyanides (Total) ⁷	57-12-5	1.2	590
		Lead	7439-92-1	0.69	NA
		Nickel	7440-02-0	NA	11 mg/l TCLP
K049	Slop oil emulsion solids from the petroleum refining	Anthracene	120-12-7	0.059	3.4
	industry.	Benzene	71-43-2	0.14	10
		Benzo(a)pyrene	50-32-8	0.061	3.4
		bis(2-Ethylhexyl) phthalate	117-81-7	0.28	28
		Carbon disulfide	75-15-0	3.8	NA
		Chrysene	218-01-9	0.059	3.4
		2,4-Dimethylphenol	105-67-9	0.036	NA
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uie 0400-	-12-0110, continued)				
		Ethylbenzene	100-41-4	0.057	10
		Naphthalene	91-20-3	0.059	5.6
		Phenanthrene	85-01-8	0.059	5.6
		Phenol	108-95-2	0.039	6.2
		Pyrene	129-00-0	0.067	8.2
		Toluene	108-88-3	0.080	10
		Xylenes-mixed isomers (sum of o-, m-, and p-xylene concentrations)	1330-20-7	0.32	30
		Cyanides (Total) ⁷	57-12-5	1.2	590
		Chromium (Total)	7440-47-3	2.77	0.60 mg/l TCLP
		Lead	7439-92-1	0.69	NA
		Nickel	7440-02-0	NA	11 mg/l TCLP
K050	Heat exchanger bundle cleaning sludge from the	Benzo(a)pyrene	50-32-8	0.061	3.4
	petroleum refining industry.	Phenol	108-95-2	0.039	6.2
		Cyanides (Total) ⁷	57-12-5	1.2	590
		Chromium (Total)	7440-47-3	2.77	0.60 mg/l TCLP
	Lead	7439-92-1	0.69	NA	
		Nickel	7440-02-0	NA	11 mg/l TCLP
K051	API separator sludge from the petroleum refining	Acenaphthene	83-32-9	0.059	NA

Anthracene	120-12-7	0.059	3.4
Anunacene	120-12-7	0.059	3.4
Benz(a)anthra-cene	56-55-3	0.059	3.4
Benzene	71-43-2	0.14	10
Benzo(a)pyrene	50-32-8	0.061	3.4
bis(2-Ethylhexyl) phthalate	117-81-7	0.28	28
Chrysene	218-01-9	0.059	3.4
Di-n-butyl phthalate	105-67-9	0.057	28
Ethylbenzene	100-41-4	0.057	10
Fluorene	86-73-7	0.059	NA
Naphthalene	91-20-3	0.059	5.6
Phenanthrene	85-01-8	0.059	5.6
Phenol	108-95-2	0.039	6.2
Pyrene	129-00-0	0.067	8.2
Toluene	108-88-3	0.08	10
Xylenes-mixed isomers (sum of o-, m-, and p-xylene concentrations)	1330-20-7	0.32	30
Cyanides (Total) ⁷	57-12-5	1.2	590
Chromium (Total)	7440-47-3	2.77	0.60 mg/l TCLP
Lead	7439-92-1	0.69	NA

		Nickel	7440-02-0	NA	11 mg/l TCLP
K052	Tank bottoms (leaded) from the petroleum refining	Benzene	71-43-2	0.14	10
	industry.	Benzo(a)pyrene	50-32-8	0.061	3.4
		o-Cresol	95-48-7	0.11	5.6
		m-Cresol (difficult to distinguish from p-cresol)	108-39-4	0.77	5.6
		p-Cresol (difficult to distinguish from m-cresol)	106-44-5	0.77	5.6
		2,4-Dimethylphenol	105-67-9	0.036	NA
		Ethylbenzene	100-41-4	0.057	10
		Naphthalene	91-20-3	0.059	5.6
		Phenanthrene	85-01-8	0.059	5.6
		Phenol	108-95-2	0.039	6.2
		Toluene	108-88-3	0.08	10
		Xylenes-mixed isomers (sum of o-, m-, and p-xylene concentrations)	1330-20-7	0.32	30
		Chromium (Total)	7440-47-3	2.77	0.60 mg/l TCLI
		Cyanides (Total) ⁷	57-12-5	1.2	590
		Lead	7439-92-1	0.69	NA
		Nickel	7440-02-0	NA	11 mg/l TCLF

K060	Ammonia still lime sludge from coking operations.	Benzene	71-43-2	0.14	10
		Benzo(a)pyrene	50-32-8	0.061	3.4
		Naphthalene	91-20-3	0.059	5.6
		Phenol	108-95-2	0.039	6.2
		Cyanides (Total) ⁷	57-12-5	1.2	590
K061	Emission control dust/sludge from the primary production	Antimony	7440-36-0	NA	1.15 mg/l TCLP
	of steel in electric furnaces.	Arsenic	7440-38-2	NA	5.0 mg/l TCLP
		Barium	7440-39-3	NA	21 mg/l TCLP
		Beryllium	7440-41-7	NA	1.22 mg/l TCLP
		Cadmium	7440-43-9	0.69	0.11 mg/l TCLP
		Chromium (Total)	7440-47-3	2.77	0.60 mg/l TCLP
		Lead	7439-92-1	0.69	0.75 mg/l TCLP
		Mercury	7439-97-6	NA	0.025 mg/l TCLP
		Nickel	7440-02-0	3.98	11 mg/l TCLP
		Selenium	7782-49-2	NA	5.7 mg/I TCLP
		Silver	7440-22-4	NA	0.14 mg/l TCLP
		Thallium	7440-28-0	NA	0.20 mg/l TCLP
		Zinc	7440-66-6	NA	4.3 mg/l TCLP

12-0110, continued)		T =		T
Spent pickle liquor generated by steel finishing operations of facilities within the iron and steel industry (SIC Codes 331 and 332).	Chromium (Total)			0.60 mg/l TCLP
	Lead	7439-92-1	0.69	0.75 mg/l TCLP
	Nickel	7440-02-0	3.98	NA
Emission control dust/sludge from secondary lead smelting Calcium Sulfate (Low Lead) Subcategory	Cadmium	7440-43-9	0.69	0.11 mg/l TCLP
	Lead	7439-92-1	0.69	0.75 mg/l TCLP
Emission control dust/sludge from secondary lead smelting Non-Calcium Sulfate (High Lead) Subcategory	NA	NA	NA	RLEAD
K071 (Brine purification muds from the mercury cell process in chlorine production, where separately prepurified brine is not used) nonwastewaters that are residues from RMERC.	Mercury	7439-97-6	NA	0.20 mg/l TCLP
K071 (Brine purification muds from the mercury cell process in chlorine production, where separately prepurified brine is not used.) nonwastewaters that are not residues from RMERC.	Mercury	7439-97-6	NA	0.025 mg/l TCLP
All K071 wastewaters.	Mercury	7439-97-6	0.15	NA
Chlorinated hydrocarbon waste from the purification step of the diaphragm cell process using graphite anodes in chlorine production.	Carbon tetrachloride	56-23-5	0.057	6.0
	Chloroform	67-66-3	0.046	6.0
	Hexachloroethane	67-72-1	0.055	30
	Spent pickle liquor generated by steel finishing operations of facilities within the iron and steel industry (SIC Codes 331 and 332). Emission control dust/sludge from secondary lead smelting Calcium Sulfate (Low Lead) Subcategory Emission control dust/sludge from secondary lead smelting Non-Calcium Sulfate (High Lead) Subcategory K071 (Brine purification muds from the mercury cell process in chlorine production, where separately prepurified brine is not used) nonwastewaters that are residues from RMERC. K071 (Brine purification muds from the mercury cell process in chlorine production, where separately prepurified brine is not used.) nonwastewaters that are residues from RMERC. K071 (Brine purification muds from the mercury cell process in chlorine production, where separately prepurified brine is not used.) nonwastewaters that are not residues from RMERC.	Spent pickle liquor generated by steel finishing operations of facilities within the iron and steel industry (SIC Codes 331 and 332). Emission control dust/sludge from secondary lead smelting Calcium Sulfate (Low Lead) Subcategory Emission control dust/sludge from secondary lead smelting Non-Calcium Sulfate (High Lead) Subcategory K071 (Brine purification muds from the mercury cell process in chlorine production, where separately prepurified brine is not used) nonwastewaters that are residues from RMERC. K071 (Brine purification muds from the mercury cell process in chlorine production, where separately prepurified brine is not used) nonwastewaters that are residues from RMERC. K071 (Brine purification muds from the mercury cell process in chlorine production, where separately prepurified brine is not used.) nonwastewaters that are not residues from RMERC. All K071 wastewaters. Mercury Chlorinated hydrocarbon waste from the purification step of the diaphragm cell process using graphite anodes in chlorine production. Chloroform	Spent pickle liquor generated by steel finishing operations of facilities within the iron and steel industry (SIC Codes 331 and 332).	Spent pickle liquor generated by steel finishing operations of facilities within the iron and steel industry (SIC Codes 331 and 332). Lead

		Tetrachloroethy-lene	127-18-4	0.056	6.0
		1,1,1-Trichloroethane	71-55-6	0.054	6.0
K083	Distillation bottoms from aniline production.	Aniline	62-53-3	0.81	14
		Benzene	71-43-2	0.14	10
		Cyclohexanone	108-94-1	0.36	NA
		Diphenylamine (difficult to distinguish from diphenylnitro-samine)	122-39-4	0.92	13
		Diphenylnitro-samine (difficult to distinguish from diphenylamine)	86-30-6	0.92	13
		Nitrobenzene	98-95-3	0.068	14
		Phenol	108-95-2	0.039	6.2
		Nickel	7440-02-0	3.98	11 mg/l TCL
K084	Wastewater treatment sludges generated during the production of veterinary pharmaceuticals from arsenic or organo-arsenic compounds.	Arsenic	7440-38-2	1.4	5.0 mg/l TCL
K085	Distillation or fractionation column bottoms from the production of chlorobenzenes.	Benzene	71-43-2	0.14	10
	GIIOTODETIZETIES.	Chlorobenzene	108-90-7	0.057	6.0
		m-Dichlorobenzene	541-73-1	0.036	6.0
		o-Dichlorobenzene	95-50-1	0.088	6.0

Ruie 0400-	·12-0110, continued)				
		p-Dichlorobenzene	106-46-7	0.090	6.0
		Hexachloroben-zene	118-74-1	0.055	10
		Total PCBs (sum of all PCB isomers, or all Aroclors)	1336-36-3	0.10	10
		Pentachloroben-zene	608-93-5	0.055	10
		1,2,4,5-Tetrachloroben- zene	95-94-3	0.055	14
		1,2,4-Trichlorobenzene	120-82-1	0.055	19
K086	K086 Solvent wastes 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.	Acetone	67-64-1	0.28	160
		Acetophenone	96-86-2	0.010	9.7
		bis(2-Ethylhexyl) phthalate	117-81-7	0.28	28
		n-Butyl alcohol	71-36-3	5.6	2.6
		Butylbenzyl phthalate	85-68-7	0.017	28
		Cyclohexanone	108-94-1	0.36	NA
		o-Dichlorobenzene	95-50-1	0.088	6.0
		Diethyl phthalate	84-66-2	0.20	28
		Dimethyl phthalate	131-11-3	0.047	28
		Di-n-butyl phthalate	84-74-2	0.057	28

(IXUIC 0400-	·12-0110, continued)				
		Di-n-octyl phthalate	117-84-0	0.017	28
		Ethyl acetate	141-78-6	0.34	33
		Ethylbenzene	100-41-4	0.057	10
		Methanol	67-56-1	5.6	NA
		Methyl ethyl ketone	78-93-3	0.28	36
		Methyl isobutyl ketone	108-10-1	0.14	33
		Methylene chloride	75-09-2	0.089	30
		Naphthalene	91-20-3	0.059	5.6
		Nitrobenzene	98-95-3	0.068	14
		Toluene	108-88-3	0.080	10
		1,1,1-Trichloroethane	71-55-6	0.054	6.0
		Trichloroethylene	79-01-6	0.054	6.0
		Xylenes-mixed isomers (sum of o-, m-, and p- xylene concentrations)	1330-20-7	0.32	30
		Chromium (Total)	7440-47-3	2.77	0.60 mg/l TCLP
		Cyanides (Total) ⁷	57-12-5	1.2	590
		Lead	7439-92-1	0.69	0.75 mg/l TCLP
K087	Decanter tank tar sludge from coking operations.	Acenaphthylene	208-96-8	0.059	3.4
		Benzene	71-43-2	0.14	10
	l				

(Kule 0400-	-12-0110, continued)				
		Chrysene	218-01-9	0.059	3.4
		Fluoranthene	206-44-0	0.068	3.4
		Indeno(1,2,3-cd)pyrene	193-39-5	0.0055	3.4
		Naphthalene	91-20-3	0.059	5.6
		Phenanthrene	85-01-8	0.059	5.6
		Toluene	108-88-3	0.080	10
		Xylenes-mixed isomers (sum of o-, m-, and p-xylene concentrations)	1330-20-7	0.32	30
		Lead	7439-92-1	0.69	0.75 mg/l TCLP
K088	Spent potliners from primary aluminum reduction.	Acenaphthene	83-32-9	0.059	3.4
		Anthracene	120-12-7	0.059	3.4
		Benz(a)anthracene	56-55-3	0.059	3.4
		Benzo(a)pyrene	50-32-8	0.061	3.4
		Benzo(b)fluoranthene	205-99-2	0.11	6.8
		Benzo(k)fluoranthene	207-08-9	0.11	6.8
		Benzo(g,h,i)perylene	191-24-2	0.0055	1.8
		Chrysene	218-01-9	0.059	3.4
		Dibenz(a,h)anthracene	53-70-3	0.055	8.2

(Nule 0400	-12-0110, continued)				
		Indeno(1,2,3,- cd)pyrene	193-39-5	0.0055	3.4
		Penanthrene	85-01-8	0.059	5.6
		Pyrene	129-00-0	0.067	8.2
		Antimony	7440-36-0	1.9	1.15 mg/l TCLP
		Arsenic	7440-38-2	1.4	26.1 mg/kg
		Barium	7440-39-3	1.2	21 mg/l TCLP
		Beryllium	7440-41-7	0.82	1.22 mg/l TCLP
		Cadmium	7440-43-9	0.69	0.11 mg/l TCLP
		Chromium (Total)	7440-47-3	2.77	0.60 mg/l TCLP
		Lead	7439-92-1	0.69	0.75 mg/l TCLP
		Mercury	7439-97-6	0.15	0.025 mg/l TCLP
		Nickel	7440-02-0	3.98	11.0 mg/l TCLP
		Selenium	7782-49-2	0.82	5.7 mg/l TCLP
		Silver	7440-22-4	0.43	0.14 mg/l TCLP
		Cyanide (Total) ⁷	57-12-5	1.2	590
		Cyanide (Amenable) ⁷	57-12-5	0.86	30
		Fluoride	16984-48-8	35	NA
K093	Distillation light ends from the production of phthalic anhydride from ortho-xylene.	Phthalic anhydride (measured as Phthalic acid or Terephthalic acid)	100-21-0	0.055	28
		uoiu)			

ule 0400-	12-0110, continued)				
		Phthalic anhydride (measured as Phthalic acid or Terephthalic acid)	85-44-9	0.055	28
K094	Distillation bottoms from the production of phthalic anhydride from ortho-xylene.	Phthalic anhydride (measured as Phthalic acid or Terephthalic acid)	100-21-0	0.055	28
		Phthalic anhydride (measured as Phthalic acid or Terephthalic acid)	85-44-9	0.055	28
K095	Distillation bottoms from the production of 1,1,1-trichloroethane.	Hexachloroethane	67-72-1	0.055	30
	inchioroethane.	Pentachloroeth-ane	76-01-7	0.055	6.0
		1,1,1,2- Tetrachloroethane	630-20-6	0.057	6.0
		1,1,2,2- Tetrachloroethane	79-34-6	0.057	6.0
		Tetrachloroethy-lene	127-18-4	0.056	6.0
		1,1,2-Trichloroethane	79-00-5	0.054	6.0
		Trichloroethylene	79-01-6	0.054	6.0
K096	Heavy ends from the heavy ends column from the production of 1,1,1-trichloroethane.	m-Dichlorobenzene	541-73-1	0.036	6.0
		Pentachloroethane	76-01-7	0.055	6.0
		1,1,1,2- Tetrachloroethane	630-20-6	0.057	6.0

Rule 0400-	·12-0110, continued)				
	·	1,1,2,2- Tetrachloroethane	79-34-6	0.057	6.0
		Tetrachloroethy-lene	127-18-4	0.056	6.0
		1,2,4-Trichlorobenzene	120-82-1	0.055	19
		1,1,2-Trichloroethane	79-00-5	0.054	6.0
		Trichloroethylene	79-01-6	0.054	6.0
K097	Vacuum stripper discharge from the chlordane chlorinator in the production of chlordane.	Chlordane (alpha and gamma isomers)	57-74-9	0.0033	0.26
		Heptachlor	76-44-8	0.0012	0.066
		Heptachlor epoxide	1024-57-3	0.016	0.066
		Hexachloro- cyclopentadiene	77-47-4	0.057	2.4
K098	Untreated process wastewater from the production of toxaphene.	Toxaphene	8001-35-2	0.0095	2.6
K099	Untreated wastewater from the production of 2,4-D.	2,4-Dichloropheno- xyacetic acid	94-75-7	0.72	10
		HxCDDs (All Hexachloro-dibenzo-p- dioxins)	NA	0.000063	0.001
		HxCDFs (All Hexachlorodibenzofura ns)	NA	0.000063	0.001
		PeCDDs (All Pentachlorodibenzo-p- dioxins)	NA	0.000063	0.001
		PeCDFs (All Pentachloro- dibenzofurans)	NA	0.000035	0.001
		TCDDs (All Tetrachlorodibenzo-p- dioxins)	NA	0.000063	0.001

		TCDFs (All Tetrachlorodibenzo- furans)	NA	0.000063	0.001
K100	Waste leaching solution from acid leaching of emission control dust/sludge from secondary lead smelting.	Cadmium	7440-43-9	0.69	0.11 mg/l TCLF
	, contain, containing	Chromium (Total)	7440-47-3	2.77	0.60 mg/l TCLF
		Lead	7439-92-1	0.69	0.75 mg/l TCLF
K101	Distillation tar residues from the distillation of aniline-based compounds in the production of veterinary pharmaceuticals from arsenic or organo-arsenic compounds.	o-Nitroaniline	88-74-4	0.27	14
	compounds.	Arsenic	7440-38-2	1.4	5.0 mg/l TCLF
		Cadmium	7440-43-9	0.69	NA
		Lead	7439-92-1	0.69	NA
		Mercury	7439-97-6	0.15	NA
K102	K102 Residue from the use of activated carbon for decolorization in the production of veterinary pharmaceuticals from arsenic or organo-arsenic	o-Nitrophenol	88-75-5	0.028	13
	compounds.	Arsenic	7440-38-2	1.4	5.0 mg/l TCLI
		Cadmium	7440-43-9	0.69	NA
		Lead	7439-92-1	0.69	NA
		Mercury	7439-97-6	0.15	NA
K103	Process residues from aniline extraction from the production of aniline.	Aniline	62-53-3	0.81	14

ıle 0400-	-12-0110, continued)				
		Benzene	71-43-2	0.14	10
		2,4-Dinitrophenol	51-28-5	0.12	160
		Nitrobenzene	98-95-3	0.068	14
		Phenol	108-95-2	0.039	6.2
K104	Combined wastewater streams generated from nitrobenzene/ aniline production.	Aniline	62-53-3	0.81	14
		Benzene	71-43-2	0.14	10
		2,4-Dinitrophenol	51-28-5	0.12	160
		Nitrobenzene	98-95-3	0.068	14
		Phenol	108-95-2	0.039	6.2
		Cyanides (Total) ⁷	57-12-5	1.2	590
K105	Separated aqueous stream from the reactor product washing step in the production of chlorobenzenes.	Benzene	71-43-2	0.14	10
	CHIOLOGOLIZOTICS.	Chlorobenzene	108-90-7	0.057	6.0
		2-Chlorophenol	95-57-8	0.044	5.7
		o-Dichlorobenzene	95-50-1	0.088	6.0
		p-Dichlorobenzene	106-46-7	0.090	6.0
		Phenol	108-95-2	0.039	6.2
		2,4,5-Trichlorophenol	95-95-4	0.18	7.4
		2,4,6-Trichlorophenol	88-06-2	0.035	7.4

(Kule 0400	1-12-0110, continued)				
K106	K106 (wastewater treatment sludge from the mercury cell process in chlorine production) nonwastewaters that contain greater than or equal to 260 mg/kg total mercury.	Mercury	7439-97-6	NA	RMERC
	K106 (wastewater treatment sludge from the mercury cell process in chlorine production) nonwastewaters that contain less than 260 mg/kg total mercury that are residues from RMERC.	Mercury	7439-97-6	NA	0.20 mg/l TCLP
	Other K106 nonwastewaters that contain less than 260 mg/kg total mercury and are not residues from RMERC.	Mercury	7439-97-6	NA	0.025 mg/l TCLP
	All K106 wastewaters.	Mercury	7439-97-6	0.15	NA
K107	Column bottoms from product separation from the production of 1,1-dimethylhydrazine (UDMH) from carboxylic acid hydrazides.	NA	NA	CMBST; or CHOXD fb CARBN; or BIODG fb CARBN	CMBST
K108	Condensed column overheads from product separation and condensed reactor vent gases from the production of 1,1-dimethylhydrazine (UDMH) from carboxylic acid hydrazides.	NA	NA	CMBST; or CHOXD fb CARBN; or BIODG fb CARBN	CMBST
K109	Spent filter cartridges from product purification from the production of 1,1-dimethylhydrazine (UDMH) from carboxylic acid hydrazides.	NA	NA	CMBST; or CHOXD fb CARBN; or BIODG fb CARBN	CMBST
K110	Condensed column overheads from intermediate separation from the production of 1,1-dimethylhydrazine (UDMH) from carboxylic acid hydrazides.	NA	NA	CMBST; or CHOXD fb CARBN; or BIODG fb CARBN	CMBST
K111	Product washwaters from the production of dinitrotoluene via nitration of toluene	2,4-Dinitrotoluene	121-14-2	0.32	140

		2,6-Dinitrotoluene	606-20-2	0.55	28
K112	Reaction by-product water from the drying column in the production of toluenediamine via hydrogenation of dinitrotoluene.	NA	NA	CMBST; or CHOXD fb CARBN; or BIODG fb CARBN	CMBST
K113	Condensed liquid light ends from the purification of toluenediamine in the production of toluenediamine via hydrogenation of dinitrotoluene.	NA	NA	CARBN; OR CMBST	CMBST
K114	Vicinals from the purification of toluenediamine in the production of toluenediamine via hydrogenation of dinitrotoluene.	NA	NA	CARBN; or CMBST	CMBST
	Heavy ends from the purification of toluenediamine in the production of toluenediamine via hydrogenation of dinitrotoluene.	Nickel	7440-02-0	3.98	11 mg/l TCLi
		NA	NA	CARBN; or CMBST	CMBST
K116	Organic condensate from the solvent recovery column in the production of toluene diisocyanate via phosgenation of toluenediamine.	NA	NA	CARBN; or CMBST	CMBST
K117	Wastewater from the reactor vent gas scrubber in the production of ethylene dibromide via bromination of ethene.	Methyl bromide (Bromomethane)	74-83-9	0.11	15
		Chloroform	67-66-3	0.046	6.0
		Ethylene dibromide (1,2-Dibromoethane)	106-93-4	0.028	15

	-12-0110, continued)				
K118	Spent absorbent solids from purification of ethylene dibromide in the production of ethylene dibromide via bromination of ethene.	Methyl bromide (Bromomethane)	74-83-9	0.11	15
		Chloroform	67-66-3	0.046	6.0
		Ethylene dibromide (1,2-Dibromoethane)	106-93-4	0.028	15
K123	Process wastewater (including supernates, filtrates, and washwaters) from the production of ethylenebisdithiocarbamic acid and its salts.	NA	NA	CMBST; or CHOXD fb (BIODG or CARBN)	CMBST
K124	Reactor vent scrubber water from the production of ethylenebisdithiocarbamic acid and its salts.	NA	NA	CMBST; or CHOXD fb (BIODG or CARBN)	CMBST
K125	Filtration, evaporation, and centrifugation solids from the production of ethylenebisdithiocarbamic acid and its salts.	NA	NA	CMBST; or CHOXD fb (BIODG or CARBN)	CMBST
K126	Baghouse dust and floor sweepings in milling and packaging operations from the production or formulation of ethylenebisdithiocarbamic acid and its salts.	NA	NA	CMBST; or CHOXD fb (BIODG or CARBN)	CMBST
K131	Wastewater from the reactor and spent sulfuric acid from the acid dryer from the production of methyl bromide.	Methyl bromide (Bromomethane)	74-83-9	0.11	15
K132	Spent absorbent and wastewater separator solids from the production of methyl bromide.	Methyl bromide (Bromomethane)	74-83-9	0.11	15
K136	Still bottoms from the purification of ethylene dibromide in the production of ethylene dibromide via bromination of ethene.	Methyl bromide (Bromomethane)	74-83-9	0.11	15

		Chloroform	67-66-3	0.046	6.0
		Ethylene dibromide (1,2-Dibromoethane)	106-93-4	0.028	15
r i c r c	Process residues from the recovery of coal tar, including, but not limited to, collecting sump residues from the production of coke or the recovery of coke byproducts produced from coal. This listing does not include K087 (decanter tank tar sludge from coking operations).	Benzene	71-43-2	0.14	10
		Benz(a)anthra-cene	56-55-3	0.059	3.4
		Benzo(a)pyrene	50-2-8	0.061	3.4
		Benzo(b)fluoranthene (difficult to distinguish from benzo(k)fluoranthene)	205-99-2	0.11	6.8
		Benzo(k)fluoranthene (difficult to distinguish from benzo(b)fluoranthene)	207-08-9	0.11	6.8
		Chrysene	218-01-9	0.059	3.4
		Dibenz(a,h)anthracene	53-70-3	0.055	8.2
		Indeno(1,2,3-cd)pyrene	193-39-5	0.0055	3.4
K142	Tar storage tank residues from the production of coke from coal or from the recovery of coke by-products produced from coal.	Benzene	71-43-2	0.14	10
	produced nom ecal.				

(Rule 0400-12-0110, continu	uea)			
	Benzo(a)pyrene	50-32-8	0.061	3.4
	Benzo(b)fluor-anthene (difficult to distinguish from benzo(k)fluor- anthene)		0.11	6.8
	Benzo(k)fluor-anthene (difficult to distinguish from benzo(b)fluor- anthene)		0.11	6.8
	Chrysene	218-01-9	0.059	3.4
	Dibenz(a,h)anthra-cene	53-70-3	0.055	8.2
	Indeno(1,2,3-cd)pyrene	193-39-5	0.0055	3.4
including, but not those generated decanters, and	ght oil, limited to, in stills, wash oil from the /-products	71-43-2	0.14	10
	Benz(a)anthra-cene	56-55-3	0.059	3.4
	Benzo(a)pyrene	50-32-8	0.061	3.4
	Benzo(b)fluor-anthene (difficult to distinguish from benzo(k)fluor- anthene)		0.11	6.8
	Benzo(k)flour-anthene (difficult to distinguish from benzo(b)fluor- anthene)		0.11	6.8
	Chrysene	218-01-9	0.059	3.4

	12-01 10, continued)				
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.	Benzene	71-43-2	0.14	10
		Benz(a)anthra-cene	56-55-3	0.059	3.4
		Benzo(a)pyrene	50-32-8	0.061	3.4
		Benzo(b)fluor-anthene (difficult to distinguish from benzo(k)fluor- anthene)	205-99-2	0.11	6.8
		Benzo(k)fluor-anthene (difficult to distinguish from benzo(b)fluor- anthene)	207-08-9	0.11	6.8
		Chrysene	218-01-9	0.059	3.4
		Dibenz(a,h)anthra-cene	53-70-3	0.055	8.2
K145	Residues from naphthalene collection and recovery operations from the recovery of coke by-products produced from coal.	Benzene	71-43-2	0.14	10
	produced from codi.	Benz(a)anthra-cene	56-55-3	0.059	3.4
		Benzo(a)pyrene	50-32-8	0.061	3.4
		Chrysene	218-01-9	0.059	3.4
		Dibenz(a,h)anthra-cene	53-70-3	0.055	8.2
		Naphthalene	91-20-3	0.059	5.6
K147	Tar storage tank residues from coal tar refining.	Benzene	71-43-2	0.14	10

(1 tale 0+00-	12-0110, continued)				
		Benz(a)anthra-cene	56-55-3	0.059	3.4
		Benzo(a)pyrene	50-32-8	0.061	3.4
		Benzo(b)fluor-anthene (difficult to distinguish from benzo(k)fluor- anthene)	205-99-2	0.11	6.8
		Benzo(k)fluoran-thene (difficult to distinguish from benzo(b)fluoran- thene)	207-08-9	0.11	6.8
		Chrysene	218-01-9	0.059	3.4
		Dibenz(a,h)anthra-cene	53-70-3	0.055	8.2
		Indeno(1,2,3-cd)pyrene	193-39-5	0.0055	3.4
K148	Residues from coal tar distillation, including, but not limited to, still bottoms.	Benz(a)anthra-cene	56-55-3	0.059	3.4
	innico to, sui sottonis.	Benzo(a)pyrene	50-32-8	0.061	3.4
		Benzo(b)fluor-anthene (difficult to distinguish from benzo(k)fluor- anthene)	205-99-2	0.11	6.8
		Benzo(k)fluor-anthene (difficult to distinguish from benzo(b)fluor- anthene)	207-08-9	0.11	6.8
		Chrysene	218-01-9	0.059	3.4
		Dibenz(a,h)anthra-cene	53-70-3	0.055	8.2
l	l				

)-12-0110, continued)	Indeno(1,2,3-cd)pyrene	193-39-5	0.0055	3.4
K149	production of alpha- (or methyl-) chlorinated toluenes, ring-chlorinated toluenes, benzoyl chlorides, and compounds with mixtures of these functional groups. (This waste does not include still bottoms from the distillations of benzyl	Chlorobenzene	108-90-7	0.057	6.0
	chloride.)	Chloroform	67-66-3	0.046	6.0
		Chloromethane	74-87-3	0.19	30
		p-Dichlorobenzene	106-46-7	0.090	6.0
		Hexachloroben-zene	118-74-1	0.055	10
		Pentachloroben-zene	608-93-5	0.055	10
		1,2,4,5-Tetrachloroben- zene	95-94-3	0.055	14
		Toluene	108-88-3	0.080	10
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	Carbon tetrachloride	56-23-5	0.057	6.0
	groups.	Chloroform	67-66-3	0.046	6.0
		Chloromethane	74-87-3	0.19	30

(Rule 0400-	-12-0110, continued)				
		p-Dichlorobenzene	106-46-7	0.090	6.0
		Hexachlorobenzene	118-74-1	0.055	10
		Pentachloroben-zene	608-93-5	0.055	10
		1,2,4,5-Tetrachloroben- zene	95-94-3	0.055	14
		1,1,2,2- Tetrachloroethane	79-34-5	0.057	6.0
		Tetrachloroethyl-ene	127-18-4	0.056	6.0
		1,2,4-Trichlorobenzene	120-82-1	0.055	19
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.	Benzene	71-43-2	0.14	10
		Carbon tetrachloride	56-23-5	0.057	6.0
		Chloroform	67-66-3	0.046	6.0
		Hexachlorobenzene	118-74-1	0.055	10
		Pentachloroben-zene	608-93-5	0.055	10
		1,2,4,5-Tetrachloroben- zene	95-94-3	0.055	14
		Tetrachloroethyl-ene	127-18-4	0.056	6.0
		Toluene	108-88-3	0.080	10
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K156	Organic waste (including heavy ends, still bottoms, light ends, spent solvents, filtrates, and decantates) from the production of carbamates and carbamoyl oximes	Acetonitrile	75-05-8	5.6	1.8
		Acetophenone	98-86-2	0.010	9.7
		Aniline	62-53-3	0.81	14
		Benomyl ¹⁰	17804-35-2	0.056; or CMBST, CHOXD, BIODG or CARBN	1.4; or CMBST
		Benzene	71-43-2	0.14	10
		Carbaryl ¹⁰	63-25-2	0.006; or CMBST, CHOXD, BIODG or CARBN	0.14; or CMBST
		Carbenzadim ¹⁰	10605-21-7	0.056; or CMBST, CHOXD, BIODG or CARBN	1.4; or CMBST
		Carbofuran ¹⁰	1563-66-2	0.006; or CMBST, CHOXD, BIODG or CARBN	0.14; or CMBST
		Carbosulfan ¹⁰	55285-14-8	0.028; or CMBST, CHOXD, BIODG or CARBN	1.4; or CMBST
		Chlorobenzene	108-90-7	0.057	6.0
		Chloroform	67-66-3	0.046	6.0
		o-Dichlorobenzene	95-50-1	0.088	6.0
		Methomyl ¹⁰	16752-77-5	0.028; or CMBST, CHOXD, BIODG or CARBN	0.14; or CMBST
		Methylene chloride	75-09-2	0.089	30
		Methyl ethyl ketone	78-93-3	0.28	36

(Rule 0400-	12-0110, continued)				
		Naphthalene	91-20-3	0.059	5.6
		Phenol	108-95-2	0.039	6.2
		Pyridine	110-86-1	0.014	16
		Toluene	108-88-3	0.080	10
		Triethylamine	121-44-8	0.081; or CMBST, CHOXD, BIODG or CARBN	1.5; or CMBST
K157	Wastewaters (including scrubber waters, condenser waters, washwaters, and separation waters) from the production of carbamates and carbamoyl oximes.	Carbon tetrachloride	56-23-5	0.057	6.0
	,	Chloroform	67-66-3	0.046	6.0
		Chloromethane	74-87-3	0.19	30
		Methomyl ¹⁰	16752-77-5	0.028; or CMBST, CHOXD, BIODG or CARBN	0.14; or CMBST
		Methylene chloride	75-09-2	0.089	30
		Methyl ethyl ketone	78-93-3	0.28	36
		Pyridine	110-86-1	0.014	16
		Triethylamine	121-44-8	0.081; or CMBST, CHOXD, BIODG or CARBN	1.5; or CMBST
K158	Bag house dusts and filter/separation solids from the production of carbamates and carbamoyl oximes.	Benzene	71-43-2	0.14	10
		Carbenzadim ¹⁰	10605-21-7	0.056; or CMBST, CHOXD, BIODG or CARBN	1.4; or CMBST
		Carbofuran ¹⁰	1563-66-2	0.006; or CMBST, CHOXD, BIODG or CARBN	0.14; or CMBST

(Rule 0400	-12-0110, continued)				
		Carbosulfan ¹⁰	55285-14-8	0.028; or CMBST, CHOXD, BIODG or CARBN	1.4; or CMBST
		Chloroform	67-66-3	0.046	6.0
		Methylene chloride	75-09-2	0.089	30
		Phenol	108-95-2	0.039	6.2
K159	Organics from the treatment of thiocarbamate wastes.	Benzene	71-43-2	0.14	10
		Butylate ¹⁰	2008-41-5	0.042; or CMBST, CHOXD, BIODG or CARBN	1.4; or CMBST
		EPTC (Eptam) ¹⁰	759-94-4	0.042; or CMBST, CHOXD, BIODG or CARBN	1.4; or CMBST
		Molinate ¹⁰	2212-67-1	0.042; or CMBST, CHOXD, BIODG or CARBN	1.4; or CMBST
		Pebulate ¹⁰	1114-71-2	0.042; or CMBST, CHOXD, BIODG or CARBN	1.4; or CMBST
		Vernolate ¹⁰	1929-77-7	0.042; or CMBST, CHOXD, BIODG or CARBN	1.4; or CMBST
K161	Purification solids (including filtration, evaporation, and centrifugation solids), baghouse dust and floor sweepings from the production of dithiocarbamate acids and their salts.	Antimony	7440-36-0	1.9	1.15 mg/L TCLP
		Arsenic	7440-38-2	1.4	5.0 mg/L TCLP
		Carbon disulfide	75-15-0	3.8	4.8 mg/L TCLP
		Dithiocarbamates (total) 10	NA	0.028; or CMBST, CHOXD, BIODG or CARBN	28; or CMBST

(Rule 0400-	-12-0110, continued)				
		Lead	7439-92-1	0.69	0.75 mg/L TCLP
		Nickel	7440-02-0	3.98	11.0 mg/L TCLP
		Selenium	7782-49-2	0.82	5.7 mg/L TCLP
K169	Crude oil tank sediment from petroleum refining operations.	Benz(a)anthra-cene	56-55-3	0.059	3.4
		Benzene	71-43-2	0.14	10
		Benzo(g,h,i)-perylene	191-24-2	0.0055	1.8
		Chrysene	218-01-9	0.059	3.4
		Ethyl benzene	100-41-4	0.057	10
		Fluorene	86-73-7	0.059	3.4
		Naphthalene	91-20-3	0.059	5.6
		Phenanthrene	81-05-8	0.059	5.6
		Pyrene	129-00-0	0.067	8.2

(Rule 0400-	-12-0110, continued)				
		Toluene (Methyl Benzene)	108-88-3	0.080	10
		Xylene(s) (Total)	1330-20-7	0.32	30
K170	Clarified slurry oil sediment from petroleum refining operations.	Benz(a)anthra-cene	56-55-3	0.059	3.4
		Benzene	71-43-2	0.14	10
		Benzo(g,h,i)-perylene	191-24-2	0.0055	1.8
		Chrysene	218-01-9	0.059	3.4
		Dibenz(a,h)-anthracene	53-70-3	0.055	8.2
		Ethyl benzene	100-41-4	0.057	10
		Fluorene	86-73-7	0.059	3.4
		Indeno(1,2,3,-cd)- pyrene	193-39-5	0.0055	3.4
		Naphthalene	91-20-3	0.059	5.6

Rule 0400-	·12-0110, continued)				
		Phenanthrene	81-05-8	0.059	5.6
		Pyrene	129-00-0	0.067	8.2
		Toluene (Methyl Benzene)	108-88-3	0.080	10
		Xylene(s)(Total)	1330-20-7	0.32	30
K171	Spent hydrotreating catalyst from petroleum refining operations, including guard beds used to desulfurize feed to other catalytic reactors (this listing does not	Benz(a)anthra-cene	56-55-3	.059	34
	include inert suport media.).	Benzene	71-43-2	0.14	10
		Chrysene	218-01-9	0.059	3.4
		Ethyl benzene	100-41-4	0.057	10
		Naphthalene	91-20-3	0.059	5.6
		Phenanthrene	81-05-8	0.059	5.6

(Rule 0400-	12-0110, continued)				
		Pyrene	129-00-0	0.067	8.2
		Toluene (Methyl Benzene)	108-88-3	0.080	10
		Xylene(s) (Total)	1330-20-7	0.32	30
		Arsenic	7740-38-2	1.4	5 mg/l TCLP
		Nickel	7440-02-0	3.98	11.0 mg/l TCLP
		Vanadium	7440-62-2	4.3	1.6 mg/l TCLP
		Reactive sulfides	NA	DEACT	DEACT
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.).	Benzene	71-43-2	0.14	10
		Ethyl benzene	100-41-4	0.057	10
		Toluene (Methyl Benzene)	108-88-3	0.080	10

(Rule 0400-	12-0110, continued)				
		Xylene(s) (Total)	1330-20-7	0.32	30
		Antimony	7740-36-0	1.9	1.15 mg/l TCLP
		Arsenic	7740-38-2	1.4	5 mg/l TCLP
		Nickel	7440-02-0	3.98	11.0 mg/l TCLP
		Vanadium	7440-62-2	4.3	1.6 mg/l TCLP
		Reactive Sulfides	NA	DEACT	DEACT
K174	Wastewater treatment sludges from the production of ethylene dichloride or vinyl chloride monomer.	1, 2, 3, 4, 6, 7, 8- Heptachlorodibenzo-p- dioxin (1, 2, 3, 4, 6, 7, 8-HpCDD)	35822-46-9	0.000035 or CMBST ¹¹	0.0025 or CMBST ¹¹
		1, 2, 3, 4, 6, 7, 8- Heptachlorodibenzofur an (1, 2, 3, 4, 6, 7, 8- HpCDF)	67562-39-4	0.000035 or CMBST ¹¹	0.0025 or CMBST ¹¹
		1, 2, 3, 4, 7, 8, 9- Heptachlorodibenzofur an (1, 2, 3, 4, 7, 8, 9- HpCDF)	55673-89-7	0.000035 or CMBST ¹¹	0.0025 or CMBST ¹¹
		HxCDDs (All Hexachlorodibenzo-p- dioxins)	34465-46-8	0.000063 or CMBST ¹¹	0.001 or CMBST ¹¹
		HxCDFs (All Hexachlorodibenzofura ns)	55684-94-1	0.000063 or CMBST ¹¹	0.001 or CMBST ¹¹

(Rule 0400	-12-0110, continued)				
		1, 2, 3, 4, 6, 7, 8, 9- Octachlorodibenzo-p- dioxin (OCDD)	3268-87-9	0.000063 or CMBST ¹¹	0.005 or CMBST ¹¹
		1, 2, 3, 4, 6, 7, 8, 9- Octachlorodibenzofura n (OCDF)	39001-02-0	0.000063 or CMBST ¹¹	0.005 or CMBST ¹¹
		PeCDDs (All Pentachlorodibenzo-p- dioxins)	36088-22-9	0.000063 or CMBST ¹¹	0.001 or CMBST ¹¹
		PeCDFs (All Pentachlorodibenzofura ns)	30402-15-4	0.000035 or CMBST ¹¹	0.001 or CMBST ¹¹
		TCDDs (All Tetrachlorodi-benzo-p- dioxins)	41903-57-5	0.000063 or CMBST ¹¹	0.001 or CMBST ¹¹
		TCDFs (All Tetrachlorodibenzofura ns)	55722-27-5	0.000063 or CMBST ¹¹	0.001 or CMBST ¹¹
		Arsenic	7440-36-0	1.4	5.0 mg/L TCLP
K175	Wastewater treatment sludge from the production of vinyl chloride monomer using mercuric chloride catalyst in an acetylene-based process.	Mercury ¹²	7438-97-6	NA	0.025 mg/L TCLP
	3335, 1313 33334 pro3300.	pH ¹²		NA	pH ≤6.0
	All K175 wastewaters	Mercury	7438-97-6	0.15	NA
L	1	<u> </u>	l		1

(1 tule 0400-	12-0110, continuea)				
production of oxide, including fill the production intermediates (antimony metal of	oxide, including filters from the production of	Antimony	7440-36-0	1.9	1.15 mg/L TCLP
		Arsenic	7440-38-2	1.4	5.0 mg/L TCLP
		Cadmium	7440-43-9	0.69	0.11 mg/L TCLP
		Lead	7439-92-1	0.69	0.75 mg/L TCLP
		Mercury	7439-97-6	0.15	0.025 mg/L TCLP
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)	Antimony	7440-36-0	1.9	1.15 mg/L TCLP
		Arsenic	7440-38-2	1.4	5.0 mg/L TCLP
		Lead	7439-92-1	0.69	0.75 mg/L TCLP
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	1, 2, 3, 4, 6, 7, 8- Heptachlorodiben-zop- dioxin (1, 2, 3, 4, 6, 7, 8-HpCDD)	35822-39-4	0.000035 or CMBST ¹¹	0.0025 or CMBST ¹¹

Rule 0400-12-0110, contir	nued)			
	1, 2, 3, 4, 6, 7, 8- Heptachlorodiben- zofuran (1, 2, 3, 4, 6, 7, 8-HpCDF)	67562-39-4	0.000035 or CMBST ¹¹	0.0025 or CMBST ¹¹
	1, 2, 3, 4, 7, 8, 9- Heptachlorodiben- zofuran (1, 2, 3, 4, 7, 8, 9-HpCDF)	55673-89-7	0.000035 or CMBST ¹¹	0.0025 or CMBST ¹¹
	HxCDDs (All Hexachlorodibenzo-p-dioxins)	34465-46-8	0.000063 or CMBST ¹¹	0.001 or CMBST ¹¹
	HxCDFs (All Hexachlorodibenzo- furans)	55684-94-1	0.000063 or CMBST ¹¹	0.001or CMBST ¹¹
	1, 2, 3, 4, 6, 7, 8, 9- Octachlorodibenzo-p- dioxin (OCDD)	3268-87-9	0.000063 or CMBST ¹¹	0.005 or CMBST ¹¹
	1, 2, 3, 4, 6, 7, 8, 9- Octachlorodibenzo- furan (OCDF)	39001-02-0	0.000063 or CMBST ¹¹	0.005 or CMBST ¹¹
	PeCDDs (All Pentachlorodiben-zop-dioxins)	36088-22-9	0.000063 or CMBST ¹¹	0.001 or CMBST ¹¹
	PeCDFs (All Pentachlorodiben-zop-dioxins)	30402-15-4	0.000035 or CMBST ¹¹	0.001 or CMBST ¹¹
	TCDDs (All Tetrachlorodibenzo-p-dioxings)	41903-57-5	0.000063 or CMBST ¹¹	0.001 or CMBST ¹¹
	TCDFs (All Tetrachlorodibenzo-furans)	55722-27-5	0.000063 or CMBST ¹¹	0.001 or CMBST ¹¹
	Thallium	7440-28-0	1.4	0.20 mg/L TCLP

	12-0110, continued)	, ,		T	T.
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 part 3 of Rule 0400-12-0102(4)(c) that are equal to or greater than the corresponding part 3 levels, as determined on a calendar year basis.	Aniline	62-53-3	0.81	14
	, your buoid.	o-Anisidine (2- methoxyaniline)	90-04-0	0.010	0.66
		4-Chloroaniline	106-47-8	0.46	16
		p-Cresidine	120-71-8	0.010	0.66
		2, 4-Dimethylaniline (2, 4-xylidine)	95-68-1	0.010	0.66
		1, 2-Phenylenediamine	95-54-5	CMBST; or CHOXD fb (BIODG or CARBN); or BIODG fb CARBN	CMBST; or CHOXD fb (BIODG or CARBN); or BIODG fb CARBN
		1, 3-Phenylenediamine	108-45-2	0.010	0.66
P001	Warfarin, & salts, when present at concentrations greater than 0.3%	Warfarin	81-81-2	(WETOX or CHOXD) fb CARBN; or CMBST	CMBST

P002	1-Acetyl-2-thiourea	1-Acetyl-2-thiourea	591-08-2	(WETOX or CHOXD) fb CARBN; or CMBST	CMBST
P003	Acrolein	Acrolein	107-02-8	0.29	CMBST
P004	Aldrin	Aldrin	309-00-2	0.021	0.066
P005	Allyl alcohol	Allyl alcohol	107-18-6	(WETOX or CHOXD) fb CARBN; or CMBST	CMBST
P006	Aluminum phosphide	Aluminum phosphide	20859-73-8	CHOXD; CHRED; or CMBST	CHOXD; CHRED; or CMBST
P007	5-Aminomethyl 3-isoxazolol	5-Aminomethyl 3- isoxazolol	2763-96-4	(WETOX or CHOXD) fb CARBN; or CMBST	CMBST
P008	4-Aminopyridine	4-Aminopyridine	504-24-5	(WETOX or CHOXD) fb CARBN; or CMBST	CMBST
P009	Ammonium picrate	Ammonium picrate	131-74-8	CHOXD; CHRED; CARBN; BIODG; or CMBST	CHOXD; CHRED; or CMBST
P010	Arsenic acid	Arsenic	7440-38-2	1.4	5.0 mg/l TCLP
P011	Arsenic pentoxide	Arsenic	7440-38-2	1.4	5.0 mg/l TCLP
P012	Arsenic trioxide	Arsenic	7440-38-2	1.4	5.0 mg/l TCLP
P013	Barium cyanide	Barium	7440-39-3	NA	21 mg/l TCLP
		Cyanides (Total) ⁷	57-12-5	1.2	590
		Cyanides (Amenable) ⁷	57-12-5	0.86	30
P014	Thiophenol (Benzene thiol)	Thiophenol (Benzene thiol)	108-98-5	(WETOX or CHOXD) fb CARBN; or CMBST	CMBST

P015	Beryllium dust	Beryllium	7440-41-7	RMETL; or RTHRM	RMETL; or RTHRM
P016	Dichloromethyl ether (Bis(chloromethyl)ether)	Dichloromethyl ether	542-88-1	(WETOX or CHOXD) fb CARBN; or CMBST	CMBST
P017	Bromoacetone	Bromoacetone	598-31-2	(WETOX or CHOXD) fb CARBN; or CMBST	CMBST
P018	Brucine	Brucine	357-57-3	(WETOX or CHOXD) fb CARBN; or CMBST	CMBST
P020	2-sec-Butyl-4,6-dinitrophenol (Dinoseb)	2-sec-Butyl-4,6- dinitrophenol (Dinoseb)	88-85-7	0.066	2.5
P021	Calcium cyanide	Cyanides (Total) ⁷	57-12-5	1.2	590
		Cyanides (Amenable) ⁷	57-12-5	0.86	30
P022	Carbon disulfide	Carbon disulfide	75-15-0	3.8	CMBST
		Carbon disulfide; alternate ⁶ standard for nonwastewaters only	75-15-0	NA	4.8 mg/l TCL
P023	Chloroacetaldehyde	Chloroacetalde-hyde	107-20-0	(WETOX or CHOXD) fb CARBN; or CMBST	CMBST
P024	p-Chloroaniline	p-Chloroaniline	106-47-8	0.46	16
P026	1-(o-Chlorophenyl)thiourea	1-(o- Chlorophenyl)thiourea	5344-82-1	(WETOX or CHOXD) fb CARBN; or CMBST	CMBST
P027	3-Chloropropionitrile	3-Chloropropionitrile	542-76-7	(WETOX or CHOXD) fb CARBN; or CMBST	CMBST

P028	Benzyl chloride	Benzyl chloride	100-44-7	(WETOX or CHOXD) fb CARBN; or CMBST	CMBST
P029	Copper cyanide	Cyanides (Total) ⁷	57-12-5	1.2	590
		Cyanides (Amenable) ⁷	57-12-5	0.86	30
P030	Cyanides (soluble salts and complexes)	Cyanides (Total) ⁷	57-12-5	1.2	590
		Cyanides (Amenable) ⁷	57-12-5	0.86	30
P031	Cyanogen	Cyanogen	460-19-5	CHOXD; WETOX; or CMBST	CHOXD; WETOX; or CMBST
P033	Cyanogen chloride	Cyanogen chloride	506-77-4	CHOXD; WETOX; or CMBST	CHOXD; WETOX; or CMBST
P034	2-Cyclohexyl-4,6- dinitrophenol	2-Cyclohexyl-4,6- dinitrophenol	131-89-5	(WETOX or CHOXD) fb CARBN; or CMBST	CMBST
P036	Dichlorophenylarsine	Arsenic	7440-38-2	1.4	5.0 mg/l TCLP
P037	Dieldrin	Dieldrin	60-57-1	0.017	0.13
P038	Diethylarsine	Arsenic	7440-38-2	1.4	5.0 mg/l TCLP
P039	Disulfoton	Disulfoton	298-04-4	0.017	6.2
P040	0,0-Diethyl O-pyrazinyl phosphorothioate	0,0-Diethyl O-pyrazinyl phosphorothioate	297-97-2	CARBN; or CMBST	CMBST
P041	Diethyl-p-nitrophenyl phosphate	Diethyl-p-nitrophenyl phosphate	311-45-5	CARBN; or CMBST	CMBST
P042	Epinephrine	Epinephrine	51-43-4	(WETOX or CHOXD) fb CARBN; or CMBST	CMBST
P043	Diisopropylfluorophosphate (DFP)	Diisopropylfluoro- phosphate (DFP)	55-91-4	CARBN; or CMBST	CMBST

P044	Dimethoate	Dimethoate	60-51-5	CARBN; or CMBST	CMBST
P045	Thiofanox	Thiofanox	39196-18-4	(WETOX or CHOXD) fb CARBN; or CMBST	CMBST
P046	alpha, alpha- Dimethylphenethylamine	alpha, alpha- Dimethylphenethyl- amine	122-09-8	(WETOX or CHOXD) fb CARBN; or CMBST	CMBST
P047	4,6-Dinitro-o-cresol	4,6-Dinitro-o-cresol	543-52-1	0.28	160
	4,6-Dinitro-o-cresol salts	NA	NA	(WETOX or CHOXD) fb CARBN; or CMBST	CMBST
P048	2,4-Dinitrophenol	2,4-Dinitrophenol	51-28-5	0.12	160
P049	Dithiobiuret	Dithiobiuret	541-53-7	(WETOX or CHOXD) fb CARBN; or CMBST	CMBST
P050	Endosulfan	Endosulfan I	939-98-8	0.023	0.066
		Endosulfan II	33213-6-5	0.029	0.13
		Endosulfan sulfate	1031-07-8	0.029	0.13
P051	Endrin	Endrin	72-20-8	0.0028	0.13
		Endrin aldehyde	7421-93-4	0.025	0.13
P054	Aziridine	Aziridine	151-56-4	(WETOX or CHOXD) fb CARBN; or CMBST	CMBST
P056	Fluorine	Fluoride (measured in wastewaters only)	16964-48-8	35	ADGAS fb NEUTI

P057	Fluoroacetamide	Fluoroacetamide	640-19-7	(WETOX or CHOXD) fb CARBN; or CMBST	CMBST
P058	Fluoroacetic acid, sodium salt	Fluoroacetic acid, sodium salt	62-74-8	(WETOX or CHOXD) fb CARBN; or CMBST	CMBST
P059	Heptachlor	Heptachlor	76-44-8	0.0012	0.066
		Heptachlor epoxide	1024-57-3	0.016	0.066
P060	Isodrin	Isodrin	465-73-6	0.021	0.066
P062	Hexaethyl tetraphosphate	Hexaethyl tetraphosphate	757-58-4	CARBN; or CMBST	CMBST
P063	Hydrogen cyanide	Cyanides (Total) ⁷	57-12-5	1.2	590
		Cyanides (Amenable) ⁷	57-12-5	0.86	30
P064	Isocyanic acid, ethyl-ester	Isocyanic acid, ethyl ester	624-83-9	(WETOX or CHOXD) fb CARBN; or CMBST	CMBST
P065	Mercury fulminate nonwastewaters, regardless of their total mercury content, that are not incinerator residues or are not residues from RMERC.	Mercury	7439-97-6	NA	IMERC
	Mercury fulminate nonwastewaters that are either incinerator residues or are residues from RMERC; and contain greater than or equal to 260 mg/kg total mercury.	Mercury	7439-97-6	NA	RMERC
	Mercury fulminate nonwastewaters that are residues from RMERC and contain less than 260 mg/kg total mercury.	Mercury	7439-97-6	NA	0.20 mg/l TCLF

	Mercury fulminate nonwastewaters that are incinerator residues and contain less than 260 mg/kg total mercury.	Mercury	7439-97-6	NA	0.025 mg/l TCLP
	All mercury fulminate wastewaters.	Mercury	7439-97-6	0.15	NA
P066	Methomyl	Methomyl	16752-77-5	(WETOX or CHOXD) fb CARBN; or CMBST	CMBST
P067	2-Methyl-aziridine	2-Methyl-aziridine	75-55-8	(WETOX or CHOXD) fb CARBN; or CMBST	CMBST
P068	Methyl hydrazine	Methyl hydrazine	60-34-4	CHOXD; CHRED; CARBN; BIODG; or CMBST	CHOXD; CHRED; or CMBST
P069	2-Methyllactonitrile	2-Methyllactonitrile	75-86-5	(WETOX or CHOXD) fb CARBN; or CMBST	CMBST
P070	Aldicarb	Aldicarb	116-06-3	(WETOX or CHOXD) fb CARBN; or CMBST	CMBST
P071	Methyl parathion	Methyl parathion	298-00-0	0.014	4.6
P072	1-Naphthyl-2-thiourea	1-Naphthyl-2-thiourea	86-88-4	(WETOX or CHOXD) fb CARBN; or CMBST	CMBST
P073	Nickel carbonyl	Nickel	7440-02-0	3.98	11 mg/l TCLP
P074	Nickel cyanide	Cyanides (Total) ⁷	57-12-5	1.2	590
		Cyanides (Amenable) ⁷	57-12-5	0.86	30
		Nickel	7440-02-0	3.98	11 mg/l TCLP

P075	Nicotine and salts	Nicotine and salts	54-11-5	(WETOX or CHOXD) fb CARBN; or CMBST	CMBST
P076	Nitric oxide	Nitric oxide	10102-43-9	ADGAS	ADGAS
P077	p-Nitroaniline	p-Nitroaniline	100-01-6	0.028	28
P078	Nitrogen dioxide	Nitrogen dioxide	10102-44-0	ADGAS	ADGAS
P081	Nitroglycerin	Nitroglycerin	55-63-0	CHOXD; CHRED; CARBN; BIODG; or CMBST	CHOXD; CHRED; or CMBST
P082	N-Nitrosodimethylamine	N-Nitrosodimethyl- amine	62-75-9	0.40	2.3
P084	N-Nitrosomethylvinylamine	N-Nitrosomethylvinyl- amine	4549-40-0	(WETOX or CHOXD) fb CARBN; or CMBST	CMBST
P085	Octamethylpyrophosph- oramide	Octamethylpyro- phosphoramide	152-16-9	CARBN; or CMBST	CMBST
P087	Osmium tetroxide	Osmium tetroxide	20816-12-0	RMETL; or RTHRM	RMETL; or RTHRM
P088	Endothall	Endothall	145-73-3	(WETOX or CHOXD) fb CARBN; or CMBST	CMBST
P089	Parathion	Parathion	56-38-2	0.014	4.6
P092	Phenyl mercuric acetate nonwastewaters, regardless of their total mercury content, that are not incinerator residues or are not residues from RMERC.	Mercury	7439-97-6	NA	IMERC; or RMERC
	Phenyl mercuric acetate nonwastewaters that are either incinerator residues or are residues from RMERC; and still contain greater than or equal to 260 mg/kg total mercury.	Mercury	7439-97-6	NA	RMERC

valo 0400	Phenyl mercuric acetate nonwastewaters that are residues from RMERC and contain less than 260 mg/kg total mercury.	Mercury	7439-97-6	NA	0.20 mg/l TCLP
	Phenyl mercuric acetate nonwastewaters that are incinerator residues and contain less than 260 mg/kg total mercury.	Mercury	7439-97-6	NA	0.025 mg/l TCLP
	All phenyl mercuric acetate wastewaters.	Mercury	7439-97-6	0.15	NA
P093	Phenylthiourea	Phenylthiourea	103-85-5	(WETOX or CHOXD) fb CARBN; or CMBST	CMBST
P094	Phorate	Phorate	298-02-2	0.021	4.6
P095	Phosgene	Phosgene	75-44-5	(WETOX or CHOXD) fb CARBN; or CMBST	CMBST
P096	Phosphine	Phosphine	7803-51-2	CHOXD; CHRED; or CMBST	CHOXD; CHRED; or CMBST
P097	Famphur	Famphur	52-85-7	0.017	15
P098	Potassium cyanide.	Cyanides (Total) ⁷	57-12-5	1.2	590
		Cyanides (Amenable) ⁷	57-12-5	0.86	30
P099	Potassium silver cyanide	Cyanides (Total) ⁷	57-12-5	1.2	590
		Cyanides (Amenable) ⁷	57-12-5	0.86	30
		Silver	7440-22-4	0.43	0.14 mg/l TCLP
P101	Ethyl cyanide (Propanenitrile)	Ethyl cyanide (Propanenitrile)	107-12-0	0.24	360
P102	Propargyl alcohol	Propargyl alcohol	107-19-7	(WETOX or CHOXD) fb CARBN; or CMBST	CMBST

P103	Selenourea	Selenium	7782-49-2	0.82	5.7 mg/l TCLP
P104	Silver cyanide	Cyanides (Total) ⁷	57-12-5	1.2	590
		Cyanides (Amenable) ⁷	57-12-5	0.86	30
		Silver	7440-22-4	0.43	0.14 mg/l TCLI
P105	Sodium azide	Sodium azide	26628-22-8	CHOXD; CHRED; CARBN; BIODG; or CMBST	CHOXD; CHRE or CMBST
P106	Sodium cyanide	Cyanides (Total) ⁷	57-12-5	1.2	590
		Cyanides (Amenable) ⁷	57-12-5	0.86	30
P108	Strychnine and salts	Strychnine and salts	57-24-9	(WETOX or CHOXD) fb CARBN; or CMBST	CMBST
P109	Tetraethyldithiopyro- phosphate	Tetraethyldithio- pyrophosphate	3689-24-5	CARBN; or CMBST	CMBST
P110	Tetraethyl lead	Lead	7439-92-1	0.69	0.75 mg/l TCL
P111	Tetraethylpyrophosphate	Tetraethylpyrophosphat e	107-49-3	CARBN; or CMBST	CMBST
P112	Tetranitromethane	Tetranitromethane	509-14-8	CHOXD; CHRED; CARBN; BIODG; or CMBST	CHOXD; CHRE or CMBST
P113	Thallic oxide	Thallium (measured in wastewaters only)	7440-28-0	1.4	RTHRM; or STABL
P114	Thallium selenite	Selenium	7782-49-2	0.82	5.7 mg/l TCLI
P115	Thallium (I) sulfate	Thallium (measured in wastewaters only)	7440-28-0	1.4	RTHRM; or STABL

<u>`</u>	7-12-0110, continued)				
P116	Thiosemicarbazide	Thiosemicarba-zide	79-19-6	(WETOX or CHOXD) fb CARBN; or CMBST	CMBST
P118	Trichloromethanethiol	Trichloro-methanethiol	75-70-7	(WETOX or CHOXD) fb CARBN; or CMBST	CMBST
P119	Ammonium vanadate	Vanadium (measured in wastewaters only)	7440-62-2	4.3	STABL
P120	Vanadium pentoxide	Vanadium (measured in wastewaters only)	7440-62-2	4.3	STABL
P121	Zinc cyanide	Cyanides (Total) ⁷	57-12-5	1.2	590
		Cyanides (Amenable) ⁷	57-12-5	0.86	30
P122	Zinc phosphide Zn ₃ P ₂ , when present at concentrations greater than 10%	Zinc Phosphide	1314-84-7	CHOXD; CHRED; or CMBST	CHOXD; CHRED; or CMBST
P123	Toxaphene	Toxaphene	8001-35-2	0.0095	2.6
P127	Carbofuran ¹⁰	Carbofuran	1563-66-2	0.006; or CMBST, CHOXD, BIODG or CARBN	0.14; or CMBST
P128	Mexacarbate ¹⁰	Mexacarbate	315-18-4	0.056; or CMBST, CHOXD, BIODG or CARBN	1.4; or CMBST
P185	Tirpate ¹⁰	Tirpate	26419-73-8	0.056; or CMBST, CHOXD, BIODG or CARBN	0.28; or CMBST
P188	Physostigmine salicylate ¹⁰	Physostigmine salicylate	57-64-7	0.056; or CMBST, CHOXD, BIODG or CARBN	1.4; or CMBST
P189	Carbosulfan ¹⁰	Carbosulfan	55285-14-8	0.028; or CMBST, CHOXD, BIODG or CARBN	1.4; or CMBST

<u> </u>	-12-0110, continued)			1	
P190	Metolcarb ¹⁰	Metolcarb	1129-41-5	0.056; or CMBST, CHOXD, BIODG or CARBN	1.4; or CMBST
P191	Dimetilan 10	Dimetilan	644-64-4	0.056; or CMBST, CHOXD, BIODG or CARBN	1.4; or CMBST
P192	Isolan ¹⁰	Isolan	119-38-0	0.056; or CMBST, CHOXD, BIODG or CARBN	1.4; or CMBST
P194	Oxamyl ¹⁰	Oxamyl	23135-22-0	0.056; or CMBST, CHOXD, BIODG or CARBN	0.28; or CMBST
P196	Manganese dimethyldithio- carbamate ¹⁰	Dithiocarbamates (total)	NA	0.028; or CMBST, CHOXD, BIODG or CARBN	28; or CMBST
P197	Formparanate ¹⁰	Formparanate	17702-57-7	0.056; or CMBST, CHOXD, BIODG or CARBN	1.4; or CMBST
P198	Formetanate hydrochloride ¹⁰	Formetanate hydrochloride	23422-53-9	0.056; or CMBST, CHOXD, BIODG or CARBN	1.4; or CMBST
P199	Methiocarb ¹⁰	Methiocarb	2032-65-7	0.056; or CMBST, CHOXD, BIODG or CARBN	1.4; or CMBST
P201	Promecarb ¹⁰	Promecarb	2631-37-0	0.056; or CMBST, CHOXD, BIODG or CARBN	1.4; or CMBST
P202	m-Cumenyl methylcarbamate ¹⁰	m-Cumenyl methylcarbamate	64-00-6	0.056; or CMBST, CHOXD, BIODG or CARBN	1.4; or CMBST
P203	Aldicarb sulfone 10	Aldicarb sulfone	1646-88-4	0.056; or CMBST, CHOXD, BIODG or CARBN	0.28; or CMBST
P204	Physostigmine ¹⁰	Physostigmine	57-47-6	0.056; or CMBST, CHOXD, BIODG or CARBN	1.4; or CMBST
P205	Ziram ¹⁰	Dithiocarbamates (total)	NA	0.028; or CMBST, CHOXD, BIODG or CARBN	28; or CMBST

U001	Acetaldehyde	Acetaldehyde	75-07-0	(WETOX or CHOXD) fb CARBN; or CMBST	CMBST
U002	Acetone	Acetone	67-64-1	0.28	160
U003	Acetonitrile	Acetonitrile	75-05-8	5.6	CMBST
		Acetonitrile; alternate ⁶ standard for nonwastewaters only	75-05-8	NA	38
U004	Acetophenone	Acetophenone	98-86-2	0.010	9.7
U005	2-Acetylaminofluorene	2-Acetylamino-fluorene	53-96-3	0.059	140
U006	Acetyl chloride	Acetyl Chloride	75-36-5	(WETOX or CHOXD) fb CARBN; or CMBST	CMBST
U007	Acrylamide	Acrylamide	79-06-1	(WETOX or CHOXD) fb CARBN; or CMBST	CMBST
U008	Acrylic acid	Acrylic acid	79-10-7	(WETOX or CHOXD) fb CARBN; or CMBST	CMBST
U009	Acrylonitrile	Acrylonitrile	107-13-1	0.24	84
U010	Mitomycin C	Mitomycin C	50-07-7	(WETOX or CHOXD) fb CARBN; or CMBST	CMBST
U011	Amitrole	Amitrole	61-82-5	(WETOX or CHOXD) fb CARBN; or CMBST	CMBST
U012	Aniline	Aniline	62-53-3	0.81	14

	-12-0110, continued)				
U014	Auramine	Auramine	492-80-8	(WETOX or CHOXD) fb CARBN; or CMBST	CMBST
U015	Azaserine	Azaserine	115-02-6	(WETOX or CHOXD) fb CARBN; or CMBST	CMBST
U016	Benz(c)acridine	Benz(c)acridine	225-51-4	(WETOX or CHOXD) fb CARBN; or CMBST	CMBST
U017	Benzal chloride	Benzal chloride	98-87-3	(WETOX or CHOXD) fb CARBN; or CMBST	CMBST
U018	Benz(a)anthracene	Benz(a)anthra-cene	56-55-3	0.059	3.4
U019	Benzene	Benzene	71-43-2	0.14	10
U020	Benzenesulfonyl chloride	Benzenesulfonyl chloride	98-09-9	(WETOX or CHOXD) fb CARBN; or CMBST	CMBST
U021	Benzidine	Benzidine	92-87-5	(WETOX or CHOXD) fb CARBN; or CMBST	CMBST
U022	Benzo(a)pyrene	Benzo(a)pyrene	50-32-8	0.061	3.4
U023	Benzotrichloride	Benzotrichloride	98-07-7	CHOXD; CHRED; CARBN; BIODG; or CMBST	CHOXD; CHRED; or CMBST
U024	bis(2-Chloroethoxy)methane	bis(2-Chloroethoxy)- methane	111-91-1	0.036	7.2
U025	bis(2-Chloroethyl)ether	bis(2-Chloroethyl)ether	111-44-4	0.033	6.0
U026	Chlornaphazine	Chlornaphazine	494-03-1	(WETOX or CHOXD) fb CARBN; or CMBST	CMBST

U027	bis(2-Chloroisopropyl)ether	bis(2-	39638-32-9	0.055	7.2
		Chloroisopropyl)ether			
U028	bis(2-Ethylhexyl) phthalate	bis(2-Ethylhexyl) phthalate	117-81-7	0.28	28
U029	Methyl bromide (Bromomethane)	Methyl bromide (Bromomethane)	74-83-9	0.11	15
U030	4-Bromophenyl phenyl ether	4-Bromophenyl phenyl ether	101-55-3	0.055	15
U031	n-Butyl alcohol	n-Butyl alcohol	71-36-3	5.6	2.6
U032	Calcium chromate	Chromium (Total)	7440-47-3	2.77	0.60 mg/l TCLP
U033	Carbon oxyfluoride	Carbon oxyfluoride	353-50-4	(WETOX or CHOXD) fb CARBN; or CMBST	CMBST
U034	Trichloroacetaldehyde (Chloral)	Trichloroacetal-dehyde (Chloral)	75-87-6	(WETOX or CHOXD) fb CARBN; or CMBST	CMBST
U035	Chlorambucil	Chlorambucil	305-03-3	(WETOX or CHOXD) fb CARBN; or CMBST	CMBST
U036	Chlordane	Chlordane (alpha and gamma isomers)	57-74-9	0.0033	0.26
U037	Chlorobenzene	Chlorobenzene	108-90-7	0.057	6.0
U038	Chlorobenzilate	Chlorobenzilate	510-15-6	0.10	CMBST
U039	p-Chloro-m-cresol	p-Chloro-m-cresol	59-50-7	0.018	14
U041	Epichlorohydrin (1-Chloro- 2,3-epoxypropane)	Epichlorohydrin (1- Chloro-2,3- epoxypropane)	106-89-8	(WETOX or CHOXD) fb CARBN; or CMBST	CMBST
U042	2-Chloroethyl vinyl ether	2-Chloroethyl vinyl ether	110-75-8	0.062	CMBST

	1-12-0110, continued)				T
U043	Vinyl chloride	Vinyl chloride	75-01-4	0.27	6.0
U044	Chloroform	Chloroform	67-66-3	0.046	6.0
U045	Chloromethane (Methyl chloride)	Chloromethane (Methyl chloride)	74-87-3	0.19	30
U046	Chloromethyl methyl ether	Chloromethyl methyl ether	107-30-2	(WETOX or CHOXD) fb CARBN; or CMBST	CMBST
U047	2-Chloronaphthalene	2-Chloronaphthal-ene	91-58-7	0.055	5.6
U048	2-Chlorophenol	2-Chlorophenol	95-57-8	0.044	5.7
U049	4-Chloro-o-toluidine hydrochloride	4-Chloro-o-toluidine hydrochloride	3165-93-3	(WETOX or CHOXD) fb CARBN; or CMBST	CMBST
U050	Chrysene	Chrysene	218-01-9	0.059	3.4
U051	Creosote	Naphthalene	91-20-3	0.059	5.6
		Pentachlorophe-nol	87-86-5	0.089	7.4
		Phenanthrene	85-01-8	0.059	5.6
		Pyrene	129-00-0	0.067	8.2
		Toluene	108-88-3	0.080	10
		Xylenes-mixed isomers (sum of o-, m-, and p- xylene concentrations)	1330-20-7	0.32	30
		Lead	7439-92-1	0.69	0.75 mg/l TCL
U052	Cresols (Cresylic acid)	o-Cresol	95-48-7	0.11	5.6

	m-Cresol (difficult to distinguish	108-39-4	0.77	5.6
	from p-cresol)			
	p-Cresol (difficult to distinguish from m-cresol)	106-44-5	0.77	5.6
	Cresol-mixed isomers (Cresylic acid) (sum of o-, m-, and p- cresol concentrations)	1319-77-3	0.88	11.2
Crotonaldehyde	Crotonaldehyde	4170-30-3	(WETOX or CHOXD) fb CARBN; or CMBST	CMBST
Cumene	Cumene	98-82-8	(WETOX or CHOXD) fb CARBN; or CMBST	CMBST
Cyclohexane	Cyclohexane	110-82-7	(WETOX or CHOXD) fb CARBN; or CMBST	CMBST
Cyclohexanone	Cyclohexanone	108-94-1	0.36	CMBST
	Cyclohexanone; alternate ⁶ standard for nonwastewaters only	108-94-1	NA	0.75 mg/l TCLP
Cyclophosphamide	Cyclophospha-mide	50-18-0	CARBN; or CMBST	CMBST
Daunomycin	Daunomycin	20830-81-3	(WETOX or CHOXD) fb CARBN; or CMBST	CMBST
DDD	o,p'-DDD	53-19-0	0.023	0.087
	p,p'-DDD	72-54-8	0.023	0.087
	Cyclohexane Cyclohexanone Cyclophosphamide Daunomycin	Cyclohexanone Cyclohexanone Cyclophosphamide Cyclophosphamide Daunomycin Daunomycin Cresol-mixed isomers (Cresylic acid) (sum of o-, m-, and p-cresol concentrations) Crotonaldehyde Crotonaldehyde	(difficult to distinguish from m-cresol) Cresol-mixed isomers (Cresylic acid) (sum of o-, m-, and p-cresol concentrations) Crotonaldehyde 4170-30-3 Cumene Cumene Cyclohexane 110-82-7 Cyclohexanone 108-94-1 Cyclohexanone; alternate ⁶ standard for nonwastewaters only 108-94-1 Cyclophosphamide Cyclophospha-mide 50-18-0 Daunomycin Daunomycin 20830-81-3 DDD o,p'-DDD 53-19-0	Cresol-mixed isomers (Cresylic acid) (sum of o-, m-, and p-cresol concentrations)

U061	DDT (continued)	o-p'-DDT	789-02-6	0.0039	0.087
1 000	וטטו	0-p-001	703-02-0	0.0039	0.007
		p,p'-DDT	50-29-3	0.0039	0.087
		o,p'-DDD	53-19-0	0.023	0.087
		p,p'-DDD	72-54-8	0.023	0.087
		o,p'-DDE	3424-82-6	0.031	0.087
		p,p'-DDE	72-55-9	0.031	0.087
U062	Diallate	Diallate	2303-16-4	(WETOX or CHOXD) fb CARBN; or CMBST	CMBST
U063	Dibenz(a,h)anthracene	Dibenz(a,h)anthracene	53-70-3	0.055	8.2
U064	Dibenz(a,i)pyrene	Dibenz(a,i)pyrene	189-55-9	(WETOX or CHOXD) fb CARBN; or CMBST	CMBST
U066	1,2-Dibromo-3- chloropropane	1,2-Dibromo-3- chloropropane	96-12-8	0.11	15
U067	Ethylene dibromide (1,2- Dibromoethane)	Ethylene dibromide (1,2-Dibromoethane)	106-93-4	0.028	15
U068	Dibromomethane	Dibromomethane	74-95-3	0.11	15
U069	Di-n-butyl phthalate	Di-n-butyl phthalate	84-74-2	0.057	28
U070	o-Dichlorobenzene	o-Dichlorobenzene	95-50-1	0.088	6.0
U071	m-Dichlorobenzene	m-Dichlorobenzene	541-73-1	0.036	6.0
U072	p-Dichlorobenzene	p-Dichlorobenzene	106-46-7	0.090	6.0
U073	3,3'-Dichlorobenzidine	3,3'-Dichlorobenzidine	91-94-1	(WETOX or CHOXD) fb CARBN; or CMBST	CMBST

U074	1,4-Dichloro-2-butene	cis-1,4-Dichloro-2- butene	1476-11-5	(WETOX or CHOXD) fb CARBN; or CMBST	CMBST
		trans-1,4-Dichloro-2- butene	764-41-0	(WETOX or CHOXD) fb CARBN; or CMBST	CMBST
U075	Dichlorodifluoromethane	Dichlorodifluoromethane	75-71-8	0.23	7.2
U076	1,1-Dichloroethane	1,1-Dichloroethane	75-34-3	0.059	6.0
U077	1,2-Dichloroethane	1,2-Dichloroethane	107-06-2	0.21	6.0
U078	1,1-Dichloroethylene	1,1-Dichloroethylene	75-35-4	0.025	6.0
U079	1,2-Dichloroethylene	trans-1,2- Dichloroethylene	156-60-5	0.054	30
U080	Methylene chloride	Methylene chloride	75-09-2	0.089	30
U081	2,4-Dichlorophenol	2,4-Dichlorophenol	120-83-2	0.044	14
U082	2,6-Dichlorophenol	2,6-Dichlorophenol	87-65-0	0.044	14
U083	1,2-Dichloropropane	1,2-Dichloropropane	78-87-5	0.85	18
U084	1,3-Dichloropropylene	cis-1,3- Dichloropropylene	10061-01-5	0.036	18
		trans-1,3- Dichloropropylene	10061-02-6	0.036	18
U085	1,2:3,4-Diepoxybutane	1,2:3,4-Diepoxybutane	1464-53-5	(WETOX or CHOXD) fb CARBN; or CMBST	CMBST
U086	N,N'-Diethylhydrazine	N,N'-Diethylhydrazine	1615-80-1	CHOXD; CHRED; CARBN; BIODG; or CMBST	CHOXD; CHRED; or CMBST

U087	O,O-Diethyl S- methyldithiophosphate	O,O-Diethyl S- methyldithiophosphate	3288-58-2	CARBN; or CMBST	CMBST
U088	Diethyl phthalate	Diethyl phthalate	84-66-2	0.20	28
U089	Diethyl stilbestrol	Diethyl stilbestrol	56-53-1	(WETOX or CHOXD) fb CARBN; or CMBST	CMBST
U090	Dihydrosafrole	Dihydrosafrole	94-58-6	(WETOX or CHOXD) fb CARBN; or CMBST	CMBST
U091	3,3'-Dimethoxybenzidine	3,3'- Dimethoxybenzidine	119-90-4	(WETOX or CHOXD) fb CARBN; or CMBST	CMBST
U092	Dimethylamine	Dimethylamine	124-40-3	(WETOX or CHOXD) fb CARBN; or CMBST	CMBST
U093	p-Dimethylaminoazobenzene	p- Dimethylaminoazobenz ene	60-11-7	0.13	CMBST
U094	7,12- Dimethylbenz(a)anthracene	7,12-Dimethylbenz(a) anthracene	57-97-6	(WETOX or CHOXD) fb CARBN; or CMBST	CMBST
U095	3,3'-Dimethylbenzidine	3,3'-Dimethylbenzidine	119-93-7	(WETOX or CHOXD) fb CARBN; or CMBST	CMBST
U096	alpha, alpha-Dimethyl benzyl hydroperoxide	alpha, alpha-Dimethyl benzyl hydroperoxide	80-15-9	CHOXD; CHRED; CARBN; BIODG; or CMBST	CHOXD; CHRED; or CMBST
U097	Dimethylcarbamoyl chloride	Dimethylcarba-moyl chloride	79-44-7	(WETOX or CHOXD) fb CARBN; or CMBST	CMBST
U098	1,1-Dimethylhydrazine	1,1-Dimethylhydrazine	57-14-7	CHOXD; CHRED; CARBN; BIODG; or CMBST	CHOXD; CHRED; or CMBST

U099	-12-0110, continued) 1,2-Dimethylhydrazine	1,2-Dimethylhydrazine	540-73-8	CHOXD;	CHOXD; CHRED;
				CHRED; CARBN; BIODG; or CMBST	or CMBST
U101	2,4-Dimethylphenol	2,4-Dimethylphenol	105-67-9	0.036	14
U102	Dimethyl phthalate	Dimethyl phthalate	131-11-3	0.047	28
U103	Dimethyl sulfate	Dimethyl sulfate	77-78-1	CHOXD; CHRED; CARBN; BIODG; or CMBST	CHOXD; CHRED; or CMBST
U105	2,4-Dinitrotoluene	2,4-Dinitrotoluene	121-14-2	0.32	140
U106	2,6-Dinitrotoluene	2,6-Dinitrotoluene	606-20-2	0.55	28
U107	Di-n-octyl phthalate	Di-n-octyl phthalate	117-84-0	0.017	28
U108	1,4-Dioxane	1,4-Dioxane	123-91-1	(WETOX or CHOXD) fb CARBN; or CMBST	CMBST
		1,4-Dioxane; alternate ⁶	123-91-1	12.0	170
U109	1,2-Diphenylhydrazine	1,2-Diphenylhydrazine	122-66-7	CHOXD; CHRED; CARBN; BIODG; or CMBST	CHOXD; CHRED; or CMBST
		1,2-Diphenylhydraz-ine; alternate ⁶ standard for wastewaters only	122-66-7	0.087	NA
U110	Dipropylamine	Dipropylamine	142-84-7	(WETOX or CHOXD) fb CARBN; or CMBST	CMBST
U111	Di-n-propylnitrosamine	Di-n-propylnitrosamine	621-64-7	0.40	14

	1-12-0110, continued)			, · · · · · · · · · · · · · · · · · · ·	
U112	Ethyl acetate	Ethyl acetate	141-78-6	0.34	33
U113	Ethyl acrylate	Ethyl acrylate	140-88-5	(WETOX or CHOXD) fb CARBN; or CMBST	CMBST
U114	Ethylenebisdithio-carbamic acid salts and esters	Ethylenebisdithio- carbamic acid	111-54-6	(WETOX or CHOXD) fb CARBN; or CMBST	CMBST
U115	Ethylene oxide	Ethylene oxide	75-21-8	(WETOX or CHOXD) fb CARBN; or CMBST	CHOXD; or CMBST
		Ethylene oxide; alternate ⁶ standard for wastewaters only	75-21-8	0.12	NA
U116	Ethylene thiourea	Ethylene thiourea	96-45-7	(WETOX or CHOXD) fb CARBN; or CMBST	CMBST
U117	Ethyl ether	Ethyl ether	60-29-7	0.12	160
U118	Ethyl methacrylate	Ethyl methacrylate	97-63-2	0.14	160
U119	Ethyl methane sulfonate	Ethyl methane sulfonate	62-50-0	(WETOX or CHOXD) fb CARBN; or CMBST	CMBST
U120	Fluoranthene	Fluoranthene	206-44-0	0.068	3.4
U121	Trichloromonofluoromethane	Trichloromonofluoromet hane	75-69-4	0.020	30
U122	Formaldehyde	Formaldehyde	50-00-0	(WETOX or CHOXD) fb CARBN; or CMBST	CMBST
U123	Formic acid	Formic acid	64-18-6	(WETOX or CHOXD) fb CARBN; or CMBST	CMBST

(Kule 0400	-12-0110, continued)				
U124	Furan	Furan	110-00-9	(WETOX or CHOXD) fb CARBN; or CMBST	CMBST
U125	Furfural	Furfural	98-01-1	(WETOX or CHOXD) fb CARBN; or CMBST	CMBST
U126	Glycidylaldehyde	Glycidylaldehyde	765-34-4	(WETOX or CHOXD) fb CARBN; or CMBST	CMBST
U127	Hexachlorobenzene	Hexachloroben-zene	118-74-1	0.055	10
U128	Hexachlorobutadiene	Hexachlorobuta-diene	87-68-3	0.055	5.6
U129	Lindane	alpha-BHC	319-84-6	0.00014	0.066
		beta-BHC	319-85-7	0.00014	0.066
		delta-BHC	319-86-8	0.023	0.066
		gamma-BHC (Lindane)	58-89-9	0.0017	0.066
U130	Hexachlorocyclopenta-diene	Hexachlorocyclo- pentadiene	77-47-4	0.057	2.4
U131	Hexachloroethane	Hexachloroethane	67-72-1	0.055	30
U132	Hexachlorophene	Hexachlorophene	70-30-4	(WETOX or CHOXD) fb CARBN; or CMBST	CMBST
U133	Hydrazine	Hydrazine	302-01-2	CHOXD; CHRED; CARBN; BIODG; or CMBST	CHOXD; CHRED; or CMBST
U134	Hydrogen fluoride	Fluoride (measured in wastewaters only)	7664-39-3	35	ADGAS fb NEUTR; or NEUTR
U135	Hydrogen Sulfide	Hydrogen Sulfide	7783-06-4	CHOXD; CHRED, or CMBST	CHOXD; CHRED; or CMBST.

U136	Cacodylic acid	Arsenic	7440-38-2	1.4	5.0 mg/l TCLP
U137	Indeno(1,2,3-cd)pyrene	Indeno(1,2,3-cd)pyrene	193-39-5	0.0055	3.4
U138	lodomethane	lodomethane	74-88-4	0.19	65
U140	Isobutyl alcohol	Isobutyl alcohol	78-83-1	5.6	170
U141	Isosafrole	Isosafrole	120-58-1	0.081	2.6
U142	Kepone	Kepone	143-50-8	0.0011	0.13
U143	Lasiocarpine	Lasiocarpine	303-34-4	(WETOX or CHOXD) fb CARBN; or CMBST	CMBST
U144	Lead acetate	Lead	7439-92-1	0.69	0.75 mg/l TCLF
U145	Lead phosphate	Lead	7439-92-1	0.69	0.75 mg/l TCLI
U146	Lead subacetate	Lead	7439-92-1	0.69	0.75 mg/l TCLF
U147	Maleic anhydride	Maleic anhydride	108-31-6	(WETOX or CHOXD) fb CARBN; or CMBST	CMBST
U148	Maleic hydrazide	Maleic hydrazide	123-33-1	(WETOX or CHOXD) fb CARBN; or CMBST	CMBST
U149	Malononitrile	Malononitrile	109-77-3	(WETOX or CHOXD) fb CARBN; or CMBST	CMBST
U150	Melphalan	Melphalan	148-82-3	(WETOX or CHOXD) fb CARBN; or CMBST	CMBST
U151	U151 (mercury) nonwastewaters that contain greater than or equal to 260 mg/kg total mercury.	Mercury	7439-97-6	NA	RMERC

1 (ale 0400-	12-0110, continued)			7	
	U151 (mercury) nonwastewaters that contain less than 260 mg/kg total mercury and that are residues from RMERC only.	Mercury	7439-97-6	NA	0.20 mg/l TCLP
	U151 (mercury) nonwastewaters that contain less than 260 mg/kg total mercury and that are not residues from RMERC.	Mercury	7439-97-6	NA	0.025 mg/l TCLP
	All U151 (mercury) wastewaters.	Mercury	7439-97-6	0.15	NA
	Elemental Mercury Contaminated with Radioactive Materials	Mercury	7439-97-6	NA	AMLGM
U152	Methacrylonitrile	Methacrylonitrile	126-98-7	0.24	84
U153	Methanethiol	Methanethiol	74-93-1	(WETOX or CHOXD) fb CARBN; or CMBST	CMBST
U154	Methanol	Methanol	67-56-1	(WETOX or CHOXD) fb CARBN; or CMBST	CMBST
		Methanol; alternate ⁶ set of standards for both wastewaters and nonwastewaters	67-56-1	5.6	0.75 mg/l TCLP
U155	Methapyrilene	Methapyrilene	91-80-5	0.081	1.5
U156	Methyl chlorocarbonate	Methyl chlorocarbonate	79-22-1	(WETOX or CHOXD) fb CARBN; or CMBST	CMBST
U157	3-Methylcholanthrene	3-Methylcholanth-rene	56-49-5	0.0055	15
U158	4,4'-Methylene bis(2- chloroaniline)	4,4'-Methylene bis(2- chloroaniline)	101-14-4	0.50	30

U159	Methyl ethyl ketone	Methyl ethyl ketone	78-93-3	0.28	36
U160	Methyl ethyl ketone peroxide	Methyl ethyl ketone peroxide	1338-23-4	CHOXD; CHRED; CARBN; BIODG; or CMBST	CHOXD; CHRED; or CMBST
U161	Methyl isobutyl ketone	Methyl isobutyl ketone	108-10-1	0.14	33
U162	Methyl methacrylate	Methyl methacrylate	80-62-6	0.14	160
U163	N-Methyl N'-nitro N- nitrosoguanidine	N-Methyl N'-nitro N- nitrosoguanidine	70-25-7	(WETOX or CHOXD) fb CARBN; or CMBST	CMBST
U164	Methylthiouracil	Methylthiouracil	56-04-2	(WETOX or CHOXD) fb CARBN; or CMBST	CMBST
U165	Naphthalene	Naphthalene	91-20-3	0.059	5.6
U166	1,4-Naphthoquinone	1,4-Naphthoquinone	130-15-4	(WETOX or CHOXD) fb CARBN; or CMBST	CMBST
U167	1-Naphthylamine	1-Naphthylamine	134-32-7	(WETOX or CHOXD) fb CARBN; or CMBST	CMBST
U168	2-Naphthylamine	2-Naphthylamine	91-59-8	0.52	CMBST
U169	Nitrobenzene	Nitrobenzene	98-95-3	0.068	14
U170	p-Nitrophenol	p-Nitrophenol	100-02-7	0.12	29
U171	2-Nitropropane	2-Nitropropane	79-46-9	(WETOX or CHOXD) fb CARBN; or CMBST	CMBST
U172	N-Nitrosodi-n-butylamine	N-Nitrosodi-n- butylamine	924-16-3	0.40	17

U173	N-Nitrosodiethanolamine	N- Nitrosodiethanolamine	1116-54-7	(WETOX or CHOXD) fb CARBN; or CMBST	CMBST
U174	N-Nitrosodiethylamine	N-Nitrosodiethyla-mine	55-18-5	0.40	28
U176	N-Nitroso-N-ethylurea	N-Nitroso-N-ethylurea	759-73-9	(WETOX or CHOXD) fb CARBN; or CMBST	CMBST
U177	N-Nitroso-N-methylurea	N-Nitroso-N-methylurea	684-93-5	(WETOX or CHOXD) fb CARBN; or CMBST	CMBST
U178	N-Nitroso-N-methylurethane	N-Nitroso-N- methylurethane	615-53-2	(WETOX or CHOXD) fb CARBN; or CMBST	CMBST
U179	N-Nitrosopiperidine	N-Nitrosopiperidine	100-75-4	0.013	35
U180	N-Nitrosopyrrolidine	N-Nitrosopyrrolidine	930-55-2	0.013	35
U181	5-Nitro-o-toluidine	5-Nitro-o-toluidine	99-55-8	0.32	28
U182	Paraldehyde	Paraldehyde	123-63-7	(WETOX or CHOXD) fb CARBN; or CMBST	CMBST
U183	Pentachlorobenzene	Pentachloroben-zene	608-93-5	0.055	10
U184	Pentachloroethane	Pentachloroeth-ane	76-01-7	(WETOX or CHOXD) fb CARBN; or CMBST	CMBST
		Pentachloroethane; alternate ⁶ standards for both wastewaters and nonwastewaters	76-01-7	0.055	6.0

U185	Pentachloronitrobenzene	Pentachloronitro- benzene	82-68-8	0.055	4.8
U186	1,3-Pentadiene	1,3-Pentadiene	504-60-9	(WETOX or CHOXD) fb CARBN; or CMBST	CMBST
U187	Phenacetin	Phenacetin	62-44-2	0.081	16
U188	Phenol	Phenol	108-95-2	0.039	6.2
U189	Phosphorus sulfide	Phosphorus sulfide	1314-80-3	CHOXD; CHRED; or CMBST	CHOXD; CHRED or CMBST
U190	Phthalic anhydride (measured as Phthalic acid or Terephthalic acid)	Phthalic anhydride (measured as Phthalic acid or Terephthalic acid)	100-21-0	0.055	28
		Phthalic anhydride (measured as Phthalic acid or Terephthalic acid)	85-44-9	0.055	28
U191	2-Picoline	2-Picoline	109-06-8	(WETOX or CHOXD) fb CARBN; or CMBST	CMBST
U192	Pronamide	Pronamide	23950-58-5	0.093	1.5
U193	1,3-Propane sultone	1,3-Propane sultone	1120-71-4	(WETOX or CHOXD) fb CARBN; or CMBST	CMBST
U194	n-Propylamine	n-Propylamine	107-10-8	(WETOX or CHOXD) fb CARBN; or CMBST	CMBST
U196	Pyridine	Pyridine	110-86-1	0.014	16
U197	p-Benzoquinone	p-Benzoquinone	106-51-4	(WETOX or CHOXD) fb CARBN; or CMBST	CMBST

	1-12-0110, continued)				1
U200	Reserpine	Reserpine	50-55-5	(WETOX or CHOXD) fb CARBN; or CMBST	CMBST
U201	Resorcinol	Resorcinol	108-46-3	(WETOX or CHOXD) fb CARBN; or CMBST	CMBST
U203	Safrole	Safrole	94-59-7	0.081	22
U204	Selenium dioxide	Selenium	7782-49-2	0.82	5.7 mg/l TCLP
U205	Selenium sulfide	Selenium	7782-49-2	0.82	5.7 mg/l TCLP
U206	Streptozotocin	Streptozotocin	18883-66-4	(WETOX or CHOXD) fb CARBN; or CMBST	CMBST
U207	1,2,4,5-Tetrachlorobenzene	1,2,4,5- Tetrachlorobenzene	95-94-3	0.055	14
U208	1,1,1,2-Tetrachloroethane	1,1,1,2- Tetrachloroethane	630-20-6	0.057	6.0
U209	1,1,2,2-Tetrachloroethane	1,1,2,2- Tetrachloroethane	79-34-5	0.057	6.0
U210	Tetrachloroethylene	Tetrachloroethy-lene	127-18-4	0.056	6.0
U211	Carbon tetrachloride	Carbon tetrachloride	56-23-5	0.057	6.0
U213	Tetrahydrofuran	Tetrahydrofuran	109-99-9	(WETOX or CHOXD) fb CARBN; or CMBST	CMBST
U214	Thallium (I) acetate	Thallium (measured in wastewaters only)	7440-28-0	1.4	RTHRM; or STABL
U215	Thallium (I) carbonate	Thallium (measured in wastewaters only)	7440-28-0	1.4	RTHRM; or STABL
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•)-12-0110, continued)		ı	1	ī
U216	Thallium (I) chloride	Thallium (measured in wastewaters only)	7440-28-0	1.4	RTHRM; or STABL
U217	Thallium (I) nitrate	Thallium (measured in wastewaters only)	7440-28-0	1.4	RTHRM; or STABL
U218	Thioacetamide	Thioacetamide	62-55-5	(WETOX or CHOXD) fb CARBN; or CMBST	CMBST
U219	Thiourea	Thiourea	62-56-6	(WETOX or CHOXD) fb CARBN; or CMBST	CMBST
U220	Toluene	Toluene	108-88-3	0.080	10
U221	Toluenediamine	Toluenediamine	25376-45-8	CARBN; or CMBST	CMBST
U222	o-Toluidine hydrochloride	o-Toluidine hydrochloride	636-21-5	(WETOX or CHOXD) fb CARBN; or CMBST	CMBST
U223	Toluene diisocyanate	Toluene diisocyanate	26471-62-5	CARBN; or CMBST	CMBST
U225	Bromoform (Tribromomethane)	Bromoform (Tribromometh-ane)	75-25-2	0.63	15
U226	1,1,1-Trichloroethane	1,1,1-Trichloroethane	71-55-6	0.054	6.0
U227	1,1,2-Trichloroethane	1,1,2-Trichloroethane	79-00-5	0.054	6.0
U228	Trichloroethylene	Trichloroethylene	79-01-6	0.054	6.0
U234	1,3,5-Trinitrobenzene	1,3,5-Trinitrobenzene	99-35-4	(WETOX or CHOXD) fb CARBN; or CMBST	CMBST
U235	tris-(2,3-Dibromopropyl)- phosphate	tris-(2,3- Dibromopropyl)- phosphate	126-72-7	0.11	0.10

U236	Trypan Blue	Trypan Blue	72-57-1	(WETOX or CHOXD) fb	CMBST
				CARBN; or CMBST	
U237	Uracil mustard	Uracil mustard	66-75-1	(WETOX or CHOXD) fb CARBN; or CMBST	CMBST
U238	Urethane (Ethyl carbamate)	Urethane (Ethyl carbamate)	51-79-6	(WETOX or CHOXD) fb CARBN; or CMBST	CMBST
U239	Xylenes	Xylenes-mixed isomers (sum of o-, m-, and p-xylene concentrations)	1330-20-7	0.32	30
U240	2,4-D (2,4- Dichlorophenoxyacetic acid)	2,4-D (2,4- Dichlorophenoxy-acetic acid)	94-75-7	0.72	10
	2,4-D (2,4- Dichlorophenoxyacetic acid) salts and esters		NA	(WETOX or CHOXD) fb CARBN; or CMBST	CMBST
U243	Hexachloropropylene	Hexachloropropy-lene	1888-71-7	0.035	30
U244	Thiram	Thiram	137-26-8	(WETOX or CHOXD) fb CARBN; or CMBST	CMBST
U246	Cyanogen bromide	Cyanogen bromide	506-68-3	CHOXD; WETOX; or CMBST	CHOXD; WETOX; or CMBST
U247	Methoxychlor	Methoxychlor	72-43-5	0.25	0.18
U248	Warfarin, & salts, when present at concentrations of 0.3% or less	Warfarin	81-81-2	(WETOX or CHOXD) fb CARBN; or CMBST	CMBST
U249	Zinc phosphide, Zn ₃ P ₂ , when present at concentrations of 10% or less	Zinc Phosphide	1314-84-7	CHOXD; CHRED; or CMBST	CHOXD; CHRED; or CMBST
U271	Benomyl ¹⁰	Benomyl	17804-35-2	0.056; or CMBST, CHOXD, BIODG or CARBN	1.4; or CMBST

U278	Bendiocarb ¹⁰	Bendiocarb	22781-23-3	0.056; or	1.4; or CMBST
0210	Definitional D	Dendiocald	22101-20-3	CMBST, CHOXD, BIODG or CARBN	1. 4 , 01 ONIDO1
U279	Carbaryl ¹⁰	Carbaryl	63-25-2	0.006; or CMBST, CHOXD, BIODG or CARBN	0.14; or CMBST
U280	Barban ¹⁰	Barban	101-27-9	0.056; or CMBST, CHOXD, BIODG or CARBN	1.4; or CMBST
U328	o-Toluidine	o-Toluidine	95-53-4	CMBST; or CHOXD fb (BIODG or CARBN); or BIODG fb CARBN.	CMBST
U353	p-Toluidine	p-Toluidine	106-49-0	CMBST; or CHOXD fb (BIODG or CARBN); or BIODG fb CARBN	CMBST
U359	2-Ethoxyethanol	2-Ethoxyethanol	110-80-5	CMBST; or CHOXD fb (BIODG or CARBN); or BIODG fb CARBN	CMBST
U364	Bendiocarb phenol 10	Bendiocarb phenol	22961-82-6	0.056; or CMBST, CHOXD, BIODG or CARBN	1.4; or CMBST
U367	Carbofuran phenol 10	Carbofuran phenol	1563-38-8	0.056; or CMBST, CHOXD, BIODG or CARBN	1.4; or CMBST
U372	Carbendazim ¹⁰	Carbendazim	10605-21-7	0.056; or CMBST, CHOXD, BIODG or CARBN	1.4; or CMBST
U373	Propham ¹⁰	Propham	122-42-9	0.056; or CMBST, CHOXD, BIODG or CARBN	1.4; or CMBST
U387	Prosulfocarb ¹⁰	Prosulfocarb	52888-80-9	0.042; or CMBST, CHOXD, BIODG or CARBN	1.4; or CMBST

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U389	Triallate ¹⁰	Triallate	2303-17-5	0.042; or CMBST, CHOXD, BIODG or CARBN	1.4; or CMBST
U394	A2213 ¹⁰	A2213	30558-43-1	0.042; or CMBST, CHOXD, BIODG or CARBN	1.4; or CMBST
U395	Diethylene glycol, dicarbamate 10	Diethylene glycol, dicarbamate	5952-26-1	0.056; or CMBST, CHOXD, BIODG or CARBN	1.4; or CMBST
U404	Triethylamine ¹⁰	Triethylamine	121-44-8	0.081; or CMBST, CHOXD, BIODG or CARBN	1.5; or CMBST
U409	Thiophanate-methyl ¹⁰	Thiophanate-methyl	23564-05-8	0.056; or CMBST, CHOXD, BIODG or CARBN	1.4; or CMBST
U410	Thiodicarb ¹⁰	Thiodicarb	59669-26-0	0.019; or CMBST, CHOXD, BIODG or CARBN	1.4; or CMBST
U411	Propoxur ¹⁰	Propoxur	114-26-1	0.056; or CMBST, CHOXD, BIODG or CARBN	1.4; or CMBST

FOOTNOTES TO TREATMENT STANDARDS TABLE

- The waste descriptions provided in this table do not replace waste descriptions in Rule 0400-12-01-.02. Descriptions of Treatment/Regulatory Subcategories are provided, as needed, to distinguish between applicability of different standards.
- CAS means Chemical Abstract Services. When the waste code and/or regulated constituents are described as a combination of a chemical with its salts and/or esters, the CAS number is given for the parent compound only.
- Concentration standards for wastewaters are expressed in mg/L and are based on analysis of composite samples.
- All treatment standards expressed as a Technology Code or combination of Technology Codes are explained in detail in subparagraph (3)(c) of this rule Table 1 Technology Codes and Descriptions of Technology-Based Standards.
- Except for Metals (EP or TCLP) and Cyanides (Total and Amenable) the nonwastewater treatment standards expressed as a concentration were established, in part, based upon incineration in units operated in accordance with the technical requirements of Rule 0400-12-01-.06(15), or Rule 0400-12-01-.05(15), or based upon combustion in fuel substitution units operating in accordance with applicable technical requirements. A facility may comply with these treatment standards according to provisions in part 4 of this subparagraph. All concentration standards for nonwastewaters are based on analysis of grab samples.

- Where an alternate treatment standard or set of alternate standards has been indicated, a facility may comply with this alternate standard, but only for the Treatment/Regulatory Subcategory or physical form (i.e., wastewater and/or nonwastewater) specified for that alternate standard.
- Both Cyanides (Total) and Cyanides (Amenable) for nonwastewaters are to be analyzed using Method 9010C or 9012B, found in "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", EPA Publication SW-846, listed in 40 CFR 260.11; Rule 0400-12-01-.01(2)(b)1, with a sample size of 10 grams and a distillation time of one hour and 15 minutes.
- These wastes, when rendered nonhazardous and then subsequently managed in CWA or CWAequivalent systems, are not subject to treatment standards. (See subparts (1)(a)3(iii) and (iv) of this rule.)
- These wastes, when rendered nonhazardous and then subsequently injected in a Class I SDWA well, are not subject to treatment standards. (See 40 CFR 148.1(d).)
- The treatment standard for this waste may be satisfied by either meeting the constituent concentrations in this table or by treating the waste by the specified technologies: combustion, as defined by the technology code CMBST at subparagraph (c) Table 1 of this paragraph for nonwastewaters; and, biodegradation as defined by the technology code BIODG, carbon adsorption as defined by the technology code CARBN, chemical oxidation as defined by the technology code CHOXD, or combustion as defined as technology code CMBST at subparagraph (c) Table 1 of this paragraph for wastewaters.
- For these wastes, the definition of CMBST is limited to: (1) combustion units operating under Rule 0400-12-01-.09, (2) combustion units permitted under Rule 0400-12-01-.06(15), or (3) combustion units operating under Rule 0400-12-01-.05(15), which have obtained a determination of equivalent treatment under part (c)2 of this paragraph.
- Disposal of K175 wastes that have complied with all applicable treatment standards of this subparagraph must also be macroencapsulated in accordance with subparagraph (f) of this paragraph Table 1 unless the waste is placed in:
 - A hazardous waste (Subtitle C) monofill containing only K175 wastes that meet all applicable treatment standards of this subparagraph; or
 - (ii) A dedicated hazardous waste (Subtitle C) landfill cell in which all other wastes being codisposed are at pH ≤6.0.
 - (b) Treatment Standards Expressed as Concentrations in Waste Extract [40 CFR 268.41]

For the requirements previously found in this paragraph and for treatment standards in Table CCWE-Constituent Concentrations in Waste Extracts, refer to subparagraph (a) of this paragraph.

(c) Treatment Standards Expressed as Specified Technologies [40 CFR 268.42]

(Note: For the requirements previously found in this paragraph in Table 2-Technology-Based Standards By RCRA Waste Code, and Table 3-Technology-Based Standards for Specific Radioactive Hazardous Mixed Waste, refer to subparagraph (a) of this paragraph.)

1. The following wastes in the table in subparagraph (a) of this paragraph "Treatment Standards for Hazardous Wastes," for which standards are expressed as a treatment method rather than a concentration level, must be treated using the technology or technologies specified in the table entitled

"Technology Codes and Description of Technology-Based Standards" in this subparagraph.

TABLE 1.ª-TECHNOLOGY CODES AND DESCRIPTION OF TECHNOLOGY-BASED STANDARDS

Technology Code	Description of Technology-based Standards
ADGAS:	Venting of compressed gases into an absorbing or reacting media (i.e., solid or liquid)-venting can be accomplished through physical release utilizing valves/piping; physical penetration of the container; and/or penetration through detonation.
AMLGM:	Amalgamation of liquid, elemental mercury contaminated with radioactive materials utilizing inorganic reagents such as copper, zinc, nickel, gold, and sulfur that result in a nonliquid, semi-solid amalgam and thereby reducing potential emissions of elemental mercury vapors to the air.
BIODG:	Biodegradation of organics or non-metallic inorganics (i.e., degradable inorganics that contain the elements of phosphorus, nitrogen, and sulfur) in units operated under either aerobic or anaerobic conditions such that a surrogate compound or indicator parameter has been substantially reduced in concentration in the residuals (e.g., Total Organic Carbon can often be used as an indicator parameter for the biodegradation of many organic constituents that cannot be directly analyzed in wastewater residues).
CARBN:	Carbon adsorption (granulated or powdered) of non-metallic inorganics, organo-metallics, and/or organic constituents, operated such that a surrogate compound or indicator parameter has not undergone breakthrough (e.g., Total Organic Carbon can often be used as an indicator parameter for the adsorption of many organic constituents that cannot be directly analyzed in wastewater residues). Breakthrough occurs when the carbon has become saturated with the constituent (or indicator parameter) and substantial change in adsorption rate associated with that constituent occurs.
CHOXD:	Chemical or electrolytic oxidation utilizing the following oxidation reagents (or waste reagents) or combinations of reagents: (1) Hypochlorite (e.g. bleach); (2) chlorine; (3) chlorine dioxide; (4) ozone or UV (ultraviolet light) assisted ozone; (5) peroxides; (6) persulfates; (7) perchlorates; (8) permanganates; and/or (9) other oxidizing reagents of equivalent efficiency, performed in units operated such that a surrogate compound or indicator parameter has been substantially reduced in concentration in the residuals (e.g., Total Organic Carbon can often be used as an indicator parameter for the oxidation of many organic constituents that cannot be directly analyzed in wastewater residues). Chemical oxidation specifically includes what is commonly referred to as alkaline chlorination.
CHRED:	Chemical reduction utilizing the following reducing reagents (or waste reagents) or combinations of reagents: (1) Sulfur dioxide; (2) sodium, potassium, or alkali salts or sulfites, bisulfites, metabisulfites, and polyethylene glycols (e.g., NaPEG and KPEG); (3) sodium hydrosulfide; (4) ferrous salts; and/or (5) other reducing reagents of equivalent efficiency, performed in units operated such that a surrogate compound or indicator parameter has been substantially reduced in concentration in the residuals (e.g., Total Organic Halogens can often be used as an indicator parameter for the reduction of many halogenated organic constituents that cannot be directly analyzed in wastewater residues). Chemical reduction is commonly used for the reduction of hexavalent chromium to the trivalent state.

CMBST:

High temperature organic destruction technologies, such as combustion in incinerators, boilers, or industrial furnaces operated in accordance with the applicable requirements of Rules 0400-12-01-.05(15), .06(15) or .09(8) and in other units operated in accordance with applicable technical operating requirements; and certain non-combustive technologies, such as the Catalytic Extraction Process.

DEACT:

Deactivation to remove the hazardous characteristics of a waste due to is ignitability, corrosivity, and/or reactivity.

FSUBS:

Fuel substitution in units operated in accordance with applicable technical operating requirements.

HLVIT:

Vitrification of high level mixed radioactive wastes in units in compliance with all applicable radioactive protection requirements under control of the Nuclear Regulatory Commission.

IMERC:

Incineration of wastes containing organics and mercury in units operated in accordance with the technical operating requirements of Rules 0400-12-01-.06(15) and .05(15). All wastewater and nonwastewater residues derived from this process must then comply with the corresponding treatment standards per waste code with consideration of any applicable subcategories (e.g., High or Low Mercury Subcategories).

INCIN:

Incineration in units operated in accordance with the technical operating requirements of Rules 0400-12-01-.05(15) and .06(15).

LLEXT:

Liquid-liquid extraction (often referred to as solvent extraction) of organics from liquid wastes into an immiscible solvent for which the hazardous constituents have a greater solvent affinity, resulting in an extract high in organics that must undergo either incineration, reuse as a fuel, or other recovery/reuse and a raffinate (extracted liquid waste) proportionately low in organics that must undergo further treatment as specified in the standard.

MACRO:

Macroencapsulation with surface coating materials such as polymeric organics (e.g. resins and plastics) or with a jacket of inert inorganic materials to substantially reduce surface exposure to potential leaching media. Macroencapsulation specifically does not include any material that would be classified as a tank or container according to Rule 0400-12-01-.01(2)(a).

NEUTR:

Neutralization with the following reagents (or waste reagents) or combinations of reagents: (1) Acids; (2) bases; or (3) water (including wastewaters) resulting in a pH greater than 2 but less than 12.5 as measured in the aqueous residuals.

NLDBR:

No land disposal based on recycling.

POLYM:

Formation of complex high-molecular weight solids through polymerization of monomers in high-TOC D001 non-wastewaters which are chemical components in the manufacture of plastics.

PRECP:

Chemical precipitation of metals and other inorganics as insoluble precipitates of oxides, hydroxides, carbonates, sulfides, sulfates, chlorides, flourides, or phosphates. The following reagents (or waste reagents) are typically used alone or in combination: (1) Lime (i.e., containing oxides and/or hydroxides of calcium and/or magnesium; (2) caustic (i.e., sodium and/or potassium hydroxides; (3) soda ash (i.e., sodium carbonate); (4) sodium sulfide; (5) ferric sulfate or ferric chloride; (6) alum; or (7) sodium sulfate. Additional flocculating, coagulation or similar reagents/processes that enhance sludge dewatering

characteristics are not precluded from use.

RBERY: Thermal recovery of Beryllium.

RCGAS: Recovery/reuse of compressed gases including techniques such as

reprocessing of the gases for reuse/resale; filtering/adsorption of impurities;

remixing for direct reuse or resale; and use of the gas as a fuel source.

RCORR: Recovery of acids or bases utilizing one or more of the following recovery

technologies: (1) Distillation (i.e., thermal concentration); (2) ion exchange; (3) resin or solid adsorption; (4) reverse osmosis; and/or (5) incineration for the recovery of acid-Note: this does not preclude the use of other physical phase separation or concentration techniques such as decantation, filtration (including ultrafiltration), and centrifugation, when used in conjunction with the

above listed recovery technologies.

RLEAD: Thermal recovery of lead in secondary lead smelters.

RMERC: Retorting or roasting in a thermal processing unit capable of volatilizing

mercury and subsequently condensing the volatilized mercury for recovery. The retorting or roasting unit (or facility) must be subject to one or more of the following: (a) a National Emissions Standard for Hazardous Air Pollutants (NESHAP) for mercury; (b) a Best Available Control Technology (BACT) or a Lowest Achievable Emission Rate (LAER) standard for mercury imposed pursuant to a Prevention of Significant Deterioration (PSD) permit; or (c) a state permit that establishes emission limitations (within meaning of section 302 of the Clean Air Act) for mercury. All wastewater and nonwastewater residues derived from this process must then comply with the corresponding treatment standards per waste code with consideration of any applicable

subcategories (e.g., High or Low Mercury Subcategories).

RMETL: Recovery of metals or inorganics utilizing one or more of the following direct

physical/removal technologies: (1) Ion exchange; (2) resin or solid (i.e., zeolites) adsorption; (3) reverse osmosis; (4) chelation/solvent extraction; (5) freeze crystallization; (6) ultrafiltration and/or (7) simple precipitation (i.e., crystallization) - Note: This does not preclude the use of other physical phase separation or concentration techniques such as decantation, filtration (including ultrafiltration), and centrifugation, when used in conjunction with the

above listed recovery technologies.

RORGS: Recovery of organics utilizing one or more of the following technologies: (1)

Distillation; (2) thin film evaporation; (3) steam stripping; (4) carbon adsorption; (5) critical fluid extraction; (6) liquid-liquid extraction; (7) precipitation/crystallization (including freeze crystallization); or (8) chemical phase separation techniques (i.e., addition of acids, bases, demulsifiers, or similar chemicals); - Note: this does not preclude the use of other physical phase separation techniques such as a decantation, filtration (including ultrafiltration), and centrifugation, when used in conjunction with the above listed recovery

technologies.

RTHRM: Thermal recovery of metals or inorganics from nonwastewaters in units

identified as industrial furnaces according to 0400-12-01-.01(2)(a) under the

definition of "industrial furnaces".

RZINC: Resmelting in high temperature metal recovery units for the purpose of

recovery of zinc.

STABL: Stabilization with the following reagents (or waste reagents) or combinations of

reagents: (1) Portland cement; or (2) lime/pozzolans (e.g., fly ash and cement kiln dust) - this does not preclude the addition of reagents (e.g., iron salts,

silicates, and clays) designed to enhance the set/cure time and/or compressive strength, or to overall reduce the leachability of the metal or inorganic.

SSTRP:

Steam stripping of organics from liquid wastes utilizing direct application of steam to the wastes operated such that liquid and vapor flow rates, as well as temperature and pressure ranges, have been optimized, monitored, and maintained. These operating parameters are dependent upon the design parameters of the unit, such as the number of separation stages and the internal column design, thus resulting in a condensed extract high in organics that must undergo either incineration, reuse as a fuel, or other recovery/reuse and an extracted wastewater that must undergo further treatment as specified in the standard.

WETOX:

Wet air oxidation performed in units operated such that a surrogate compound or indicator parameter has been substantially reduced in concentration in the residuals (e.g., Total Organic Carbon can often be used as an indicator parameter for the oxidation of many organic constituents that cannot be directly analyzed in wastewater residues).

WTRRX:

Controlled reaction with water for highly reactive inorganic or organic chemicals with precautionary controls for protection of workers from potential violent reactions as well as precautionary controls for potential emissions of toxic/ignitable levels of gases released during the reaction.

FOOTNOTE:^a All rule citations contained herein are from Chapter 0400-12-01.

(Note 1: When a combination of these technologies (i.e., a treatment train) is specified as a single treatment standard, the order of application is specified in Table 2 of this subparagraph by indicating the five letter technology code that must be applied first, then the designation "fb." (An abbreviation for "followed by"), then the five letter technology code for the technology that must be applied next, and so on.)

(Note 2: When more than one technology (or treatment train) are specified as alternative treatment standards, the five letter technology codes (or the treatment trains) are separated by a semicolon (;) with the last technology preceded by the word "or". This indicates that any one of these BDAT technologies or treatment trains can be used for compliance with the standard.)

2. (Reserved) [40 CFR 268.42(b)]

(Note: The authority for implementing 40 CFR 268.42(b) that any person may apply to the Administrator to use an alternative treatment method that can achieve performance equivalent to that achieved by methods specified in parts 1, 3, and 4 of this subparagraph [paragraphs (a), (c), and (d) of 40 CFR 268.42] for wastes or specified in Table 1 of paragraph (f) of this rule [Table 1 of 40 CFR 268.45] for hazardous debris and that, if the Administrator approves, such approval must be stated in writing and may contain provisions and conditions as the Administrator deems appropriate and with which the applicant must comply remains with the U.S. Environmental Protection Agency.)

- 3. As an alternative to the otherwise applicable treatment standards of this paragraph, lab packs are eligible for land disposal provided the following requirements are met:
 - (i) The lab packs comply with the applicable provisions of Rule 0400-12-01-.06(14)(g) and Rule 0400-12-01-.05(14)(g):

- (ii) The lab pack does not contain any of the wastes listed in Appendix IV to subparagraph (5)(a) of this rule;
- (iii) The lab packs are incinerated in accordance with the requirements of Rule 0400-12-01-.06(15) or Rule 0400-12-01-.05(15); and
- (iv) Any incinerator residues from lab packs containing D004, D005, D006, D007, D008, D010, and D011 are treated in compliance with the applicable treatment standards specified for such wastes in this paragraph.
- 4. Radioactive hazardous mixed wastes are subject to the treatment standards in subparagraph (a) of this paragraph. Where treatment standards are specified for radioactive mixed wastes in the Table of Treatment Standards, those treatment standards will govern. Where there is no specific treatment standard for radioactive mixed waste, the treatment standard for the hazardous waste (as designated by EPA waste code) applies. Hazardous debris containing radioactive waste is subject to the treatment standards specified in subparagraph (f) of this paragraph.
- (d) Treatment Standards Expressed as Waste Concentrations [40 CFR 268.43]

For the requirements previously found in this subparagraph and for treatment standards in Table CCW-Constituent Concentrations in Wastes, refer to subparagraph (a) of this paragraph.

(e) (Reserved) Variance From a Treatment Standard [40 CFR 268.44]

(Note: The authority for implementing this subparagraph [40 CFR 268.44] Variance from a Treatment Standard remains with the U.S. Environmental Protection Agency.)

- (f) Treatment Standards for Hazardous Debris [40 CFR 268.45]
 - 1. Treatment standards

Hazardous debris must be treated prior to land disposal as follows unless Department determines under Rule 0400-12-01-.02(1)(c)6(ii) that the debris is no longer contaminated with hazardous waste or the debris is treated to the wastespecific treatment standard provided in this subparagraph for the waste contaminating the debris:

(i) General

Hazardous debris must be treated for each "contaminant subject to treatment" defined by part 2 of this subparagraph using the technology or technologies identified in Table 1 of this subparagraph.

(ii) Characteristic debris

Hazardous debris that exhibits the characteristic of ignitability, corrosivity, or reactivity identified under Rules 0400-12-01-.02(3)(b), (c) and (d), respectively, must be deactivated by treatment using one of the technologies identified in Table 1 of this subparagraph.

(iii) Mixtures of debris types

The treatment standards of Table 1 in this subparagraph must be achieved for each type of debris contained in a mixture of debris types. If an immobilization technology is used in a treatment train, it must be the last treatment technology used.

(iv) Mixtures of contaminant types

Debris that is contaminated with two or more contaminants subject to treatment identified under part 2 of this subparagraph must be treated for each contaminant using one or more treatment technologies identified in Table 1 of this subparagraph. If an immobilization technology is used in a treatment train, it must be the last treatment technology used.

(v) Waste PCBs

Hazardous debris that is also a waste PCB under 40 CFR part 761 is subject to the requirements of either 40 CFR part 761 or the requirements of this subparagraph, whichever are more stringent.

2. Contaminants subject to treatment

Hazardous debris must be treated for each "contaminant subject to treatment." The contaminants subject to treatment must be determined as follows:

(i) Toxicity characteristic debris

The contaminants subject to treatment for debris that exhibits the Toxicity Characteristic (TC) by Rule 0400-12-01-.02(3)(e) are those EP constituents for which the debris exhibits the TC toxicity characteristic.

(ii) Debris contaminated with listed waste

The contaminants subject to treatment for debris that is contaminated with a prohibited listed hazardous waste are those constituents or wastes for which treatment standards are established for the waste under subparagraph (a) of this paragraph.

(iii) Cyanide reactive debris

Hazardous debris that is reactive because of cyanide must be treated for cyanide.

3. Conditioned exclusion of treated debris

Hazardous debris that has been treated using one of the specified extraction or destruction technologies in Table 1 of this subparagraph and that does not exhibit a characteristic of hazardous waste identified under Rule 0400-12-01-.02(3) after treatment is not a hazardous waste and need not be managed in a subtitle C facility. Hazardous debris contaminated with a listed waste that is treated by an immobilization technology specified in Table 1 is a hazardous waste and must be managed in a subtitle C facility.

4. Treatment residuals

(i) General requirements

Except as provided by subparts (ii) and (iv) of this part:

- Residue from the treatment of hazardous debris must be separated from the treated debris using simple physical or mechanical means; and
- (II) Residue from the treatment of hazardous debris is subject to the waste-specific treatment standards provided by this paragraph for the waste contaminating the debris.

(ii) Nontoxic debris

Residue from the deactivation of ignitable, corrosive, or reactive characteristic hazardous debris (other than cyanide-reactive) that is not contaminated with a contaminant subject to treatment defined by part 2 of this subparagraph, must be deactivated prior to land disposal and is not subject to the waste-specific treatment standards of this paragraph.

(iii) Cyanide-reactive debris

Residue from the treatment of debris that is reactive because of cyanide must meet the treatment standards for D003 in "Treatment Standards for Hazardous Wastes" at subparagraph (a) of this paragraph.

(iv) Ignitable nonwastewater residue

Ignitable nonwastewater residue containing equal to or greater than 10% total organic carbon is subject to the technology specified in the treatment standard for D001: Ignitable Liquids.

(v) Residue from spalling

Layers of debris removed by spalling are hazardous debris that remain subject to the treatment standards of this subparagraph.

TABLE 1.-ALTERNATIVE TREATMENT STANDARDS FOR HAZARDOUS DEBRIS 1

Technology Description	Performance and/or Design and Operating Standard	Contaminant Restrictions ²
A. Extraction Technologies:		
1. Physical Extraction		
a. Abrasive Blasting: Removal of contaminated debris surface layers using water and/or air pressure to propel a solid media (e.g., steel shot, aluminum oxide grit, plastic beads).	Glass, Metal, Plastic, Rubber: Treatment to a clean debris surface. ³ Brick, Cloth, Concrete, Paper, Pavement, Rock, Wood: Removal of at least 0.6 cm of the surface layer; treatment to a clean debris surface. ³	All Debris: None.
b. Scarification, Grinding, and Planing: Process utilizing	Same as above.	Same as above.

striking piston heads, saws, or rotating grinding wheels such that contaminated debris surface layers are removed.

- c. Spalling: Drilling or chipping holes at appropriate locations and depth in the contaminated debris surface and applying a tool which exerts a force on the sides of those holes such that the surface layer is removed. The surface layer removed remains hazardous debris subject to the debris treatment standards.
- d. Vibratory Finishing: Process utilizing scrubbing media, flushing fluid, and oscillating energy such that hazardous contaminants or contaminated debris surface layers are removed.⁴
- e. High Pressure Steam and Water Sprays: Application of water or steam sprays of sufficient temperature, pressure, residence time, agitation, surfactants, and detergents to remove hazardous contaminants from debris surfaces or to remove contaminated debris surface layers.

2. Chemical Extraction

a. Water Washing and Spraying: Application of water sprays or water baths of sufficient temperature, pressure, residence time, agitation, surfactants, acids, bases, and detergents to remove hazardous contaminants from debris surfaces and surface pores or to remove contaminated debris surface layers.

b. Liquid Phase Solvent Extraction: Removal of hazardous contaminants from Same as above.

All Debris: Treatment to a clean debris surface;³

Brick, Cloth, Concrete, Paper, Pavement, Rock, Wood: Debris must be no more than 1.2 cm (1/2 inch) in one dimension (i.e., thickness limit,⁵ except that this thickness limit may be waived under an "Equivalent Technology" approval under part (3)(c)2 of Rule 0400-12-01-.10;⁸ debris surfaces must be in contact with water solution for at least 15 minutes

Same as above.

Brick, Cloth, Concrete, Paper, Pavement, Rock, Wood:
Contaminant must be soluble to at least 5% by weight in water solution or 5% by weight in emulsion; if debris is contaminated with a dioxinlisted waste,⁶ an "Equivalent Technology" approval under part (3)(c)2 of Rule 0400-12-01-.10 must be obtained.⁸

Brick, Cloth, Concrete, Paper, Pavement, Rock, Wood: Same as above, except that

debris surfaces and surface pores by applying a nonaqueous liquid or liquid solution which causes the hazardous contaminants to enter the liquid phase and be flushed away from the debris along with the liquid or liquid solution while using appropriate agitation, temperature, and residence time.⁴

c. Vapor Phase Solvent
Extraction: Application of an organic vapor using sufficient agitation, residence time, and temperature to cause hazardous contaminants on contaminated debris surfaces and surface pores to enter the vapor phase and be flushed away with the organic vapor.⁴

3. Thermal Extraction

- a. High Temperature Metals Recovery: Application of sufficient heat, residence time, mixing, fluxing agents, and/or carbon in a smelting, melting, or refining furnace to separate metals from debris.
- b. Thermal Desorption: Heating in an enclosed chamber under either oxidizing or nonoxidizing atmospheres at sufficient temperature and residence time to vaporize hazardous contaminants from contaminated surfaces and surface pores and to remove the contaminants from the heating chamber in a gaseous exhaust gas.⁷

contaminant must be soluble to at least 5% by weight in the solvent.

Same as above, except that brick, cloth, concrete, paper, pavement, rock and wood surfaces must be in contact with the organic vapor for at least 60 minutes.

Same as above.

For refining furnaces, treated debris must be separated from treatment residuals using simple physical or mechanical means, and, prior to further treatment, such residuals must meet the waste-specific treatment standards for organic compounds in the waste contaminating the debris.

All Debris: Obtain an "Equivalent Technology" approval under part (3)(c)2 of Rule 0400-12-01-.10;8 treated debris must be separated from treatment residuals using simple physical or mechanical means,9 and, prior to further treatment, such residue must meet the waste-specific treatment standards for organic compounds in the waste contaminating the debris.

Brick, Cloth, Concrete, Paper, Pavement, Rock, Wood: Debris must be no more than 10 cm (4 inches) in one dimension (i.e., thickness limit),⁵ except that this thickness limit may be waived under the "Equivalent Technology" approval Debris contaminated with a dioxin-listed waste:⁵ Obtain an "Equivalent Technology" approval under part (3)(c)2 of Rule 0400-12-01-.10.8

All Debris: Metals other than mercury.

All Debris: Metal contaminants.

(Rule 0400-12-01-.10, continued)

- B. Destruction Technologies:
- 1. Biological Destruction (Biodegradation): Removal of hazardous contaminants from debris surfaces and surface pores in an aqueous solution and biodegradation of organic or nonmetallic inorganic compounds (i.e., inorganics that contain phosphorus, nitrogen, or sulfur) in units operated under either aerobic or anaerobic conditions.

All Debris: Obtain an "Equivalent Technology" approval under part (3)(c)2 of Rule 0400-12-01-.10;8 treated debris must be separated from treatment residuals using simple physical or mechanical means,9 and, prior to further treatment, such residue must meet the waste-specific treatment standards for organic compounds in the waste contaminating the debris.

Brick, Cloth, Concrete, Paper, Pavement, Rock, Wood: Debris must be no more than 1.2 cm (1/2 inch) in one dimension (i.e., thickness limit),⁵ except that this thickness limit may be waived under the "Equivalent Technology" approval

All Debris: Metal contaminants.

2. Chemical Destruction

a. Chemical Oxidation: Chemical or electrolytic oxidation utilizing the following oxidation reagents (or waste reagents) or combination of reagents-(1) hypochlorite (e.g., bleach); (2) chlorine; (3) chlorine dioxide; (4) ozone or UV (ultraviolet light) assisted ozone; (5) peroxides; (6) persulfates; (7) perchlorates; (8) permanganates; and/or (9) other oxidizing reagents of equivalent destruction efficiency.4 Chemical oxidation specifically includes what is referred to as alkaline chlorination.

b. Chemical Reduction: Chemical reaction utilizing the following reducing reagents (or waste reagents) or combination of reagents: (1) sulfur dioxide; (2) sodium, potassium, or alkali All Debris: Obtain an "Equivalent Technology" approval under part (3)(c)2 of Rule 0400-12-01-.10;8 treated debris must be separated from treatment residuals using simple physical or mechanical means,9 and, prior to further treatment, such residue must meet the waste-specific treatment standards for organic compounds in the waste contaminating the debris.

Brick, Cloth, Concrete, Paper, Pavement, Rock, Wood: Debris must be no more than 1.2 cm (1/2 inch) in one dimension (i.e., thickness limit),⁵ except that this thickness limit may be waived under the "Equivalent Technology" approval

Same as above.

Same as above.

salts of sulfites, bisulfites, and metabisulfites, and polyethylene glycols (e.g., NaPEG and KPEG); (3) sodium hydrosulfide; (4) ferrous salts; and/or (5) other reducing reagents of equivalent efficiency.⁴

3. Thermal Destruction: Treatment in an incinerator operating in accordance with paragraph (15) of Rule 0400-12-01-.05 or paragraph (15) of Rule 0400-12-01-.06, a boiler or industrial furnace operating in accordance with paragraph (8) of Rule 0400-12-01-.09, or other thermal treatment unit operated in accordance with paragraph (27) of Rule 0400-12-01-.06 or paragraph (16) of Rule 0400-12-01-.05 but excluding for purposes of these debris treatment standards Thermal Desorption units.

Desorption units.

C. Immobilization Technologies:

- 1. Macroencapsulation:
 Application of surface coating materials such as polymeric organics (e.g., resins and plastics) or use of a jacket of inert inorganic materials to substantially reduce surface exposure to potential leaching media.
- 2. Microencapsulation:
 Stabilization of the debris with
 the following reagents (or waste
 reagents) such that the
 leachability of the hazardous
 contaminants is reduced: (1)
 Portland cement; or (2) lime/
 pozzolans (e.g., fly ash and
 cement kiln dust). Reagents
 (e.g., iron salts, silicates, and
 clays) may be added to
 enhance the set/cure time
 and/or compressive strength, or
 to reduce the leachability of the
 hazardous constituents.⁵
- 3. Sealing: Application of an appropriate material which adheres tightly to the debris

Treated debris must be separated from treatment residuals using simple physical or mechanical means, and, prior to further treatment, such residue must meet the wastespecific treatment standards for organic compounds in the waste contaminating the debris.

Brick, Concrete, Glass, Metal, Pavement, Rock, Metal: Metals other than mercury, except that there are no metal restrictions for vitrification.

Debris contaminated with a dioxin-listed waste.⁶ Obtain an "Equivalent Technology" approval under subparagraph (3)(c) of Rule 0400-12-01-.10,⁸ except that this requirement does not apply to vitrification.

Encapsulating material must completely encapsulate debris and be resistant to degradation by the debris and its contaminants and materials into which it may come into contact after placement (leachate, other waste, microbes).

Leachability of the hazardous contaminants must be reduced.

None.

None.

Sealing must avoid exposure of the debris surface to potential leaching media and sealant None.

surface to avoid exposure of the surface to potential leaching media. When necessary to effectively seal the surface, sealing entails pretreatment of the debris surface to remove foreign matter and to clean and roughen the surface. Sealing materials include epoxy, silicone, and urethane compounds, but paint may not be used as a sealant.

must be resistant to degradation by the debris and its contaminants and materials into which it may come into contact after placement (leachate, other waste, microbes).

FOOTNOTE:1

Hazardous debris must be treated by either these standards or the waste-specific treatment standards for the waste contaminating the debris. The treatment standards must be met for each type of debris contained in a mixture of debris types, unless the debris is converted into treatment residue as a result of the treatment process. Debris treatment residuals are subject to the waste-specific treatment standards for the waste contaminating the debris.

FOOTNOTE:2

Contaminant restriction means that the technology is not BDAT for that contaminant. If debris containing a restricted contaminant is treated by the technology, the contaminant must be subsequently treated by a technology for which it is not restricted in order to be land disposed (and excluded from Subtitle C regulation).

FOOTNOTE:3

"Clean debris surface" means the surface, when viewed without magnification, shall be free of all visible contaminated soil and hazardous waste except that residual staining from soil and waste consisting of light shadows, slight streaks, or minor discolorations, and soil and waste in cracks, crevices, and pits may be present provided that such staining and waste and soil in cracks, crevices, and pits shall be limited to no more than 5% of each square inch of surface area.

FOOTNOTE:4

Acids, solvents, and chemical reagents may react with some debris and contaminants to form hazardous compounds. For example, acid washing of cyanide-contaminated debris could result in the formation of hydrogen cyanide. Some acids may also react violently with some debris and contaminants, depending on the concentration of the acid and the type of debris and contaminants. Debris treaters should refer to the safety precautions specified in Material Safety Data Sheets for various acids to avoid applying an incompatible acid to a particular debris/contaminant combination. For example, concentrated sulfuric acid may react violently with certain organic compounds, such as acrylonitrile.

FOOTNOTE:5

If reducing the particle size of debris to meet the treatment standards results in material that no longer meets the 60 mm minimum particle size limit for debris, such material is subject to the waste-specific treatment standards for the waste contaminating the material, unless the debris has been cleaned and separated from contaminated soil and waste prior to size reduction. At a minimum, simple physical or mechanical means must be used to provide such cleaning and separation of nondebris materials to ensure that the debris surface is free of caked soil, waste, or other nondebris material.

FOOTNOTE:6

Dioxin-listed wastes are EPA Hazardous Waste numbers F020, F021, F022, F023, F026, and F027.

FOOTNOTE:7

Thermal desorption is distinguished from Thermal Destruction in that the primary purpose of Thermal Desorption is to volatilize contaminants and to remove them from the treatment chamber for subsequent destruction or other treatment.

FOOTNOTE:8

The demonstration "Equivalent Technology" under part (c)2 of this paragraph must document that the technology treats contaminants subject to treatment to a level equivalent to that required by the performance and design and operating standards for other technologies in this table such that residual levels of hazardous contaminants will not pose a hazard to human health and the environment absent management controls.

FOOTNOTE:9 Any soil, waste, and other nondebris material that remains on the debris surface (or remains mixed with the debris) after treatment is considered a treatment residual that must be separated from the debris using, at a minimum, simple physical or mechanical means. Examples of simple physical or mechanical means are vibratory or trommel screening or water washing. The debris surface need not be cleaned to a "clean debris surface" as defined in note 3 when separating treated debris from residue; rather, the surface must be free of caked soil, waste, or other nondebris material. Treatment residuals are subject to the waste-specific treatment standards for the waste contaminating the debris.

(g) Alternative Treatment Standards Based on HTMR [40 CFR 268.46]

For the treatment standards previously found in this subparagraph, refer to subparagraph (a) of this paragraph.

- (h) (RESERVED) [40 CFR 268.47]
- (i) Universal Treatment Standards [40 CFR 268.48]
 - 1. Table UTS identifies the hazardous constituents, along with the nonwastewater and wastewater treatment standard levels that are used to regulate most prohibited hazardous wastes with numerical limits. For determining compliance with treatment standards for underlying hazardous constituents as defined in part (1)(b)10 of this rule, these treatment standards may not be exceeded. Compliance with these treatment standards is measured by an analysis of grab samples, unless otherwise noted in the following Table UTS.

UNIVERSAL TREATME	NT STANDARDS (N	OTE: NA means ı	not applicable.)
REGULATED CONSTITUENT Common Name ⁶	CAS ¹ Number	Wastewater Standard	Nonwastewater Standard
		Concentration ² in mg/l	Concentration ³ in mg/kg unless noted as "mg/l TCLP"
Organic Constituents			
Acenaphthylene	208-96-8	0.059	3.4
Acenaphthene	83-32-9	0.059	3.4
Acetone	67-64-1	0.28	160
Acetonitrile	75-05-8	5.6	38
Acetophenone	96-86-2	0.010	9.7
2-Acetylaminofluorene	53-96-3	0.059	140

Acrolein	107-02-8	0.29	NA
Acrylamide	79-06-1	19	23
Acrylonitrile	107-13-1	0.24	84
Aldrin	309-00-2	0.021	0.066
4-Aminobiphenyl	92-67-1	0.13	NA
Aniline	62-53-3	0.81	14
o-Anisidine (2-methoxyaniline)	90-04-0	0.010	0.66
Anthracene	120-12-7	0.059	3.4
Aramite	140-57-8	0.36	NA
alpha-BHC	319-84-6	0.00014	0.066
beta-BHC	319-85-7	0.00014	0.066
delta-BHC	319-86-8	0.023	0.066
gamma-BHC	58-89-9	0.0017	0.066
Benzene	71-43-2	0.14	10
Benz(a)anthracene	56-55-3	0.059	3.4
Benzal chloride	98-87-3	0.055	6.0
Benzo(b)fluoranthene (difficult to distinguish from benzo(k)fluoranthene)	205-99-2	0.11	6.8
Benzo(k)fluoranthene (difficult to distinguish from benzo(b)fluoranthene)	207-08-9	0.11	6.8
Benzo(g,h,i)perylene	191-24-2	0.0055	1.8
Benzo(a)pyrene	50-32-8	0.061	3.4
Bromodichloromethane	75-27-4	0.35	15
Bromomethane/Methyl bromide	74-83-9	0.11	15
4-Bromophenyl phenyl ether	101-55-3	0.055	15
n-Butyl alcohol	71-36-3	5.6	2.6
Butyl benzyl phthalate	85-68-7	0.017	28
2-sec-Butyl-4,6- dinitrophenol/Dinoseb	88-85-7	0.066	2.5
Carbon disulfide	75-15-0	3.8	4.8 mg/l TCLP

1 10, continued)			
Carbon tetrachloride	56-23-5	0.057	6.0
Chlordane (alpha and gamma isomers)	57-74-9	0.0033	0.26
p-Chloroaniline	106-47-8	0.46	16
Chlorobenzene	108-90-7	0.057	6.0
Chlorobenzilate	510-15-6	0.10	NA
2-Chloro-1,3-butadiene	126-99-8	0.057	0.28
Chlorodibromomethane	124-48-1	0.057	15
Chloroethane	75-00-3	0.27	6.0
bis(2-Chloroethoxy)methane	111-91-1	0.036	7.2
bis(2-Chloroethyl)ether	111-44-4	0.033	6.0
Chloroform	67-66-3	0.046	6.0
bis(2-Chloroisopropyl)ether	39638-32-9	0.055	7.2
p-Chloro-m-cresol	59-50-7	0.018	14
2-Chloroethyl vinyl ether	110-75-8	0.062	NA
Chloromethane/Methyl chloride	74-87-3	0.19	30
2-Chloronaphthalene	91-58-7	0.055	5.6
2-Chlorophenol	95-57-8	0.044	5.7
3-Chloropropylene	107-05-1	0.036	30
Chrysene	218-01-9	0.059	3.4
p-Cresidine	120-71-8	0.010	0.66
o-Cresol	95-48-7	0.11	5.6
m-Cresol (difficult to distinguish from p-cresol)	108-39-4	0.77	5.6
p-Cresol (difficult to distinguish from m-cresol)	106-44-5	0.77	5.6
Cyclohexanone	108-94-1	0.36	0.75 mg/l TCLP
o,p'-DDD	53-19-0	0.023	0.087
p,p'-DDD	72-54-8	0.023	0.087
o,p'-DDE	3424-82-6	0.031	0.087
p,p'-DDE	72-55-9	0.031	0.087
		•	

10, continued) o,p'-DDT	789-02-6	0.0039	0.087
p,p'-DDT	50-29-3	0.0039	0.087
Dibenz(a,h)anthracene	53-70-3	0.055	8.2
, ,			
Dibenz(a,e)pyrene	192-65-4	0.061	NA
1,2-Dibromo-3-chloropropane	96-12-8	0.11	15
1,2-Dibromoethane/Ethylene dibromide	106-93-4	0.028	15
Dibromomethane	74-95-3	0.11	15
m-Dichlorobenzene	541-73-1	0.036	6.0
o-Dichlorobenzene	95-50-1	0.088	6.0
p-Dichlorobenzene	106-46-7	0.090	6.0
Dichlorodifluoromethane	75-71-8	0.23	7.2
1,1-Dichloroethane	75-34-3	0.059	6.0
1,2-Dichloroethane	107-06-2	0.21	6.0
1,1-Dichloroethylene	75-35-4	0.025	6.0
trans-1,2-Dichloroethylene	156-60-5	0.054	30
2,4-Dichlorophenol	120-83-2	0.044	14
2,6-Dichlorophenol	87-65-0	0.044	14
2,4-Dichlorophenoxyacetic acid/2,4-D	94-75-7	0.72	10
1,2-Dichloropropane	78-87-5	0.85	18
cis-1,3-Dichloropropylene	10061-01-5	0.036	18
trans-1,3-Dichloropropylene	10061-02-6	0.036	18
Dieldrin	60-57-1	0.017	0.13
Diethyl phthalate	84-66-2	0.20	28
p-Dimethylaminoazobenzene	60-11-7	0.13	NA
2, 4-Dimethylaniline (2, 4-xylidine)	95-68-1	0.010	0.66
2-4-Dimethyl phenol	105-67-9	0.036	14
Dimethyl phthalate	131-11-3	0.047	28
Di-n-butyl phthalate	84-74-2	0.057	28
1,4-Dinitrobenzene	100-25-4	0.32	2.3

1110, continued)			
4,6-Dinitro-o-cresol	534-52-1	0.28	160
2,4-Dinitrophenol	51-28-5	0.12	160
2,4-Dinitrotoluene	121-14-2	0.32	140
2,6-Dinitrotoluene	606-20-2	0.55	28
Di-n-octyl phthalate	117-84-0	0.017	28
Di-n-propylnitrosamine	621-64-7	0.40	14
1,4-Dioxane	123-91-1	12.0	170
Diphenylamine (difficult to distinguish from diphenylnitrosamine)	122-39-4	0.92	13
Diphenylnitrosamine (difficult to distinguish from diphenylamine)	86-30-6	0.92	13
1,2-Diphenylhydrazine	122-66-7	0.087	NA
Disulfoton	298-04-4	0.017	6.2
Endosulfan I	959-98-8	0.023	0.066
Endosulfan II	33213-65-9	0.029	0.13
Endosulfan sulfate	1031-07-8	0.029	0.13
Endrin	72-20-8	0.0028	0.13
Endrin aldehyde	7421-93-4	0.025	0.13
Ethyl acetate	141-78-6	0.34	33
Ethyl benzene	100-41-4	0.057	10
Ethyl cyanide/Propanenitrile	107-12-0	0.24	360
Ethyl ether	60-29-7	0.12	160
bis(2-Ethylhexyl)phthalate	117-81-7	0.28	28
Ethyl methacrylate	97-63-2	0.14	160
Ethylene oxide	75-21-8	0.12	NA
Famphur	52-85-7	0.017	15
Fluoranthene	206-44-0	0.068	3.4
Fluorene	86-73-7	0.059	3.4
Heptachlor	76-44-8	0.0012	0.066
Heptachlor epoxide	1024-57-3	0.016	0.066
		1	

D110, continued)			
1, 2, 3, 4, 6, 7, 8- Heptachlorodibenzo-p-dioxin	35822-46-9	0.000035	0.0025
(1, 2, 3, 4, 6, 7, 8-HpCDD)			
1, 2, 3, 4, 6, 7, 8- Heptachlorodibenzofuran (1, 2, 3, 4, 6, 7, 8-HpCDF)	67562-39-4	0.000035	0.0025
1, 2, 3, 4, 7, 8, 9- Heptachlorodibenzofuran (1, 2, 3, 4, 7, 8, 9-HpCDF)	55673-89-7	0.000035	0.0025
Hexachlorobenzene	118-74-1	0.055	10
Hexachlorobutadiene	87-68-3	0.055	5.6
Hexachlorocyclopentadiene	77-47-4	0.057	2.4
HxCDDs (All Hexachlorodibenzo-p-dioxins)	NA	0.000063	0.001
HxCDFs (All Hexachlorodibenzofurans)	NA	0.000063	0.001
Hexachloroethane	67-72-1	0.055	30
Hexachloropropylene	1888-71-7	0.035	30
Indeno (1,2,3-c,d) pyrene	193-39-5	0.0055	3.4
lodomethane	74-88-4	0.19	65
Isobutyl alcohol	78-83-1	5.6	170
Isodrin	465-73-6	0.021	0.066
Isosafrole	120-58-1	0.081	2.6
Kepone	143-50-0	0.0011	0.13
Methacrylonitrile	126-98-7	0.24	84
Methanol	67-56-1	5.6	0.75 mg/I TCLP
Methapyrilene	91-80-5	0.081	1.5
Methoxychlor	72-43-5	0.25	0.18
3-Methylcholanthrene	56-49-5	0.0055	15
4,4-Methylene bis(2-chloroaniline)	101-14-4	0.50	30
Methylene chloride	75-09-2	0.089	30
Methyl ethyl ketone	78-93-3	0.28	36
Methyl isobutyl ketone	108-10-1	0.14	33
Methyl methacrylate	80-62-6	0.14	160
Methyl methansulfonate	66-27-3	0.018	NA

1 10, continued)			
Methyl parathion	298-00-0	0.014	4.6
Naphthalene	91-20-3	0.059	5.6
2-Naphthylamine	91-59-8	0.52	NA
o-Nitroaniline	88-74-4	0.27	14
p-Nitroaniline	100-01-6	0.028	28
Nitrobenzene	98-95-3	0.068	14
5-Nitro-o-toluidine	99-55-8	0.32	28
o-Nitrophenol	88-75-5	0.028	13
p-Nitrophenol	100-02-7	0.12	29
N-Nitrosodiethylamine	55-18-5	0.40	28
N-Nitrosodimethylamine	62-75-9	0.40	2.3
N-Nitroso-di-n-butylamine	924-16-3	0.40	17
N-Nitrosomethylethylamine	10595-95-6	0.40	2.3
N-Nitrosomorpholine	59-89-2	0.40	2.3
N-Nitrosopiperidine	100-75-4	0.013	35
N-Nitrosopyrrolidine	930-55-2	0.013	35
1, 2, 3, 4, 6, 7, 8, 9- Octachlorodibenzo-p-dioxin (OCDD)	3268-87-9	0.000063	0.005
1, 2, 3, 4, 6, 7, 8, 9- Octachlorodibenzofuran (OCDF)	39001-02-0	0.000063	0.005
Parathion	56-38-2	0.014	4.6
Total PCBs (sum of all PCB isomers, or all Aroclors) ⁸	1336-36-3	0.10	10
Pentachlorobenzene	608-93-5	0.055	10
PeCDDs (All Pentachlorodibenzo-p-dioxins)	NA	0.000063	0.001
PeCDFs (All Pentachlorodibenzofurans)	NA	0.000035	0.001
Pentachloroethane	76-01-7	0.055	6.0
Pentachloronitrobenzene	82-68-8	0.055	4.8
Pentachlorophenol	87-86-5	0.089	7.4
Phenacetin	62-44-2	0.081	16

110, continuea)			
Phenanthrene	85-01-8	0.059	5.6
Phenol	108-95-2	0.039	6.2
1, 3-Phenylenediamine	108-45-2	0.010	0.66
Phorate	298-02-2	0.021	4.6
Phthalic acid	100-21-0	0.055	28
Phthalic anhydride	85-44-9	0.055	28
Pronamide	23950-58-5	0.093	1.5
Pyrene	129-00-0	0.067	8.2
Pyridine	110-86-1	0.014	16
Safrole	94-59-7	0.081	22
Silvex/2,4,5-TP	93-72-1	0.72	7.9
1,2,4,5-Tetrachlorobenzene	95-94-3	0.055	14
TCDDs (All Tetrachlorodibenzo-p-dioxins)	NA	0.000063	0.001
TCDFs (All Tetrachlorodibenzofurans)	NA	0.000063	0.001
1,1,1,2-Tetrachloroethane	630-20-6	0.057	6.0
1,1,2,2-Tetrachloroethane	79-34-5	0.057	6.0
Tetrachloroethylene	127-18-4	0.056	6.0
2,3,4,6-Tetrachlorophenol	58-90-2	0.030	7.4
Toluene	108-88-3	0.080	10
Toxaphene	8001-35-2	0.0095	2.6
Tribromomethane/Bromoform	75-25-2	0.63	15
1,2,4-Trichlorobenzene	120-82-1	0.055	19
1,1,1-Trichloroethane	71-55-6	0.054	6.0
1,1,2-Trichloroethane	79-00-5	0.054	6.0
Trichloroethylene	79-01-6	0.054	6.0
Trichloromonofluoromethane	75-69-4	0.020	30
2,4,5-Trichlorophenol	95-95-4	0.18	7.4
2,4,6-Trichlorophenol	88-06-2	0.035	7.4
2,4,5-Trichlorophenoxyacetic acid/2,4,5-T	93-76-5	0.72	7.9

1 10, continued)			
1,2,3-Trichloropropane	96-18-4	0.85	30
1,1,2-Trichloro-1,2,2- trifluoroethane	76-13-1	0.057	30
tris-(2,3-Dibromopropyl) phosphate	126-72-7	0.11	0.10
Vinyl chloride	75-01-4	0.27	6.0
Xylenes-mixed isomers (sum of o-, m-, and p-xylene concentrations)	1330-20-7	0.32	30
Inorganic Constituents			
Antimony	7440-36-0	1.9	1.15 mg/l TCLP
Arsenic	7440-38-2	1.4	5.0 mg/I TCLP
Barium	7440-39-3	1.2	21 mg/l TCLP
Beryllium	7440-41-7	0.82	1.22 mg/l TCLP
Cadmium	7440-43-9	0.69	0.11 mg/I TCLP
Chromium (Total)	7440-47-3	2.77	0.60 mg/l TCLP
Cyanides (Total) ⁴	57-12-5	1.2	590
Cyanides (Amenable) ⁴	57-12-5	0.86	30
Fluoride ⁵	16984-48-8	35	NA
Lead	7439-92-1	0.69	0.75 mg/I TCLP
Mercury - Nonwastewater from Retort	7439-97-6	NA	0.20 mg/l TCLP
Mercury - All Others	7439-97-6	0.15	0.025 mg/ITCLP
Nickel	7440-02-0	3.98	11 mg/l TCLP
Selenium ⁷	7782-49-2	0.82	5.7 mg/l TCLP
Silver	7440-22-4	0.43	0.14 mg/l TCLP
Sulfide ⁵	18496-25-8	14	NA

Thallium	7440-28-0	1.4	0.20 mg/l TCLP
Vanadium ⁵	7440-62-2	4.3	1.6 mg/I TCLP
Zinc ⁵	7440-66-6	2.61	4.3 mg/I TCLP

Footnotes to Universal Treatment Standards Table:

- 1 CAS means Chemical Abstract Services. When the waste code and/or regulated constituents are described as a combination of a chemical with its salts and/or esters, the CAS number is given for the parent compound only.
- Concentration standards for wastewaters are expressed in mg/L and are based on analysis of composite samples.
- Except for Metals (EP or TCLP) and Cyanides (Total and Amenable) the nonwastewater treatment standards expressed as a concentration were established, in part, based upon incineration in units operated in accordance with the technical requirements of Rule 0400-12-01-.06(15) or 0400-12-01-.05(15), or based upon combustion in fuel substitution units operating in accordance with applicable technical requirements. A facility may comply with these treatment standards according to provisions in part (a)4 of this paragraph. All concentration standards for nonwastewaters are based on analysis of grab samples.
- Both Cyanides (Total) and Cyanides (Amenable) for nonwastewaters are to be analyzed using Method 9010C or 9012B, found in "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", EPA Publication SW-846, listed in 40 CFR 260.11, Rule 0400-12-01-.02(2)(b)1, with a sample size of 10 grams and a distillation time of one hour and 15 minutes.
- These constituents are not "underlying hazardous constituents" in characteristic wastes, according to the definition at part (1)(b)10 of this rule.
- 6 RESERVED
- This constituent is not an underlying hazardous constituent as defined at Rule 0400-12-01-.10(1)(b)10 because its UTS level is greater than its TC level, thus a treated selenium waste would always be characteristically hazardous unless it is treated to below its characteristic level.
- This standard is temporarily deferred for soil exhibiting a hazardous characteristic due to D004--D011 only.
 - (j) Alternative LDR Treatment Standards for Contaminated Soil [40 CFR 268.49]

1. Applicability.

You must comply with LDRs prior to placing soil that exhibits a characteristic of hazardous waste, or exhibited a characteristic of hazardous waste at the time it was generated, into a land disposal unit. The following chart describes whether you must comply with LDRs prior to placing soil contaminated by listed hazardous waste into a land disposal unit:

If LDRs	And If LDRs	And If	Then You
applied to the listed waste when it contaminated the soil*	apply to the listed waste now		must comply with LDRs
didn't apply to the listed waste when it contaminated the soil*	apply to the listed waste now	the soil is determined to contain the listed waste when the soil is first generated	must comply with LDRs

didn't apply to the listed waste when it contaminated the soil*	apply to the listed waste now	the soil is determined not to contain the listed waste when the soil is first generated	needn't comply with LDRs
didn't apply to the listed waste when it contaminated the soil*	don't apply to the listed waste now		needn't comply with LDRs

^{*} For dates of LDR applicability, see Rule 0400-12-01-.10 Appendix VII. To determine the date any given listed hazardous waste contaminated any given volume of soil, use the last date any given listed hazardous waste was placed into any given land disposal unit or, in the case of an accidental spill, the date of the spill.

- 2. Prior to land disposal, contaminated soil identified by part 1 of this subparagraph as needing to comply with LDRs must be treated according to the applicable treatment standards specified in part 3 of this subparagraph or according to the Universal Treatment Standards specified in subparagraph (i) of this paragraph applicable to the contaminating listed hazardous waste and/or the applicable characteristic of hazardous waste if the soil is characteristic. The treatment standards specified in part 3 of this subparagraph and the Universal Treatment Standards may be modified through a treatment variance approved in accordance with subparagraph (e) of this paragraph.
- 3. Treatment standards for contaminated soils. Prior to land disposal, contaminated soil identified by part 1 of this subparagraph as needing to comply with LDRs must be treated according to all the standards specified in this part or according to the Universal Treatment Standards specified in subparagraph (i) of this paragraph.
 - (i) All soils. Prior to land disposal, all constituents subject to treatment must be treated as follows:
 - (I) For non-metals except carbon disulfide, cyclohexanone, and methanol, treatment must achieve 90 percent reduction in total constituent concentrations, except as provided by item (III) of this subpart.
 - (II) For metals and carbon disulfide, cyclohexanone, and methanol, treatment must achieve 90 percent reduction in constituent concentrations as measured in leachate from the treated media (tested according to the TCLP) or 90 percent reduction in total constituent concentrations (when a metal removal treatment technology is used), except as provided by item (III) of this subpart.
 - (III) When treatment of any constituent subject to treatment to a 90 percent reduction standard would result in a concentration less than 10 times the Universal Treatment Standard for that constituent, treatment to achieve constituent concentrations less than 10 times the universal treatment standard is not required. Universal Treatment Standards are identified in subparagraph (i) of this paragraph, Table UTS.
 - (ii) Soils that exhibit the characteristic of ignitability, corrosivity or reactivity. In addition to the treatment required by subpart (i) of this part, prior to land disposal, soils that exhibit the characteristic of ignitability, corrosivity, or reactivity must be treated to eliminate these characteristics.

- (iii) Soils that contain nonanalyzable constituents. In addition to the treatment requirements of subparts (i) and (ii) of this part, prior to land disposal, the following treatment is required for soils that contain nonanalyzable constituents:
 - (I) For soil that also contains only analyzable and nonanalyzable organic constituents, treatment of the analyzable organic constituents to the levels specified in subparts (i) and (ii) of this part; or,
 - (II) For soil that contains only nonanalyzable constituents, treatment by the method(s) specified in subparagraph (c) of this paragraph for the waste contained in the soil.
- 4. Constituents subject to treatment. When applying the soil treatment standards in part 3 of this subparagraph, constituents subject to treatment are any constituents listed in subparagraph (i) of this paragraph, Table UTS--Universal Treatment Standards that are reasonably expected to be present in any given volume of contaminated soil, except fluoride, selenium, sulfides, vanadium and zinc, and that are present at concentrations greater than ten times the universal treatment standard. PCBs are not constituent subject to treatment in any given volume of soil which exhibits the toxicity characteristic solely because of the presence of metals.
- 5. Management of treatment residuals. Treatment residuals from treating contaminated soil identified by part 1 of this subparagraph as needing to comply with LDRs must be managed as follows:
 - (i) Soil residuals are subject to the treatment standards of this subparagraph;
 - (ii) Non-soil residuals are subject to:
 - (I) For soils contaminated by listed hazardous waste, the RCRA Subtitle C standards applicable to the listed hazardous waste; and
 - (II) For soils that exhibit a characteristic of hazardous waste, if the nonsoil residual also exhibits a characteristic of hazardous waste, the treatment standards applicable to the characteristic hazardous waste.
- (4) Prohibitions on Storage [40 CFR 268 Subpart E]
 - (a) Prohibitions on Storage of Restricted Wastes [40 CFR 268.50]
 - 1. Except as provided in this subparagraph, the storage of hazardous wastes restricted from land disposal under paragraph (2) of this rule or federal RCRA section 3004 is prohibited, unless the following conditions are met:
 - (i) A generator stores such wastes in tanks, containers, or containment buildings on-site solely for the purpose of the accumulation of such quantities of hazardous waste as necessary to facilitate proper recovery, treatment, or disposal and the generator complies with the requirements in subparagraphs (1)(g) and (h) of Rule 0400-12-01-.03 and Rules 0400-12-01-.06 and 0400-12-01-.05.

- (ii) An owner/operator of a hazardous waste treatment, storage, or disposal facility stores such wastes in tanks, containers, or containment buildings solely for the purpose of the accumulation of such quantities of hazardous waste as necessary to facilitate proper recovery, treatment, or disposal and:
 - (I) Each container is clearly marked to identify its contents and with:
 - I. The words "Hazardous Waste";
 - II. The applicable EPA hazardous waste number(s) (hazardous waste codes) in paragraphs (3) and (4) of Rule 0400-12-01-.02; or use a nationally recognized electronic system, such as bar coding, to identify the EPA hazardous waste number(s);
 - III. An indication of the hazards of the contents (examples include, but are not limited to, the applicable hazardous waste characteristic(s) (i.e., ignitable, corrosive, reactive, toxic); hazard communication consistent with the Department of Transportation requirements at 49 CFR part 172 subpart E (labeling) or subpart F (placarding); a hazard statement or pictogram consistent with the Occupational Safety and Health Administration Hazard Communication Standard at 29 CFR 1910.1200; or a chemical hazard label consistent with the National Fire Protection Association code 704); and
 - IV. The date each period of accumulation begins;
 - (II) Each tank is clearly marked with a description of its contents, the quantity of each hazardous waste received, and the date each period of accumulation begins, or such information for each tank is recorded and maintained in the operating record at that facility. Regardless of whether the tank itself is marked, an owner/operator must comply with the operating record requirements specified in Rule 0400-12-01-.06(5)(d) or Rule 0400-12-01-.05(5)(d).
- (iii) A transporter stores manifested shipments of such wastes at a transfer facility for 10 days or less.
- (iv) A healthcare facility accumulates such wastes in containers on site solely for the purpose of the accumulation of such quantities of hazardous waste pharmaceuticals as necessary to facilitate proper recovery, treatment, or disposal and the healthcare facility complies with the applicable requirements in subparagraphs (16)(c) and (d) of Rule 0400-12-01-.09.
- (v) A reverse distributor accumulates such wastes in containers on site solely for the purpose of the accumulation of such quantities of hazardous waste pharmaceuticals as necessary to facilitate proper recovery, treatment, or disposal and the reverse distributor complies with subparagraph (16)(k) of Rule 0400-12-01-.09.
- An owner/operator of a treatment, storage or disposal facility may store such
 wastes for up to one year unless the Department can demonstrate that such
 storage was not solely for the purpose of accumulation of such quantities of
 hazardous waste as are necessary to facilitate proper recovery, treatment, or
 disposal.

- 3. An owner/operator of a treatment, storage or disposal facility may store such wastes beyond one year; however, the owner/operator bears the burden of proving that such storage was solely for the purpose of accumulation of such quantities of hazardous waste as are necessary to facilitate proper recovery, treatment, or disposal.
- 4. If a generator's waste is exempt from a prohibition on the type of land disposal utilized for the waste (for example, because of an approved case-by-case extension under subparagraph (1)(e) of this rule, an approved petition under subparagraph (1)(f) of this rule, or a national capacity variance under paragraph (2) of this rule), the prohibition in part 1 of this subparagraph does not apply during the period of such exemption.
- 5. The prohibition in part 1 of this subparagraph does not apply to hazardous wastes that meet the treatment standards specified under subparagraphs (3)(b), (c), and (d) of this rule or the treatment standards specified under the variance in subparagraph (3)(e) of this rule, or, where treatment standards have not been specified, is in compliance with the applicable prohibitions specified in subparagraph (2)(c) of this rule or federal RCRA section 3004.
- 6. Liquid hazardous wastes containing polychlorinated biphenyls (PCBs) at concentrations greater than or equal to 50 ppm must be stored at a facility that meets the requirements of 40 CFR 761.65(b) and must be removed from storage and treated or disposed as required by this rule within one year of the date when such wastes are first placed into storage. The provisions of part 3 of this subparagraph do not apply to such PCB wastes prohibited under subparagraph (2)(c) of this rule.
- 7. The prohibition and requirements in this paragraph do not apply to hazardous remediation wastes stored in a staging pile approved pursuant to Rule 0400-12-01-.06(22)(e).
- (5) APPENDICES [40 CFR 268 APPENDICES]

Appendix I - (RESERVED) [40 CFR 268 Appendix I]

Appendix II - (RESERVED) [40 CFR 268 Appendix II]

Appendix III – List of Halogenated Organic Compounds Regulated Under Subparagraph (2)(c) of this rule [40 CFR 268 Appendix III]

In determining the concentration of HOCs in a hazardous waste for purposes of the land disposal prohibition of subparagraph (2)(c) of this rule, Tennessee has defined the HOCs that must be included in a calculation as any compounds having a carbon-halogen bond which are listed in this Appendix (see subparagraph (1)(b) of this rule).

Appendix III to Rule 0400-12-01-.10 consists of the following compounds:

- Volatiles
 - 1. Bromodichloromethane
 - 2. Bromomethane
 - 3. Carbon Tetrachloride
 - 4. Chlorobenzene
 - 5. 2-Chloro-1.3-butadiene

- 6. Chlorodibromomethane
- 7. Chloroethane
- 8. 2-Chloroethyl vinyl ether
- 9. Chloroform
- 10. Chloromethane
- 11. 3-Chloropropene
- 12. 1.2-Dibromo-3-chloropropane
- 13. 1.2-Dibromomethane
- 14. Dibromomethane
- 15. Trans-1.4-Dichloro-2-butene
- 16. Dichlorodifluoromethane
- 17. 1.1-Dichloroethane
- 18. 1.2-Dichloroethane
- 19. 1.1-Dichloroethylene
- 20. Trans-1.2-Dichloroethene
- 21. 1.2-Dichloropropane
- 22. Trans-1,3-Dichloropropene
- 23. cis-1,3-Dichloropropene
- 24. lodomethane
- 25. Methylene chloride
- 26. 1, 1, 1, 2-Tetrachloroethane
- 27. 1, 1, 2, 2-Tetrachloroethane
- 28. Tetrachloroethene29. Tribromomethane
- 30. 1, 1, 1-Trichloroethane
- 31. 1. 1. 2-Trichloroethane
- 32. Trichlorothene
- 33. Trichloromonofluoromethane
- 34. 1, 2, 3-Thrichloropropane
- 35. Vinyl Chloride

II. Semivolatiles

- 1. Bis(2chloroethoxy) ethane
- 2. Bis(2-chloroethyl) ether
- 3. Bis(2-chloroisopropyl) ether
- 4. p-Chloroaniline
- 5. Chlorobenzilate
- 6. p-Chloro-m-cresol
- 7. 2-Chloroanphthalene
- 8. 2-Chlorphenol
- 9. 3-Chloropropionitrile
- 10. m-Dichlorobenzene
- 11. o-Dichlorobenzene
- 12. p-Dichlorobenzene
- 13. 3.3'-Dichlorobenzidine
- 14. 2.4-Dichlorophenol
- 15. 2.6-Dichlorophenol
- 16. Hexachlorobenzene
- 17. Hexachlorobutadiene
- 18. Hexachlorocyclopentadiene
- 19. Hexachloroethane
- 20. Hexachloroprophene
- 21. Hexachlorpropene
- 22. 4.4'-Methylenebis (2-chloroanaline)
- 23. Pentachlorobenzene

- 24. Pentachloroethane
- 25. Pentachloronitrobenzene
- 26. Pentachlorophenol
- 27. Pronamide
- 28. 1, 2, 4, 5-Tetrachlorobenzene
- 29. 2, 3, 4, 6-Tetrachlorophenol
- 30. 1, 2, 4-Trichlorobenzene
- 31. 2, 4, 5-Trichlorophenol
- 32. 2, 4, 6-Trichlorophenol
- 33. Tris(2, 3-dibromopropyl) phosphate

III. Organochlorine Pesticides

- 1. Aldrin
- 2. alpha-BHC
- 3. beta-BHC
- 4. delta-BHC
- 5. gamma-BHC
- 6. Chlorodane
- 7. DDD
- 8. DDE
- 9. DDT
- 10. Dieldrin
- 11. Endosulfan I
- 12. Endosulfan II
- 13. Endrin
- 14. Endrin aldehyde
- 15. Heptachlor
- 16. Heptachlor epoxide
- 17. Isodrin
- 18. Kepone
- 19. Methoxyclor
- 20. Toxaphene

IV. Phenoxyacetic Acid Herbicides

- 1. 2,4-Dichlorophenoxyacetic acid
- 2. Silvex
- 3. 2, 4, 5,-T

V. PCBs

- 1. Aroclor 1016
- 2. Aroclor 1221
- 3. Aroclor 1232
- 4. Aroclor 1242
- 5. Aroclor 1248
- 6. Aroclor 1254
- 7. Aroclor 1260
- 8. PCBs not otherwise specified

VI. Dioxins and Furans

- 1. Hexachlorodibenzo-p-dioxins
- 2. Hexachlorodibenzofuran
- 3. Pentachlorodibenzo-p-dioxins

- 4. Pentachlorodibenzofuran
- 5. Tetrachlorodibenzo-p-dioxins
- 6. Tetrachlorodibenzofuran
- 7. 2, 3, 7, 8-Tetrachlorodibenzo-p-dioxin

Appendix IV-Wastes Excluded From Lab Packs Under the Alternative Treatment Standards of Part (3)(c)3 of this Rule [40 CFR 268 Appendix IV]

Hazardous waste with the following Hazardous Waste Codes may not be placed in lab packs under the alternative lab pack treatment standards of part (3)(c)3 of this rule: D009, F019, K003, K004, K005, K006, K062, K071, K100, K106, P010, P011, P012, P076, P078, U134, U151.

Appendix V -- (RESERVED) [40 CFR 268 Appendix V]

Appendix VI -- Recommended Technologies to Achieve Deactivation of Characteristics in Subparagraph (3)(c) of this Rule [40 CFR 268 Appendix VI]

The treatment standard for many characteristic wastes is stated in subparagraph (3)(a) of this rule, Table of Treatment Standards as "Deactivation and meet UTS." EPA has determined that many technologies, when used alone or in combination, can achieve the deactivation portion of the treatment standard. Characteristic wastes that are not managed in a facility regulated by the Clean Water Act (CWA) or in a CWA-equivalent facility, and that also contain underlying hazardous constituents (see part (1)(b)10 of this rule) must be treated not only by the "deactivating" technology to remove the characteristic, but also to achieve the universal treatment standards (UTS) for underlying hazardous constituents. The following appendix presents a partial list of technologies, utilizing the five letter technology codes established in subparagraph (3)(c) of this rule, Table 1, that may be useful in meeting the treatment standard. Use of these specific technologies is not mandatory and does not preclude direct reuse, recovery, and/or the use of other pretreatment technologies, provided deactivation is achieved and underlying hazardous constituents are treated to achieve the UTS.

Waste Code/Subcategory	Nonwastewaters	Wastewaters
D001 Ignitable Liquids based on 0400-12-0102(3)(b)1(i) Low TOC Nonwastewater Subcategory (containing 1% to <10% TOC)	RORGS INCIN WETOX CHOXD BIODG	n.a ^a
D001 Ignitable Liquids based on 0400-12-0102(3)(b)1(i) Ignitable Wastewater Subcategory (containing <1% TOC)	n.a.	RORGS INCIN WETOX CHOXD BIODG
D001 Compressed Gases based on 0400-12-0102(3)(b)1(iii)	RCGAS INCIN FSUBS ADGAS INCIN ADGAS (CHOXD; or CHRED)	n.a.
D001 Ignitable Reactives based on 0400-12-0102(3)(b)1(ii)	WTRRX CHOXD CHRED STABL INCIN	n.a.
D001 Ignitable Oxidizers based on 0400-12-0102(3)(b)1(iv)	CHRED INCIN	CHRED INCIN
D002 Acid Subcategory based on 0400-12-0102(3)(c)1(i) with pH less than or equal to 2	RCORR NEUTR INCIN	NEUTR INCIN
D002 Alkaline Subcategory based on 0400-12-0102(3)(c)1(i) with pH greater than or equal to 12.5	NEUTR INCIN	NEUTR INCIN
D002 Other Corrosives based on 0400-12-0102(3)(c)1(ii)	CHOXD CHRED INCIN STABL	CHOXD CHRED INCIN
D003 Water Reactives based on 0400-12-0102(3)(d)1(ii),(iii), and (iv)	INCIN WTRRX CHOXD CHRED	n.a.
D003 Reactive Sulfides based on 0400-12-0102(3)(d)1(v)	CHOXD CHRED INCIN STABL	CHOXD CHRED BIODG INCIN

D003 Explosives based on 0400-12-0102(3)(d)1(vi),(vii), and (viii)	INCIN CHOXD CHRED	INCIN CHOXD CHRED BIODG CARBN
D003 Other Reactives based on 0400-12-0102(3)(d)1(i)	INCIN CHOXD CHRED	INCIN CHOXD CHRED BIODG CARBN
K044 Wastewater treatment sludges from the manufacturing and processing of explosives	CHOXD CHRED INCIN	CHOXD CHRED BIODG CARBN INCIN
K045 Spent carbon from the treatment of wastewaters containing explosives	CHOXD CHRED INCIN	CHOXD CHRED BIODG CARBN INCIN
K047 Pink/red water from TNT operations	CHOXD CHRED INCIN	CHOXD CHRED BIODG CARBN INCIN

FOOTNOTE: Note: "n.a." stands for "not applicable"; "fb." stands for "followed by".

Appendix VII - Effective Dates of Surface Disposed Wastes Regulated in the LDRs [40 CFR 268 Appendix VII]

TABLE 1.-EFFECTIVE DATES OF SURFACE DISPOSED WASTES [(NON-SOIL AND DEBRIS) REGULATED IN THE LDRs^a - COMPREHENSIVE LIST]

Waste Code	Waste Category	Effective Date
D001°	All (except High TOC Ignitable Liquids)	Aug. 9, 1993
D001 D002 ° D003	High TOC Ignitable Liquids All Newly identified surface-disposed elemental phosphorus processing wastes	Aug. 8, 1990 Aug. 9, 1993 May 26, 2000
D004	Newly identified D004 and mineral processing wastes	Aug. 24, 1998
D004	Mixed radioactive/newly identified D004 or mineral processing wastes	May 26, 2000
D005	Newly identified D005 and mineral processing	Aug. 24, 1998
D005	wastes Mixed radioactive/newly identified D005 or mineral processing wastes	May 26, 2000
D006	Newly identified D006 and mineral processing	Aug. 24, 1998

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D006	wastes Mixed radioactive/newly identified D006 or mineral processing wastes	May 26, 2000
D007	Newly identified D007 and mineral processing	Aug. 24, 1998
D007	wastes Mixed radioactive/newly identified D007 or mineral processing wastes	May 26, 2000
D008	Newly identified D008 and mineral processing	Aug. 24, 1998
D008	wastes Mixed radioactive/newly identified D008 or mineral processing wastes	May 26, 2000
D009	Newly identified D009 and mineral processing	Aug. 24, 1998
D009	wastes Mixed radioactive/newly identified D009 or mineral processing wastes	May 26, 2000
D010	Newly identified D010 and mineral processing	Aug. 24, 1998
D010	wastes Mixed radioactive/newly identified D010 or mineral	May 26, 2000
D011	processing wastes Newly identified D011 and mineral processing	Aug. 24, 1998
D011	wastes Mixed radioactive/newly identified D011 or mineral	May 26, 2000
D012 (that exhibit the toxicity characteristic based on the TCLP) ^d	processing wastes All	Dec. 14, 1994
D013 (that exhibit the toxicity characteristic based on the TCLP) ^d	All	Dec. 14, 1994
D014 (that exhibit the toxicity characteristic based on the TCLP) ^d	All	Dec. 14, 1994
D015 (that exhibit the toxicity characteristic based on the TCLP) ^d	All	Dec. 14, 1994
D016 (that	All	Dec. 14, 1994

exhibit the the the the the the toxicity characteristic based on the TCLP)d		
D017 (that exhibit the toxicity characteristic based on the TCLP) ^d	All	Dec. 14, 1994
D018	Mixed with radioactive wastes	Sept. 19, 1996
D018	All others	Dec. 19, 1994
D019	Mixed with radioactive wastes	Sept. 19, 1996
D019	All others	Dec. 19, 1994
D020	Mixed with radioactive wastes	Sept. 19, 1996
D020	All others	Dec. 19, 1994
D021	Mixed with radioactive wastes	Sept. 19, 1996
D021	All others	Dec. 19, 1994
D022	Mixed with radioactive wastes	Sept. 19, 1996
D022	All others	Dec. 19, 1994
D023	Mixed with radioactive wastes	Sept. 19, 1996
D023 D024	All others Mixed with radioactive wastes	Dec. 19, 1994 Sept. 19, 1996
D024	All others	Dec. 19, 1994
D025	Mixed with radioactive wastes	Sept. 19, 1996
D025	All others	Dec. 19, 1994
D026	Mixed with radioactive wastes	Sept. 19, 1996
D026	All others	Dec. 19, 1994
D027	Mixed with radioactive wastes	Sept. 19, 1996
D027	All others	Dec. 19, 1994
D028	Mixed with radioactive wastes	Sept. 19, 1996
D028	All others	Dec. 19, 1994
D029	Mixed with radioactive wastes	Sept. 19, 1996
D029	All others	Dec. 19, 1994
D030	Mixed with radioactive wastes	Sept. 19. 1996
D030	All others	Dec. 19, 1994
D031 D031	Mixed with radioactive wastes All others	Sept. 19, 1996 Dec. 19, 1994
D031	Mixed with radioactive wastes	Sept. 19, 1994
D032	All others	Dec. 19, 1994
D033	Mixed with radioactive wastes	Sept. 19, 1996
D033	All others	Dec. 19, 1994
D034	Mixed with radioactive wastes	Sept. 19, 1996
D034	All others	Dec. 19, 1994
D035	Mixed with radioactive wastes	Sept. 19, 1996
D035	All others	Dec. 19, 1994
D036	Mixed with radioactive wastes	Sept. 19, 1996
D036	All others	Dec. 19, 1994
D037	Mixed with radioactive wastes	Sept. 19, 1996
D037	All others	Dec. 19, 1994
D038	Mixed with radioactive wastes	Sept. 19, 1996
D038 D039	All others Mixed with radioactive wastes	Dec. 19, 1994 Sept. 19, 1996
D009	MINOU WILL LAUIDACTIVE WASTES	Jept. 19, 1990

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D039 D040 D040 D041 D041 D042 D042 D043 D043 F001	All others Mixed with radioactive wastes All others Small quantity generators, CERCLA response/RCRA corrective action, initial generator's solvent-water mixtures, solvent- containing sludges and solids	Dec. 19, 1994 Sept. 19, 1996 Dec. 19, 1994 Nov. 8, 1988
F001 F002 (1,1,2- trichloro- ethane)	All others Wastewater and Nonwastewater	Nov. 8, 1986 Aug. 8, 1990
F002	Small quantity generators, CERCLA response/RCRA corrective action, initial generator's solvent-water mixtures, solvent-containing sludges and solids	Nov. 8, 1988
F002 F003	All others Small quantity generators, CERCLA response/RCRA corrective action, initial generator's solvent-water mixtures, solvent- containing sludges and solids	Nov. 8, 1986 Nov. 8, 1988
F003 F004	All others Small quantity generators, CERCLA response/RCRA corrective action, initial generator's solvent-water mixtures, solvent- containing sludges and solids	Nov. 8, 1986 Nov. 8, 1986
F004 F005 (benzene, 2- ethoxy ethanol, 2- nitropropane)	All others Wastewater and Nonwastewater	Nov. 8, 1986 Aug. 8, 1990
F005	Small quantity generators, CERCLA response/RCRA corrective action, initial generator's solvent-water mixtures, solvent-containing sludges and solids	Nov. 8, 1988
F005 F006 F006 F006 (cyanides)	All others Wastewater Nonwastewater Nonwastewater	Nov. 8, 1986 Aug. 8, 1990 Aug. 8, 1988 July 8, 1989
F007 F008	All All	July 8, 1989 July 8, 1989

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	F009	All	July 8, 1989		
	F010	All	June 8, 1989		
	F011	Nonwastewater	Dec. 8, 1989		
	(cyanides)				
	F011	All others	July 8, 1989		
	F012	Nonwastewater	Dec. 8, 1989		
	(cyanides)				
	,				
	F012	All others	July 8, 1989		
	F019	All	Aug. 8, 1990		
	F020	All	Nov. 8, 1988		
	F021	All	Nov. 8, 1988		
	F025	All	Aug. 8, 1990		
	F026	All	Nov. 8, 1988		
	F027	All	Nov. 8, 1988		
	F028	All	Nov. 8, 1988		
	F032	Mixed with radioactive wastes	Aug. 12, 1999		
	F032	All others	Aug. 12, 1997		
	F034	Mixed with radioactive wastes	Aug. 12, 1999		
	F034	All others	Aug. 12, 1997		
	F035	Mixed with radioactive wastes	May 12, 1999		
	F035	All others	Aug. 12, 1997		
	F037	 Not generated from surface impoundment	June 30, 1993		
		cleanouts or closures	0000		
	F037	Generated from surface impoundment cleanouts	June 30, 1994		
		or closures	·		
	F037	Mixed with radioactive wastes	June 30, 1994		
	F038	Not generated from surface impoundment	June 30, 1993		
		cleanouts or closures			
	5 000				
	F038	Generated from surface impoundment cleanouts	June 30, 1994		
		or closures			
	E030	Mixed with radioactive wastes	June 30, 1994		
	F038 F039	Wastewater	Aug. 8, 1990		
	F039	Nonwastewater	May 8, 1992		
	K001	All	Aug. 8, 1988		
	(organics) ^b		Aug. 0, 1900		
	(Organics)				
	K001	All others	Aug. 8, 1988		
	K002	All	Aug. 8, 1990		
	K003	All	Aug. 8, 1990		
	K004	Wastewater	Aug. 8, 1990		
	K004	Nonwastewater	Aug. 8, 1988		
	K005	Wastewater	Aug. 8, 1990		
	K005	Nonwastewater	June 8, 1989		
	K006	All	Aug. 8, 1990		
	K007	Wastewater	Aug. 8, 1990		
	K007	Nonwastewater	June 8, 1989		
	K008	Wastewater	Aug. 8, 1990		
	K008	Nonwastewater	Aug. 8, 1988		

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K009	All	June 8, 1989
K010	All	June 8, 1989
K011	Wastewater	Aug. 8, 1990
K011	Nonwastewater	June 8, 1989
K013	Wastewater	Aug. 8, 1990
K013	Nonwastewater	June 8, 1989
K014	Wastewater	Aug. 8, 1990
K014	Nonwastewater	June 8, 1989
K015	Wastewater	Aug. 8, 1988
K015	Nonwastewater	Aug. 8, 1990
K016	All	Aug. 8, 1988
K017	All	Aug. 8, 1990
K018	All	Aug. 8, 1988
K019	All	Aug. 8, 1988
K020	All	Aug. 8, 1988
K020 K021	Wastewater	_
K021	Nonwastewater	Aug. 8, 1990
K021 K022	Wastewater	Aug. 8, 1988
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Aug. 8, 1990
K022	Nonwastewater	Aug. 8, 1988
K023	All	June 8, 1989
K024	All	Aug. 8, 1988
K025	Wastewater	Aug. 8, 1990
K025	Nonwastewater	Aug. 8, 1988
K026	All	Aug. 8, 1990
K027	All	June 8, 1989
K028	Nonwastewater	Aug. 8, 1990
(metals)		
K028	All others	June 8, 1989
K029	Wastewater	Aug. 8, 1990
K029	Nonwastewater	June 8, 1989
K030	All	Aug. 8, 1988
K031	Wastewater	Aug. 8, 1990
K031	Nonwastewater	May 8, 1992
K032	All	Aug. 8, 1990
K033	All	Aug. 8, 1990
K034	All	Aug. 8, 1990
K035	All	Aug. 8, 1990
K036	Wastewater	June 8, 1989
K036	Nonwastewater	Aug. 8, 1988
K037⁵	Wastewater	Aug. 8, 1988
K037	Nonwastewater	Aug. 8, 1988
K038	All	June 8, 1989
K039	All	June 8, 1989
K040	All	June 8, 1989
K041	All	Aug. 8, 1990
K042	All	Aug. 8, 1990
K043	All	June 8, 1989
K044	All	Aug. 8, 1988
K045	All	Aug. 8, 1988
K046	Nonwastewater	Aug. 8, 1988
(Nonreactive)		
K046	All others	Aug. 8, 1990
K047	All	Aug. 8, 1988
K048	Wastewater	Aug. 8, 1990
K048	Nonwastewater	Nov. 8, 1990

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	K049	Wastewater	Aug. 8, 1990
	K049	Nonwastewater	Nov. 8, 1990
	K050	Wastewater	Aug. 8, 1990
	K050	Nonwastewater	Nov. 8, 1990
	K051	Wastewater	Aug. 8, 1990
	K051	Nonwastewater	Nov. 8, 1990
	K052	Wastewater	Aug. 8, 1990
	K052	Nonwastewater	Nov. 8, 1990
	K060	Wastewater	Aug. 8, 1990
	K060	Nonwastewater	Aug. 8, 1988
	K061	Wastewater	Aug. 8, 1990
	K061	Nonwastewater	June 30, 1992
	K062	All	Aug. 8, 1988
	K069 (Non-	Nonwastewater	Aug. 8, 1988
	Calcium		
	Sulfate)		
	,		
	K069	All others	Aug. 8, 1990
	K071	All	Aug. 8, 1990
	K073	All	Aug. 8, 1990
	K083	All	Aug. 8, 1990
	K084	Wastewater	Aug. 8, 1990
	K084	Nonwastewater	May 8, 1992
	K085	All	Aug. 8, 1990
	K086	All	Aug. 8, 1988
	(organics) ^b		5 ,
	K086	All others	Aug. 8, 1988
	K087	All	Aug. 8, 1988
	K088	Mixed with radioactive wastes	Apr. 8, 1998
	K088	All others	Oct. 8, 1997
	K093	All	June 8, 1989
	K094	All	June 8, 1989
	K095	Wastewater	Aug. 8, 1990
	K095	Nonwastewater	June 8, 1989
	K096	Wastewater	Aug. 8, 1990
	K096	Nonwastewater	June 8, 1989
	K097	All	Aug. 8, 1990
	K098	All	Aug. 8, 1990
	K099	All	Aug. 8, 1988
	K100	Wastewater	Aug. 8, 1990
	K100	Nonwastewater	Aug. 8, 1988
	K101	Wastewater	Aug. 8, 1988
	(organics)		
	K101	Wastewater	Aug. 8, 1990
	(metals)		
	K101	Nonwastewater	Aug. 8, 1988
	(organics)		
	14404	[<u>, </u>	
	K101	Nonwastewater	May 8, 1992
	(metals)		
	K102	Wastewater	Aug. 8, 1988
	(organics)		
	14400		A 0 1000
	K102	Wastewater	Aug. 8, 1990
	(metals)		

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	K102	Nonwastewater	Aug. 8, 1988
	(organics)		_
	,		
	K102	Nonwastewater	May 8, 1992
	(metals)		, 0, .00_
	K103	All	Aug. 8, 1988
			_
	K104	All	Aug. 8, 1988
	K105	All	Aug. 8, 1990
	K106	Wastewater	Aug. 8, 1990
	K106	Nonwastewater	May 8, 1992
	K107	Mixed with radioactive wastes	June 30, 1994
	K107	All others	Nov. 9, 1992
	K108	Mixed with radioactive wastes	June 30, 1994
	K108	All others	Nov. 9, 1992
	K109	Mixed with radioactive wastes	June 30, 1994
	K109	All others	Nov. 9, 1992
	K100 K110	Mixed with radioactive wastes	June 30, 1994
	K110 K110	All others	
			Nov. 9, 1992
	K111	Mixed with radioactive wastes	June 30, 1994
	K111	All others	Nov. 9, 1992
	K112	Mixed with radioactive wastes	June 30, 1994
	K112	All others	Nov. 9, 1992
	K113	All	June 8, 1989
	K114	All	June 8, 1989
	K115	All	June 8, 1989
	K116	All	June 8, 1989
	K117	Mixed with radioactive wastes	June 30, 1994
	K117	All others	Nov. 9, 1992
	K117 K118	Mixed with radioactive wastes	June 30, 1994
	K118	All others	Nov. 9, 1992
	K123	Mixed with radioactive wastes	June 30, 1994
	K123	All others	Nov. 9, 1992
	K124	Mixed with radioactive wastes	June 30, 1994
	K124	All others	Nov. 9, 1992
	K125	Mixed with radioactive wastes	June 30, 1994
	K125	All others	Nov. 9, 1992
	K126	Mixed with radioactive wastes	June 30, 1994
	K126	All others	Nov. 9, 1992
	K131	Mixed with radioactive wastes	June 30, 1994
	K131	All others	Nov. 9, 1992
	K132	Mixed with radioactive wastes	June 30, 1994
	K132	All others	Nov. 9, 1992
	K136	Mixed with radioactive wastes	June 30, 1994
	K136	All others	Nov. 9, 1992
	K141	Mixed with radioactive wastes	Sep. 19, 1996
	K141	All others	Dec. 19, 1994
	K142	Mixed with radioactive wastes	Sep. 19, 1996
	K142	All others	Dec. 19, 1994
	K143	Mixed with radioactive wastes	Sep. 19, 1996
	K143	All others	Dec. 19, 1994
	K144	Mixed with radioactive wastes	Sep. 19, 1996
	K144	All others	Dec. 19, 1994
	K145	Mixed with radioactive wastes	Sep. 19, 1996
	K145	All others	Dec. 19, 1994
	K143 K147	Mixed with radioactive wastes	Sep. 19, 1996
	K147	All others	Dec. 19, 1994

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K148	Mixed with radioactive wastes	Sep. 19, 1996
K148	All others	Dec. 19, 1994
K149	Mixed with radioactive wastes	Sep. 19, 1996
K149	All others	Dec. 19, 1994
K150	Mixed with radioactive wastes	Sep. 19, 1996
K150	All others	Dec. 19, 1994
K151	Mixed with radioactive wastes	Sep. 19, 1996
K151	All others	Dec. 19, 1994
K156	Mixed with radioactive wastes	Apr. 8, 1998
K156	All others	July 8, 1996
K157	Mixed with radioactive wastes	Apr. 8, 1998
K157	All others	July 8, 1996
K158	Mixed with radioactive wastes	Apr. 8, 1998
K158	All others	July 8, 1996
K159	Mixed with radioactive wastes	Apr. 8, 1998
K159	All others	July 8, 1996
K160	Mixed with radioactive wastes	Apr. 8, 1998
K160	All others	July 8, 1996
K161	Mixed with radioactive wastes	Apr. 8, 1998
K161	All others	July 8, 1996
P001	All	Aug. 8, 1990
P002	All	Aug. 8, 1990
P003	All	Aug. 8, 1990
P004	All	Aug. 8, 1990
P005	All	Aug. 8, 1990
P006	All	Aug. 8, 1990
P007	All	Aug. 8, 1990
P008	All	Aug. 8, 1990
P009	All	Aug. 8, 1990
P010	Wastewater	Aug. 8, 1990
P010	Nonwastewater Wastewater	May 8, 1992
P011 P011	Wastewater	Aug. 8, 1990
	Nonwastewater	May 8, 1992
P012 P012	Wastewater Nonwastewater	Aug. 8, 1990
P012 P013	Nonwastewater	May 8, 1992 Aug. 8, 1990
(barium)	Notiwasiewatei	Aug. 6, 1990
(Danum) P013	All others	June 8, 1989
P013	All	l
P014 P015	All	Aug. 8, 1990 Aug. 8, 1990
P016	All	Aug. 8, 1990
P017	All	Aug. 8, 1990
P018	All	Aug. 8, 1990
P020	All	Aug. 8, 1990
P021	All	June 8, 1989
P022	All	Aug. 8, 1990
P023	All	Aug. 8, 1990
P024	All	Aug. 8, 1990
P026	All	Aug. 8, 1990
P027	All	Aug. 8, 1990
P028	All	Aug. 8, 1990
P029	All	June 8, 1989
P030	All	June 8, 1989
P031	All	Aug. 8, 1990
P033	All	Aug. 8, 1990
P034	All	Aug. 8, 1990

Rule 0400-12-0110, cor	ntinued)	
P036	Wastewater	Aug. 8, 1990
P036	Nonwastewater	May 8, 1992
P037	All	Aug. 8, 1990
P038	Wastewater	Aug. 8, 1990
P038	Nonwastewater	May 8, 1992
P039	All	June 8, 1989
P040	All	June 8, 1989
P041	All	June 8, 1989
P042	All	Aug. 8, 1990
P043	All	June 8, 1989
P044	All	June 8, 1989
P045	All	Aug. 8, 1990
P046	All	Aug. 8, 1990
P047	All	Aug. 8, 1990
P048	All	Aug. 8, 1990
P049	All	Aug. 8, 1990
P050	All	Aug. 8, 1990
P051	All	Aug. 8, 1990
P054	All	Aug. 8, 1990
P056	All	Aug. 8, 1990
P057	All	Aug. 8, 1990
P058	All	Aug. 8, 1990
P059	All	Aug. 8, 1990
P060	All	Aug. 8, 1990
P062	All	June 8, 1989
P063	All	June 8, 1989
P064	All	Aug. 8, 1990
P065	Wastewater	Aug. 8, 1990
P065	Nonwastewater	May 8, 1992
P066	All	Aug. 8, 1990
P067	All	Aug. 8, 1990
P068	All	Aug. 8, 1990
P069	All	Aug. 8, 1990
P070	All	Aug. 8, 1990
P071	All	June 8, 1989
P072	All	Aug. 8, 1990
P073	All	Aug. 8, 1990
P074	All	June 8, 1989
P075	All	Aug. 8, 1990
P076	All	Aug. 8, 1990
P077	All	Aug. 8, 1990
P078	All	Aug. 8, 1990
P081	All	Aug. 8, 1990
P082	All	Aug. 8, 1990
P084	All	Aug. 8, 1990
P085	All	June 8, 1989
P087	All	May 8, 1992
P088	All	Aug. 8, 1990
P089	All	June 8, 1989
P099	Wastewater	Aug. 8, 1990
P092	Nonwastewater	May 8, 1992
P092	All	Aug. 8, 1990
P093	All	June 8, 1989
P094 P095	All	Aug. 8, 1990
P095	All	Aug. 8, 1990 Aug. 8, 1990
P090 P097	All	June 8, 1989
F 091	АШ	June 0, 1909

ule 0400-12-0110, col	illiueu)	
P098	All	June 8, 1989
P099 (silver)	Wastewater	Aug. 8, 1990
P099 ` ´	All others	June 8, 1989
P101	All	Aug. 8, 1990
P102	All	Aug. 8, 1990
P103	All	Aug. 8, 1990
P104 (silver)	Wastewater	Aug. 8, 1990
P104	All others	June 8, 1989
P105	All	Aug. 8, 1990
P106	All	June 8, 1989
P108	All	Aug. 8, 1990
P109	All	June 8, 1989
P110	All	Aug. 8, 1990
P111	All	June 8, 1989
P112	All	Aug. 8, 1990
P113	All	Aug. 8, 1990
P114	All	Aug. 8, 1990
P115	All	Aug. 8, 1990
P116	All	Aug. 8, 1990
P118	All	Aug. 8, 1990
P119	All	Aug. 8, 1990
P120	All	Aug. 8, 1990
P121	All	June 8, 1989
P122	All	Aug. 8, 1990
P123	All	Aug. 8, 1990
P127	Mixed with radioactive wastes	Apr. 8, 1998
P127	All others	July 8, 1996
P128	Mixed with radioactive wastes	Apr. 8, 1998
P128	All others	July 8, 1996
P185	Mixed with radioactive wastes	Apr. 8, 1998
P185	All others	July 8, 1996
P188	Mixed with radioactive wastes	Apr. 8, 1998
P188	All others	July 8, 1996
P189	Mixed with radioactive wastes	Apr. 8, 1998
P189	All others	July 8, 1996
P190	Mixed with radioactive wastes	Apr. 8, 1998
P190	All others	July 8, 1996
P191	Mixed with radioactive wastes	Apr. 8, 1998
P191	All others	July 8, 1996
P192	Mixed with radioactive wastes	Apr. 8, 1998
P192	All others	July 8, 1996
P194	Mixed with radioactive wastes	Apr. 8, 1998
P194	All others	July 8, 1996
P196	Mixed with radioactive wastes	Apr. 8, 1998
P196	All others	July 8, 1996
P197	Mixed with radioactive wastes	Apr. 8, 1998
P197	All others	July 8, 1996
P198	Mixed with radioactive wastes	Apr. 8, 1998
P198	All others	July 8, 1996
P199	Mixed with radioactive wastes	Apr. 8, 1998
P199	All others	July 8, 1996
P201	Mixed with radioactive wastes	Apr. 8, 1998
P201	All others	July 8, 1996
P202	Mixed with radioactive wastes	Apr. 8, 1998
P202	All others	July 8, 1996
P203	Mixed with radioactive wastes	Apr. 8, 1998
		1 2, 1000

ule 0400-12-0110, cor	ntinued)	
P203	All others	July 8, 1996
P204	Mixed with radioactive wastes	Apr. 8, 1998
P204	All others	July 8, 1996
P205	Mixed with radioactive wastes	Apr. 8, 1998
P205	All others	July 8, 1996
U001	All	Aug. 8, 1990
U002	All	Aug. 8, 1990
U003	All	Aug. 8, 1990
U004	All	Aug. 8, 1990
U005	All	Aug. 8, 1990
U006	All	Aug. 8, 1990
U007	All	Aug. 8, 1990
U008	All	Aug. 8, 1990
U009	All	Aug. 8, 1990
U010	All	Aug. 8, 1990
U011	All	Aug. 8, 1990
U012	All	Aug. 8, 1990
U014	All	Aug. 8, 1990
U015	All	Aug. 8, 1990
U016	All	Aug. 8, 1990
U017	All	Aug. 8, 1990
U018	All	Aug. 8, 1990
U019	All	Aug. 8, 1990
U020	All	Aug. 8, 1990
U021	All	Aug. 8, 1990
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U023	All	Aug. 8, 1990
U024	All	Aug. 8, 1990
U025	All	Aug. 8, 1990
U026	All	Aug. 8, 1990
U027 U028	All	Aug. 8, 1990
U029	All	June 8, 1989 Aug. 8, 1990
U030	All	Aug. 8, 1990
U031	All	Aug. 8, 1990
U032	All	Aug. 8, 1990
U033	All	Aug. 8, 1990
U034	All	Aug. 8, 1990
U035	All	Aug. 8, 1990
U036	All	Aug. 8, 1990
U037	All	Aug. 8, 1990
U038	All	Aug. 8, 1990
U039	All	Aug. 8, 1990
U041	All	Aug. 8, 1990
U042	All	Aug. 8, 1990
U043	All	Aug. 8, 1990
U044	All	Aug. 8, 1990
U045	All	Aug. 8, 1990
U046	All	Aug. 8, 1990
U047	All	Aug. 8, 1990
U048	All	Aug. 8, 1990
U049	All	Aug. 8, 1990
U050	All	Aug. 8, 1990
U051	All	Aug. 8, 1990
U052	All	Aug. 8, 1990
U053	All	Aug. 8, 1990

(Rule

e 0400-12-0110, cor	ntinued)
U055	All
U056	All
U057	All
U058	All
U059	All
U060	All
U061	All
U062	All
U063	All
U064	All
U066	All
U067	All
U068	All
U069	All
U070	All
U071	All
U072	All
U073	All
U074	All
U075	All
U076	All
U077	All
U078	All
U079	All
U080	All
U081	All
U082	All
U083	All
U084	All
U085	All
U086	All
U087	All
U088	All
U089	All
U090	All
U091	All
U092	All
U093	All
U094	All
U095	All
U096	All
U097	All
U098	All
U099	All
U101	All
U102	All
U103	All
U105	All
U106 U107	All
U108	All
U108 U109	All All
U110	
U110 U111	All
U112	All
U112 U113	All All
UIIS	All

Aug. Aug. Aug. Aug. Aug. Aug. Aug. Aug.	8,	1989
Aug. Aug.	8, 8,	1989 1990 1990 1990
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Aug. Aug. June		1990 1990 1989
Aug. Aug. Aug. June	8, 8,	1990 1990 1990 1989
Aug. Aug. Aug.	8, 8, 8,	1990 1990 1990
Aug. Aug. Aug.	8, 8, 8,	1990 1990 1990

(Rule	0400-	12-01-	.10,	continued)
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U114	0400-12-0110, continued)			
U115 All Aug. 8, 1990 U117 All Aug. 8, 1990 U118 All Aug. 8, 1990 U119 All Aug. 8, 1990 U120 All Aug. 8, 1990 U121 All Aug. 8, 1990 U122 All Aug. 8, 1990 U122 All Aug. 8, 1990 U123 All Aug. 8, 1990 U125 All Aug. 8, 1990 U126 All Aug. 8, 1990 U127 All Aug. 8, 1990 U128 All Aug. 8, 1990 U129 All Aug. 8, 1990 U120 All Aug. 8, 1990 U121 All Aug. 8, 1990 U122 All Aug. 8, 1990 U123 All Aug. 8, 1990 U124 All Aug. 8, 1990 U125 All Aug. 8, 1990 U126 All Aug. 8, 1990 U127 All Aug. 8, 1990 U128 All Aug. 8, 1990 U130 All Aug. 8, 1990 U130 All Aug. 8, 1990 U131 All Aug. 8, 1990 U131 All Aug. 8, 1990 U132 All Aug. 8, 1990 U133 All Aug. 8, 1990 U134 All Aug. 8, 1990 U135 All Aug. 8, 1990 U136 Wastewater U136 Wastewater May. 8, 1992 U137 All Aug. 8, 1990 U140 All Aug. 8, 1990 U141 All Aug. 8, 1990 U141 All Aug. 8, 1990 U142 All Aug. 8, 1990 U143 All Aug. 8, 1990 U144 All Aug. 8, 1990 U145 All Aug. 8, 1990 U146 All Aug. 8, 1990 U147 All Aug. 8, 1990 U148 All Aug. 8, 1990 U149 All Aug. 8, 1990 U149 All Aug. 8, 1990 U140 All Aug. 8, 1990 U141 All Aug. 8, 1990 U142 All Aug. 8, 1990 U143 All Aug. 8, 1990 U144 All Aug. 8, 1990 U145 All Aug. 8, 1990 U146 All Aug. 8, 1990 U150 All Aug. 8, 1990 U151 Wastewater Aug. 8, 1990 U152 All Aug. 8, 1990 U153 All Aug. 8, 1990 U154 All Aug. 8, 1990 U155 All Aug. 8, 1990 U156 All Aug. 8, 1990 U157 All Aug. 8, 1990 U158 All Aug. 8, 1990 U159 All Aug. 8, 1990 U150 All Aug. 8, 1990 U151 Aug. 8, 1990 U152 All Aug. 8, 1990 U153 All Aug. 8, 1990 U154 All Aug. 8, 1990 U155 All Aug. 8, 1990 U156 All Aug. 8, 1990 U157 All Aug. 8, 1990 U158 All Aug. 8, 1990 U159 All Aug. 8, 1990 U150 All Aug. 8, 1990 U151 Aug. 8, 1990 U152 All Aug. 8, 1990 U153 All Aug. 8, 1990 U154 All Aug. 8, 1990 U156 All Aug. 8, 1990 U157 All Aug. 8, 1990 U158 All Aug. 8, 1990 U159 All Aug. 8, 1990 U160 All Aug. 8, 1990 U161 All Aug. 8, 1990 U162 All Aug. 8, 1990	U114	All	Aug. 8, 1990	
U116 U117 All Aug. 8, 1990 U118 All Aug. 8, 1990 U119 All Aug. 8, 1990 U120 All Aug. 8, 1990 U121 All Aug. 8, 1990 U121 All Aug. 8, 1990 U122 All Aug. 8, 1990 U123 All Aug. 8, 1990 U123 All Aug. 8, 1990 U124 All Aug. 8, 1990 U125 All Aug. 8, 1990 U126 All Aug. 8, 1990 U127 All Aug. 8, 1990 U127 All Aug. 8, 1990 U128 All Aug. 8, 1990 U129 All Aug. 8, 1990 U129 All Aug. 8, 1990 U130 All Aug. 8, 1990 U131 All Aug. 8, 1990 U131 All Aug. 8, 1990 U132 All Aug. 8, 1990 U133 All Aug. 8, 1990 U134 All Aug. 8, 1990 U135 All Aug. 8, 1990 U136 Nonwastewater Aug. 8, 1990 U136 Nonwastewater Aug. 8, 1990 U137 All Aug. 8, 1990 U138 All Aug. 8, 1990 U138 All Aug. 8, 1990 U139 U140 All Aug. 8, 1990 U141 All Aug. 8, 1990 U141 All Aug. 8, 1990 U142 All Aug. 8, 1990 U144 All Aug. 8, 1990 U145 All Aug. 8, 1990 U144 All Aug. 8, 1990 U145 All Aug. 8, 1990 U146 All Aug. 8, 1990 U147 All Aug. 8, 1990 U148 All Aug. 8, 1990 U149 Aug. 8, 1990 U140 All Aug. 8, 1990 U141 Aug. 8, 1990 U141 Aug. 8, 1990 U142 All Aug. 8, 1990 U143 Aug. 8, 1990 U144 All Aug. 8, 1990 U145 All Aug. 8, 1990 U146 All Aug. 8, 1990 U159 All Aug. 8, 1990 U160 All Aug. 8, 1990 U161 All Aug. 8, 1990 U162 All Aug. 8, 1990 U163 All Aug. 8, 1990 U166 All Aug. 8, 1990 U166 All Aug. 8, 1990 Aug. 8, 1990 U166 All Aug. 8, 1990 Aug.	U115	All	-	
U118	U116	All		
U118	U117	All	-	
U119	U118	All		
U120		All	•	
U121		All		
U1122			-	
U123			-	
U124			-	
U125			-	
U126	U125			
U127		All		
U128		All	-	
U129		All	-	
U130		All		
U131 All Aug. 8, 1990 U132 All Aug. 8, 1990 U133 All Aug. 8, 1990 U134 All Aug. 8, 1990 U135 All Aug. 8, 1990 U136 Wastewater Aug. 8, 1990 U137 All Aug. 8, 1990 U138 All Aug. 8, 1990 U140 All Aug. 8, 1990 U141 All Aug. 8, 1990 U141 All Aug. 8, 1990 U142 All Aug. 8, 1990 U143 All Aug. 8, 1990 U144 All Aug. 8, 1990 U144 All Aug. 8, 1990 U145 All Aug. 8, 1990 U146 All Aug. 8, 1990 U147 All Aug. 8, 1990 U148 All Aug. 8, 1990 U151 Wastewater Aug. 8, 1990 U151 Wastewater Aug. 8, 1990 U152 All Aug. 8, 1990		All	-	
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U150 All Aug. 8, 1990 U151 Wastewater Aug. 8, 1990 U151 Nonwastewater May 8, 1992 U152 All Aug. 8, 1990 U153 All Aug. 8, 1990 U154 All Aug. 8, 1990 U155 All Aug. 8, 1990 U156 All Aug. 8, 1990 U157 All Aug. 8, 1990 U158 All Aug. 8, 1990 U159 All Aug. 8, 1990 U160 All Aug. 8, 1990 U161 All Aug. 8, 1990 U162 All Aug. 8, 1990 U163 All Aug. 8, 1990 U164 All Aug. 8, 1990 U165 All Aug. 8, 1990 U166 All Aug. 8, 1990 U167 All Aug. 8, 1990 U167 All Aug. 8, 1990	U148	All	Aug. 8, 1990	
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U151 Nonwastewater May 8, 1992 U152 All Aug. 8, 1990 U153 All Aug. 8, 1990 U154 All Aug. 8, 1990 U155 All Aug. 8, 1990 U156 All Aug. 8, 1990 U157 All Aug. 8, 1990 U158 All Aug. 8, 1990 U159 All Aug. 8, 1990 U160 All Aug. 8, 1990 U161 All Aug. 8, 1990 U162 All Aug. 8, 1990 U163 All Aug. 8, 1990 U164 All Aug. 8, 1990 U165 All Aug. 8, 1990 U166 All Aug. 8, 1990 U167 All Aug. 8, 1990	U150	All	Aug. 8, 1990	
U152 All Aug. 8, 1990 U153 All Aug. 8, 1990 U154 All Aug. 8, 1990 U155 All Aug. 8, 1990 U156 All Aug. 8, 1990 U157 All Aug. 8, 1990 U158 All Aug. 8, 1990 U159 All Aug. 8, 1990 U160 All Aug. 8, 1990 U161 All Aug. 8, 1990 U162 All Aug. 8, 1990 U163 All Aug. 8, 1990 U164 All Aug. 8, 1990 U165 All Aug. 8, 1990 U166 All Aug. 8, 1990 U167 All Aug. 8, 1990	U151	Wastewater	Aug. 8, 1990	
U153 All Aug. 8, 1990 U154 All Aug. 8, 1990 U155 All Aug. 8, 1990 U156 All Aug. 8, 1990 U157 All Aug. 8, 1990 U158 All Aug. 8, 1990 U159 All Aug. 8, 1990 U160 All Aug. 8, 1990 U161 All Aug. 8, 1990 U162 All Aug. 8, 1990 U163 All Aug. 8, 1990 U164 All Aug. 8, 1990 U165 All Aug. 8, 1990 U166 All Aug. 8, 1990 U167 All Aug. 8, 1990	U151	Nonwastewater	May 8, 1992	
U154 All Aug. 8, 1990 U155 All Aug. 8, 1990 U156 All Aug. 8, 1990 U157 All Aug. 8, 1990 U158 All Aug. 8, 1990 U159 All Aug. 8, 1990 U160 All Aug. 8, 1990 U161 All Aug. 8, 1990 U162 All Aug. 8, 1990 U163 All Aug. 8, 1990 U164 All Aug. 8, 1990 U165 All Aug. 8, 1990 U166 All Aug. 8, 1990 U167 All Aug. 8, 1990	U152	All	Aug. 8, 1990	
U155 All Aug. 8, 1990 U156 All Aug. 8, 1990 U157 All Aug. 8, 1990 U158 All Aug. 8, 1990 U159 All Aug. 8, 1990 U160 All Aug. 8, 1990 U161 All Aug. 8, 1990 U162 All Aug. 8, 1990 U163 All Aug. 8, 1990 U164 All Aug. 8, 1990 U165 All Aug. 8, 1990 U166 All Aug. 8, 1990 U167 All Aug. 8, 1990	U153	All		
U156 All Aug. 8, 1990 U157 All Aug. 8, 1990 U158 All Aug. 8, 1990 U159 All Aug. 8, 1990 U160 All Aug. 8, 1990 U161 All Aug. 8, 1990 U162 All Aug. 8, 1990 U163 All Aug. 8, 1990 U164 All Aug. 8, 1990 U165 All Aug. 8, 1990 U166 All Aug. 8, 1990 U167 All Aug. 8, 1990	U154	All	Aug. 8, 1990	
U157 All Aug. 8, 1990 U158 All Aug. 8, 1990 U159 All Aug. 8, 1990 U160 All Aug. 8, 1990 U161 All Aug. 8, 1990 U162 All Aug. 8, 1990 U163 All Aug. 8, 1990 U164 All Aug. 8, 1990 U165 All Aug. 8, 1990 U166 All Aug. 8, 1990 U167 All Aug. 8, 1990			Aug. 8, 1990	
U158 All Aug. 8, 1990 U159 All Aug. 8, 1990 U160 All Aug. 8, 1990 U161 All Aug. 8, 1990 U162 All Aug. 8, 1990 U163 All Aug. 8, 1990 U164 All Aug. 8, 1990 U165 All Aug. 8, 1990 U166 All Aug. 8, 1990 U167 All Aug. 8, 1990				
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U162 All Aug. 8, 1990 U163 All Aug. 8, 1990 U164 All Aug. 8, 1990 U165 All Aug. 8, 1990 U166 All Aug. 8, 1990 U167 All Aug. 8, 1990				
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U165 All Aug. 8, 1990 U166 All Aug. 8, 1990 U167 All Aug. 8, 1990			-	
U166 All Aug. 8, 1990 U167 All Aug. 8, 1990				
U167 All Aug. 8, 1990				
U168 All Aug. 8, 1990				
	U168	All	Aug. 8, 1990	

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U169	,		
U170	All All		
U171	All		
U172	All		
U173	All		
U174	All		
U176	All		
U177	All		
U178	All		
U179	All		
U180	All		
U181	All		
U182	All		
U183	All		
U184	All		
U185	All		
U186	All		
U187	All		
U188	All		
U189	All		
U190	All		
U191	All		
U192	All		
U193	All		
U194 U196	All All		
U197	All		
U200	All		
U201	All		
U203	All		
U204	All		
U205	All		
U206	All		
U207	All		
U208	All		
U209	All		
U210	All		
U211	All		
U213	All		
U214	All		
U215	All		
U216 U217	All		
U217 U218	All All		
U219	All		
U220	All		
U221	All		
U222	All		
U223	All		
U225	All		
U226	All		
U227	All		
U228	All		
U234	All		
U235	All		
U236	All		

Aug. 8,	1990
Aug. 8,	1990
Aug. 8,	1990
Aug. 0,	1990
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Aug. 8,	1990
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June 8,	1989
Aug. 8,	1990
Aug. 8,	1990
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June 8,	1989
Aug. 8,	1990
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Aug. 8,	1990
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June 8,	1989
Aug. 8,	1990
June 8,	1989
Aug. 8,	1990
June 8,	1989
Aug. 8,	1990

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U237	All	Aug. 8, 1990
U238	All	Aug. 8, 1990
U239	All	Aug. 8, 1990
U240	All	Aug. 8, 1990
U243	All	Aug. 8, 1990
U244	All	Aug. 8, 1990
U246	All	Aug. 8, 1990
U247	All	Aug. 8, 1990
U248	All	Aug. 8, 1990
U249	All	Aug. 8, 1990
U271	Mixed with radioactive wastes	Apr. 8, 1998
U271	All others	July 8, 1996
U277	Mixed with radioactive wastes	Apr. 8, 1998
U277	All others	July 8, 1996
U278	Mixed with radioactive wastes	Apr. 8, 1998
U278	All others	July 8, 1996
U279	Mixed with radioactive wastes	Apr. 8, 1998
U279	All others	July 8, 1996
U280	Mixed with radioactive wastes	Apr. 8, 1998
U280	All others	July 8, 1996
U328	Mixed with radioactive wastes	June 30, 1994
U328	All others	Nov. 9, 1992
U353	Mixed with radioactive wastes	June 30, 1994
U353	All others	Nov. 9, 1992
U359	Mixed with radioactive wastes	June 30, 1994
U359	All others	Nov. 9, 1992
U364	Mixed with radioactive wastes	Apr. 8, 1998
U364	All others	July 8, 1996
U365	Mixed with radioactive wastes	Apr. 8, 1998
U365	All others	July 8, 1996
U366	Mixed with radioactive wastes	Apr. 8, 1998
U366	All others	July 8, 1996
U367	Mixed with radioactive wastes	Apr. 8, 1998
U367	All others	July 8, 1996
U372	Mixed with radioactive wastes	Apr. 8, 1998
U372	All others	
U373	Mixed with radioactive wastes	July 8, 1996
U373	All others	Apr. 8, 1998 July 8, 1996
	Mixed with radioactive wastes	l . *
U375	All others	Apr. 8, 1998
U375 U376	Mixed with radioactive wastes	July 8, 1996 Apr. 8, 1998
U376	All others	July 8, 1996
U377	Mixed with radioactive wastes	Apr. 8, 1998
U377	All others	
	Mixed with radioactive wastes	July 8, 1996
U378	All others	Apr. 8, 1998
U378		July 8, 1996 Apr. 8, 1998
U379	Mixed with radioactive wastes	
U379	All others Mixed with radioactive wastes	July 8, 1996
U381	All others	Apr. 8, 1998
U381		July 8, 1996
U382	Mixed with radioactive wastes	Apr. 8, 1998
U382	All others	July 8, 1996
U383	Mixed with radioactive wastes	Apr. 8, 1998
U383	All others	July 8, 1996
U384	Mixed with radioactive wastes	Apr. 8, 1998
U384	All others	July 8, 1996

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U385	Mixed with radioactive wastes	Apr. 8, 1998
U385	All others	July 8, 1996
U386	Mixed with radioactive wastes	Apr. 8, 1998
U386	All others	July 8, 1996
U387	Mixed with radioactive wastes	Apr. 8, 1998
U387	All others	July 8, 1996
U389	Mixed with radioactive wastes	Apr. 8, 1998
U389	All others	July 8, 1996
U390	Mixed with radioactive wastes	Apr. 8, 1998
U390	All others	July 8, 1996
U391	Mixed with radioactive wastes	Apr. 8, 1998
U391	All others	July 8, 1996
U392	Mixed with radioactive wastes	Apr. 8, 1998
U392	All others	July 8, 1996
U393	Mixed with radioactive wastes	Apr. 8, 1998
U393	All others	July 8, 1996
U394	Mixed with radioactive wastes	Apr. 8, 1998
U394	All others	July 8, 1996
U395	Mixed with radioactive wastes	Apr. 8, 1998
U395	All others	July 8, 1996
U396	Mixed with radioactive wastes	Apr. 8, 1998
U396	All others	July 8, 1996
U400	Mixed with radioactive wastes	Apr. 8, 1998
U400	All others	July 8, 1996
U401	Mixed with radioactive wastes	Apr. 8, 1998
U401	All others	July 8, 1996
U402	Mixed with radioactive wastes	Apr. 8, 1998
U402	All others	July 8, 1996
U403	Mixed with radioactive wastes	Apr. 8, 1998
U403	All others	July 8, 1996
U404	Mixed with radioactive wastes	Apr. 8, 1998
U404	All others	July 8, 1996
U407	Mixed with radioactive wastes	Apr. 8, 1998
U407	All others	July 8, 1996
U409	Mixed with radioactive wastes	Apr. 8, 1998
U409	All others	July 8, 1996
U410	Mixed with radioactive wastes	Apr. 8, 1998
U410	All others	July 8, 1996
U411	Mixed with radioactive wastes	Apr. 8, 1998
U411	All others	July 8, 1996

FOOTNOTE:^a This table does not include mixed radioactive wastes (from the First, Second, and Third Third rules) which received national capacity variance until May 8, 1992. This table also does not include contaminated soil and debris wastes.

FOOTNOTE:^b The standard was revised in the Third Third Final Rule (55 FR 22520, June 1, 1990).

FOOTNOTE: The standard was revised in the Third Third Emergency Rule (58 FR 29860, May 24, 1993); the original effective date was August 8, 1990.

FOOTNOTE:^d The standard was revised in the Phase II Final Rule (59 FR 47982, Sept. 19, 1994); the original effective date was August 8, 1990.

FOOTNOTE: The standards for selected reactive wastes were revised in the Phase III Final Rule (61 FR 15566, Apr. 8, 1996); the original effective date was August 8, 1990.

TABLE 2.-SUMMARY OF EFFECTIVE DATES OF LAND DISPOSAL RESTRICTIONS FOR CONTAMINATED SOIL AND DEBRIS (CSD)

	Restricted Hazardous Waste in CSD	Effective Date
1.	Solvent-(F001F005) and dioxin-(F020F023 and F026F028) containing soil and debris from CERCLA response of RCRA corrective actions	Nov. 8, 1990
2.	Soil and debris not from CERCLA response or RCRA corrective actions contaminated with less than 1% total solvents (F001F005) or dioxins (F020F023 and F026F028)	Nov. 8, 1988
3.	All soil and debris contaminated with First Third wastes for which treatment standards are based on incineration	Aug. 8, 1990
4.	All soil and debris contaminated with Second Third wastes for which treatment standards are based on incineration	June 8, 1991
5.	All soil and debris contaminated with Third Third wastes or, First or Second Third "soft hammer" wastes which had treatment standards promulgated in the Third Third rule, for which treatment standards are based on incineration, vitrification, or mercury retorting, acid leaching followed by chemical precipitation, or thermal recovery of metals; as well as all inorganic solids debris contaminated with D004D011 wastes, and all soil and debris contaminated with mixed RCRA/radioactive wastes	May 8, 1992
6.	Soil and debris contaminated with D012 D043, K141K145, and K147K151 wastes	Dec. 19, 1994
7.	Debris (only) contaminated with F037, F038, K107K112, K117, K118, K123K126, K131, K132, K136, U328, U353, U359	Dec. 19, 1994
8.	Soil and debris contaminated with K156 K161, P127, P128, P188P192, P194, P196P199, P201P205, U271, U277 U280, U364U367, U372, U373, U375 U379, U381U387, U389U396, U400 U404, U407, and U409U411 wastes	July 8, 1996
9.	Soil and debris contaminated with K088 wastes	Oct. 8, 1997
10.	Soil and debris contaminated with radioactive wastes mixed with K088, K156K161, P127, P128, P188P192, P194, P196P199, P201P205, U271, U277U280, U364U367, U372, U373, U375U379, U381U387, U389U396, U400U404, U407, and U409U411 wastes	Apr. 8, 1998

11.	Soil and debris contaminated with F032, F034, and F035	May 12, 1997
12.	Soil and debris contaminated with newly identified D004D011 toxicity characteristic wastes and mineral processing wastes	Aug. 24, 1998
13.	Soil and debris contaminated with mixed radioactive newly identified D004D011 characteristic wastes and mineral processing wastes	May 26, 2000

(NOTE: Appendix VII is provided for the convenience of the reader.)

(NOTE: A contaminated soil and debris rule will be promulgated in the future.)

Appendix VIII - LDR Effective Dates of Injected Prohibited Hazardous Waste [40 CFR 268 Appendix VIII]

NATIONAL CAPACITY LDR VARIANCES FOR UIC WASTES^a

Waste Code	Waste Category	Effective Date
F001F005	All spent F001F005 solvent containing less than 1 percent total F001F005 solvent constituents	Aug. 8, 1990
D001 (except High TOC Ignitable Liquids Subcategory) ^c	All	Feb. 10, 1994
D001 (High TOC Ignitable Characteristic Liquids Subcategory)	Nonwastewater	Sept. 19, 1995
D002 ^b	All	May 8, 1992
D002 °	All	Feb. 10, 1994
D003 (cyanides)	All	May 8, 1992
D003 (sulfides)	All	May 8, 1992
D003 (explosives, reactives)	All	May 8, 1992
D007	All	May 8, 1992
D009	Nonwastewater	May 8, 1992
D012	All	Sept. 19, 1995
D013	All	Sept. 19, 1995
D014	All	Sept. 19, 1995
D015	All	Sept. 19, 1995
D016	All	Sept. 19, 1995

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D017	All	Sept. 19, 1995
D018	All, including mixed with radioactive wastes	Apr. 8, 1998
D019	All, including mixed with radioactive wastes	Apr. 8, 1998
D020	All, including mixed with radioactive wastes	Apr. 8, 1998
D021	All, including mixed with radioactive wastes	Apr. 8, 1998
D022	All, including mixed with radioactive wastes	Apr. 8, 1998
D023	All, including mixed radioactive wastes	Apr. 8, 1998
D024	All, including mixed radioactive wastes	Apr. 8, 1998
D025	All, including mixed radioactive wastes	Apr. 8, 1998
D026	All, including mixed radioactive wastes	Apr. 8, 1998
D027	All, including mixed radioactive wastes	Apr. 8, 1998
D028	All, including mixed radioactive wastes	Apr. 8, 1998
D029	All, including mixed radioactive wastes	Apr. 8, 1998
D030	All, including mixed radioactive wastes	Apr. 8, 1998
D031	All, including mixed radioactive wastes	Apr. 8, 1998
D032	All, including mixed radioactive wastes	Apr. 8, 1998
D033	All, including mixed radioactive wastes	Apr. 8, 1998
D034	All, including mixed radioactive wastes	Apr. 8, 1998
D035	All, including mixed radioactive wastes	Apr. 8, 1998
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D036	All, including mixed radioactive wastes	Apr. 8, 1998
D037	All, including mixed radioactive wastes	Apr. 8, 1998
D038	All, including mixed radioactive wastes	Apr. 8, 1998
D039	All, including mixed radioactive wastes	Apr. 8, 1998
D040	All, including mixed radioactive wastes	Apr. 8, 1998
D041	All, including mixed radioactive wastes	Apr. 8, 1998
D042	All, including mixed radioactive wastes	Apr. 8, 1998
D043	All, including mixed radioactive wastes	Apr. 8, 1998
F007	All	June 8, 1991
F032	All, including mixed radioactive wastes	May 12, 1999
F034	All, including mixed radioactive wastes	May 12, 1999
F035	All, including mixed radioactive wastes	May 12, 1999
F037	All	Nov. 8, 199
F038	All	Nov. 8, 1992
F039	Wastewater	May 8, 1992
K009	Wastewater	June 8, 1991
K011	Nonwastewater	June 8, 1991
K011	Wastewater	May 8, 1992
K013	Nonwastewater	June 8, 1991
K013	Wastewater	May 8, 1992
K014	All	May 8, 1992
K016 (dilute)	All	June 8, 1991
K049	All	Aug. 8, 1990

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	K050	All	Aug. 8, 1990
	K051	All	Aug. 8, 1990
	K052	All	Aug. 8, 1990
	K062	All	Aug. 8, 1990
	K071	All	Aug. 8, 1990
	K088	All	Jan. 8, 1997
	K104	All	Aug. 8, 1990
	K107	All	Nov. 8, 1992.
	K108	All	Nov. 9, 1992
	K109	All	Nov. 9, 1992
	K110	All	Nov. 9, 1992
	K111	All	Nov. 9, 1992
	K112	All	Nov. 9, 1992
	K117	All	June 30, 1995
	K118	All	June 30, 1995
	K123	All	Nov. 9, 1992
	K124	All	Nov. 9, 1992
	K125	All	Nov. 9, 1992
	K126	All	Nov. 9, 1992
	K131	All	June 30, 1995
	K132	All	June 30, 1995
	K136	All	Nov. 9, 1992
	K141	All	Dec. 19, 1994
	K142	All	Dec. 19, 1994
	K143	All	Dec. 19, 1994
	K144	All	Dec. 19, 1994
	K145	All	Dec. 19, 1994
	K147	All	Dec. 19, 1994

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K148	All	Dec. 19, 1994
K149	All	Dec. 19, 1994
K150	All	Dec. 19, 1994
K151	All	Dec. 19, 1994
K156	All	July 8, 1996
K157	All	July 8, 1996.
K158	All	July 8, 1996
K159	All	July 8, 1996
K160	All	July 8, 1996
K161	All	July 8, 1996
NA	Newly identified mineral processing wastes from titanium dioxide production and mixed radioactive/newly identified D004-D011 characteristic wastes and mineral process wastes	May 26, 2000.
P127	All	July 8, 1996
P128	All	July 8, 1996
P185	All	July 8, 1996
P188	All	July 8, 1996
P189	All	July 8, 1996
P190	All	July 8, 1996
P191	All	July 8, 1996
P192	All	July 8, 1996
P194	All	July 8, 1996
P196	All	July 8, 1996
P197	All	July 8, 1996
P198	All	July 8, 1996
P199	All	July 8, 1996
P201	All	July 8, 1996
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P202	All	July 8, 1996
P203	All	July 8, 1996
P204	All	July 8, 1996
P205	All	July 8, 1996
U271	All	July 8, 1996
U277	All	July 8, 1996
U278	All	July 8, 1996
U279	All	July 8, 1996
U280	All	July 8, 1996
U328	All	Nov. 9, 1992
U353	All	Nov. 9, 1992
U359	All	Nov. 9, 1992
U364	All	July 8, 1996
U365	All	July 8, 1996
U366	All	July 8, 1996
U367	All	July 8, 1996
U372	All	July 8, 1996
U373	All	July 8, 1996
U375	All	July 8, 1996
U376	All	July 8, 1996
U377	All	July 8, 1996
U378	All	July 8, 1996
U379	All	July 8, 1996
U381	All	July 8, 1996
U382	All	July 8, 1996
U383	All	July 8, 1996
U384	All	July 8, 1996
U385	All	July 8, 1996
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U386	All	July 8, 1996
U387	All	July 8, 1996
U389	All	July 8, 1996
U390	All	July 8, 1996
U391	All	July 8, 1996
U392	All	July 8, 1996
U395	All	July 8, 1996
U396	All	July 8, 1996
U400	All	July 8, 1996
U401	All	July 8, 1996
U402	All	July 8, 1996
U403	All	July 8, 1996
U404	All	July 8, 1996
U407	All	July 8, 1996
U409	All	July 8, 1996
U410	All	July 8, 1996
U411	All	July 8, 1996

FOOTNOTE:^a Wastes that are deep well disposed on-site receive a six-month variance, with restrictions effective in November 1990.

FOOTNOTE:^b Deepwell injected D002 liquids with a pH less than 2 must meet the California List treatment standards on August 8, 1990.

FOOTNOTE: Managed in systems defined in 40 CFR 144.6(e) and 14.6(e) as Class V injection wells, that do not engage in CWA-equivalent treatment before injection.

(NOTE: This table is provided for the convenience of the reader.)

Appendix IX – (Reserved) Extraction Procedure (EP) Toxicity Test Method and Structural Integrity Test (Method 1310B) [40 CFR 268 Appendix IX]

(* Note: The EP (Method 1310B) is published in "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods," EPA Publication SW-846, listed in 40 CFR 260.11; Rule 0400-12-01-.01(2)(b)1.)

Appendix X - (RESERVED) [40 CFR 268 Appendix X]

Appendix XI - Metal Bearing Wastes Prohibited from Dilution in a Combustion Unit According to Part $(1)(c)3^a$ of this Rule

Waste Code Waste Description

Waste Code	Waste Description
D004	Toxicity Characteristic for Arsenic
D005	Toxicity Characteristic for Barium
D006	Toxicity Characteristic for Cadmium
D007	Toxicity Characteristic for Chromium
D008	Toxicity Characteristic for Lead
D009	Toxicity Characteristic for Mercury
D010	Toxicity Characteristic for Selenium
D011	Toxicity Characteristic for Silver
F006	Wastewater treatment sludges from electroplating operations except from the following processes: (1) sulfuric acid anodizing of aluminum; (2) tin plating carbon steel; (3) zinc plating (segregated basis) on carbon steel; (4) aluminum or zinc-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
F007	Spent cyanide plating bath solutions from electroplating operations
F008	Plating bath residues from the bottom of plating baths from electroplating operations where cyanides are used in the process
F009	Spent stripping and cleaning bath solutions from electroplating operations where cyanides are used in the process
F010	Quenching bath residues from oil baths from metal treating operations where cyanides are used in the process
F011	Spent cyanide solutions from salt bath pot cleaning from metal heat treating operations
F012	Quenching waste water treatment sludges from metal heat treating operations where cyanides are used in the process
F019	Wastewater treatment sludges from the chemical conversion coating of aluminum except from zirconium phosphating in aluminum car washing when such phosphating is an exclusive conversion coating process
K002	Wastewater treatment sludge from the production of chrome yellow and orange pigments
K003	Wastewater treatment sludge from the production of molybdate orange pigments
K004	Wastewater treatment sludge from the production of zinc yellow pigments
K005	Wastewater treatment sludge from the production of chrome green pigments
K006	Wastewater treatment sludge from the production of chrome oxide green pigments (anhydrous and hydrated)
K007	Wastewater treatment sludge from the production of iron blue pigments.
K008	Oven residue from the production of chrome oxide green pigments

Waste Code	Waste Description
K061	Emission control dust/sludge from the primary production of steel in electric furnaces
K069	Emission control dust/sludge from secondary lead smelting
K071	Brine purification muds from the mercury cell processes in chlorine production, where separately prepurified brine is not used
K100	Waste leaching solution from acid leaching of emission control dust/sludge from secondary lead smelting
K106	Sludges from the mercury cell processes for making chlorine
P010	Arsenic acid H ₃ AsO ₄
P011	Arsenic oxide As ₂ O ₅
P012	Arsenic trioxide
P013	Barium cyanide
P015	Beryllium
P029	Copper cyanide Cu(CN)
P074	Nickel cyanide Ni(CN) ₂
P087	Osmium tetroxide
P099	Potassium silver cyanide
P104	Silver cyanide
P113	Thallic oxide
P114	Thallium (I) selenite
P115	Thallium (I) sulfate
P119	Ammonium vanadate
P120	Vanadium oxide V ₂ O ₅
P121	Zinc cyanide
U032	Calcium chromate
U145	Lead phosphate
U151	Mercury
U204	Selenious acid
U205	Selenium disulfide
U216	Thallium (I) chloride
U217	Thallium (I) nitrate

FOOTNOTE:^a A combustion unit is defined as any thermal technology subject to Rule 0400-12-01-.05(15); 0400-12-01-.06(15); and/or 0400-12-01-.09(8).

Authority: T.C.A. §§ 4-5-201, et seq., and 68-212-101, et seq. Administrative History: Original rule filed June 19, 2012; effective September 17, 2012. Rule was renumbered from 1200-01-11-.10. Amendments filed August 7, 2013; effective November 5, 2013. Amendments filed November 12, 2014; effective February 10, 2015. Amendments filed July 10, 2015; effective October 8, 2015. Amendments filed May 9, 2017; to have become effective August 7, 2017. 75-day stay of effective date of rules filed July 20, 2017; new effective date to have been October 21, 2017. 75-day stay of effective date of rules filed September 7, 2017; new effective date January 4, 2018. Amendments filed February 12, 2021; effective May 13, 2021. Amendments filed March 5, 2021; effective June 3, 2021. Amendments filed January 11, 2022; effective April 11, 2022. Amendments filed June 8, 2023; effective September 6, 2023.