

Part 268 - Land Disposal Restrictions

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Subpart A - General

Section 268.1 Purpose, scope and applicability.

(a) This part 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.

(b) Except as specifically provided otherwise in this part or Part 261 of these regulations, the requirements of this part apply to persons who generate or transport hazardous waste and owners and operators of hazardous waste treatment, storage, and disposal facilities.

(c) Restricted wastes may continue to be land disposed as follows:

(1) Where persons have been granted an extension to the effective date of a prohibition under Subpart C of this part or pursuant to §268.5, with respect to those wastes covered by the extension;

(2) Where persons have been granted an exemption from a prohibition pursuant to a petition under §268.6, with respect to those wastes and units covered by the petition;

(3) Wastes that are hazardous only because they exhibit a hazardous characteristic, and which are otherwise prohibited from land disposal under this part, are not prohibited from land disposal if the wastes:

(i) Are disposed into a nonhazardous or hazardous injection well as defined in 40 CFR, §144.6(a); and

(ii) Do not exhibit any prohibited characteristic of hazardous waste at the point of injection; and

(iii) If at the point of generation the injected wastes include D001 High TOC subcategory wastes or D012-D017 pesticide wastes that are prohibited under 40 CFR §148.17(c), those wastes have been treated to meet the treatment standards of §268.40 before injection.

(d) The requirements of this part shall not affect the availability of a waiver under §121(d)(4) of the Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA).

(e) The following hazardous wastes are not subject to any provision of Part 268:

(1) Waste generated by small quantity generators of less than 100 kilograms of non-acute hazardous waste or less than 1 kilogram of acute hazardous waste per month, as defined in §261.5 of these regulations;

(2) Waste pesticides that a farmer disposes of pursuant to §262.70.

(3) Wastes identified or listed as hazardous after November 8, 1984 for which EPA has not promulgated land disposal prohibitions or treatment standards.

NOTE: Between 11/08/88 and 11/08/90, if disposed in landfill or surface impoundment, the unit must meet minimum technology requirements.

(4) De minimis losses to wastewater treatment systems of commercial chemical product or chemical intermediates that are ignitable (D001), corrosive (D002), or are organic constituents that exhibit the characteristic of toxicity (D012-D043), and that contain underlying hazardous constituents as defined in §268.2(i), are not considered to be prohibited wastes. De minimis is 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; and rinsate from empty containers or from containers that are rendered empty by that rinsing; or

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(5) Land disposal prohibitions for hazardous characteristic wastes do not apply to laboratory wastes displaying the characteristic of ignitability (D001), corrosivity (D002), or organic toxicity (D012-D043), that are mixed with other plant wastewaters at facilities whose ultimate discharge is subject to regulation under the CWA (including wastewaters at facilities which have eliminated the discharge of wastewater), provided that the annualized flow of laboratory wastewater into the facility's headworks does not exceed one per cent, or provided that the laboratory wastes' combined annualized average concentration does not exceed one part per million in the facility's headworks.

(f) Universal waste handlers and universal waste transporters (as defined in 260.10) are exempt from 268.7 and 268.50 for the hazardous wastes listed below. These handlers are subject to regulation under Part 273.

(1) Batteries as described in 273.2;

(2) Pesticides as described in 273.3; and

(3) Thermostats as described in 273.4.

(Amended June 19, 1992, August 1, 1995, July 23, 1996, August 21, 1997)

Section 268.2 Definitions applicable to this part.

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

(a) "Halogenated organic compounds" or HOCs means those compounds having a carbon-halogen bond which are listed under Appendix III to this part.

(b) "Hazardous constituent or constituents" means those constituents listed in Appendix VIII to Part 261 of these regulations.

(c) "Land disposal" means placement in or on the land, except in a corrective action management unit, 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.

(d) "Nonwastewaters" are wastes that do not meet the criteria for wastewaters in paragraph (f) of this section.

(e) "Polychlorinated biphenyls or PCBs" are halogenated organic compounds defined in accordance with 761.3.

(f) "Wastewaters" are wastes that contain less than 1% by weight total organic carbon (TOC) and less than 1% by weight total suspended solids (TSS), with the following exceptions:

(1) "F001, F002, F003, F004, F005," wastewaters are solvent-water mixtures that contain less than 1% by weight TOC or less than 1% by weight total F001, F002, F003, F004, F005 solvent constituents listed in §268.41, Table CCWE.

(2) "K011, K013, K014" wastewaters contain less than 5% by weight TOC and less than 1% by weight TSS, as generated.

(3) "K103 and K104" wastewaters contain less than 4% by weight TOC and less than 1% by weight TSS.

(g) "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 Subpart D, Part 268, 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 §268.45 and other material is subject to regulation as debris if the mixture is comprised primarily of debris, by volume, based on visual inspection.

(h) "Hazardous debris" means debris that contains a hazardous waste listed in Subpart D of Part 261 of these regulations, or that exhibits a characteristic of hazardous waste identified in Subpart C of Part 261 of these regulations.

(i) "Underlying hazardous constituent" means any constituent listed in §268.48, Table UTS -Universal Treatment Standards, except 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. (Amended August 1, 1995, July 23, 1996)

Section 268.3 Dilution prohibited as a substitute for treatment.

(a) Except as provided in paragraph (b) of this section, 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 Subpart D of this part, to circumvent the effective date of a prohibition in Subpart C of this part, to otherwise avoid a prohibition in Subpart C of this part, or to circumvent a land disposal prohibition imposed by RCRA §3004.

(b) Dilution of wastes that are hazardous only because they exhibit a characteristic in a treatment system which treats wastes subsequently discharged to a water of the United States pursuant to a permit issued under \$402 of the Clean Water Act (CWA) or which treats wastes for purposes of pretreatment requirements under \$307 of the CWA is not impermissible dilution for purposes of this section unless a method has been specified as the treatment standard in \$268.42, or unless the waste is a D003 reactive cyanide wastewater or nonwastewater. (Amended August 1, 1995)

Section 268.4 Treatment surface impoundment exemption.

(a) Wastes which are otherwise prohibited from land disposal under this part may be treated in a surface impoundment or series of impoundments provided that:

(1) Treatment of such wastes occurs in the impoundments;

(2) The following conditions are met:

(i) Sampling and testing. For wastes with treatment standards in Subpart D of this part and/or prohibition levels in Subpart C of this part or RCRA Section 3004(d), the residues from treatment are analyzed, as specified in §268.7 or §268.32, 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 §264.13 or §265.13, 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 Subpart D of this part; residues which do not meet the prohibition levels established under Subpart C of this part or imposed by statute (where no treatment standards have been established); residues which are from the treatment of wastes prohibited from land disposal under Subpart C of this part (where no treatment standards have been established); or residues which are from the treatment of wastes prohibited from land disposal under Subpart C of this part (where no treatment standards have been established and no prohibition levels apply); or residues from managing listed wastes which are not delisted under §260.22 of these regulations. However, residues which are the subject of a valid certification under §268.8 made no later than a year after placement of the wastes in an impoundment are not required to be removed annually. 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 unless the residues are the subject of a valid certification under §268.8 which allows disposal in surface impoundments meeting the requirements of §268.8(a).

(iv) Recordkeeping. The procedures and schedule for the sampling of impoundment contents, the analysis of test data, and the annual removal of residues which do not meet the treatment standards, or prohibition levels (where no treatment standards have been established), or which are from the treatment of wastes prohibited from land disposal under Subpart C (where no treatment standards have been established and no prohibition levels apply), must be specified in the facility's waste analysis plan as required under §264.13 or §265.13 of these regulations.

(3) The impoundment meets the design requirements of §264.221(a) or §265.221(c) of these regulations, regardless that the unit may not be new, expanded, or a replacement, and be in compliance with applicable ground water monitoring requirements of Subpart F of Part 264 or Part 265 of these regulations unless:

(i) Exempted pursuant to §264.221(d) or (e) of these regulations, or to §265.221(c) or (d) of these regulations or,

(ii) Upon application by the owner or operator, the Secretary, after notice and an opportunity to comment, has granted a waiver of the requirements on the basis that the surface impoundment:

(A) Has at least one liner, for which there is no evidence that such liner is leaking:

(B) Is located more than one-quarter mile from an underground source of drinking waste; and

(C) Is in compliance with generally applicable ground water monitoring requirements for facilities with permits; or,

(iii) Upon application by the owner or operator, the Secretary, after notice and an opportunity to comment, has granted a modification to the requirements on the basis of a demonstration 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.

(4) The owner or operator submits to the Secretary a written certification that the requirements of \$268.4(a)(3) have been met and submits a copy of the waste analysis plan required under \$268.4(a)(2). The following certification is required:

I certify under penalty of law that the requirements of §268.4(a)(3) of these regulations 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.

(b) Evaporation of hazardous constituents as the principal means of treatment is not considered to be treatment for purposes of an exemption under this section.

(Amended August 21, 1997)

Section 268.5 Procedures for Case-by-Case Extensions to an Effective Date

(a) Any person who generates, treats, stores, or disposes of a hazardous waste may submit an application to the Regional Administrator for an extension to the effective date of any applicable restriction established under RCRA Subpart C of this part. The applicant must demonstrate the following:

(1) He has made a good-faith effort to locate and contract with treatment, recovery, or disposal facilities nationwide to manage his waste in accordance with the effective date of the applicable restriction established under RCRA Subpart C of this part;

(2) He has entered into a binding contractual commitment to construct or otherwise provide alternative treatment, recovery (e.g., recycling), or disposal capacity that meets the treatment standards specified in RCRA Subpart D or, where treatment standards have not been specified, such treatment, recovery, or disposal capacity is protective of human health and the environment.

(3) Due to circumstances beyond the applicant's control, such alternative capacity cannot reasonably be made available by the applicable effective date. This demonstration may include a showing that the technical and practical difficulties associated with providing the alternative capacity will result in the capacity not being available by the applicable effective date;

(4) The capacity being constructed or otherwise provided by the applicant will be sufficient to manage the entire quantity of waste that is the subject of the application;

(5) He provides a detailed schedule for obtaining required operating and construction permits or an outline of how and when alternative capacity will be available;

(6) He has arranged for adequate capacity to manage his waste during an extension and has documented in the application the location of all sites at which the waste will be managed; and

(7) Any waste managed in a surface impoundment or landfill during the extension period will meet the requirements of paragraph (h)(2) of this section.

(b) An authorized representative signing an application described under paragraph (a) of this section shall make the following certification:

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the 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.

(c) After receiving an application for an extension, the Regional Administrator may request any additional information which he deems as necessary to evaluate the application.

(d) An extension will apply only to the waste generated at the individual facility covered by the application and will not apply to restricted waste from any other facility.

(e) On the basis of the information referred to in paragraph (a) of this section, after notice and opportunity for comment, and after consultation with appropriate State agencies in all affected States, the Regional Administrator may grant an extension of up to 1 year from the effective date. The Regional Administrator may renew this extension for up to 1 additional year upon the request of the applicant if the demonstration required in paragraph (a) of this section can still be made. In no event will an extension extend beyond 24 months from the applicable effective date specified in Subpart C of Part 268. The length of any extension authorized will be determined by the Regional Administrator based on the time required to construct or obtain the type of capacity needed by the applicant as described in the completion schedule discussed in paragraph (a)(5) of this section. The Regional Administrator will give public notice of the intent to approve or deny a petition and provide an opportunity for public comment. The final decision on a petition will be published in the Federal Register.

(f) Any person granted an extension under this section must immediately notify the Regional Administrator as soon as he has knowledge of any change in the conditions certified to in the application.

(g) Any person granted an extension under this section shall submit written progress reports at intervals designated by the Regional Administrator. Such reports must describe the overall progress made toward constructing or otherwise providing alternative treatment, recovery or disposal capacity; must identify any event which may cause or has caused a delay in the development of the capacity; and must summarize the steps taken to mitigate the delay. The Regional Administrator can revoke the extension at any time if the applicant does not demonstrate a good-faith effort to meet the schedule for completion, if the Agency denies or revokes any required permit, if conditions certified in the application change, or for any violation of these regulations.

(h) Whenever the Regional Administrator establishes an extension to an effective date under this section, during the period for which such extension is in effect:

(1) The storage restrictions under §268.50(a) do not apply; and

(2) Such hazardous waste may be disposed in a landfill or surface impoundment only if such unit is in compliance with the technical requirements of the following provisions regardless of whether such unit is existing, new, or a replacement or lateral expansion.

(i) The landfill, if in interim status, is in compliance with the requirements of Subpart F of Part 265 and §265.301 (a), (c), and (d) of these regulations; or,

(ii) The landfill, if permitted, is in compliance with the requirements of Subpart F of Part 264 and \$264.301(c), (d) and (e) of 40 CFR; or

(iii) The surface impoundment, if in interim status, is in compliance with the requirements of Subpart F of Part 265, §265.221(a), (c), and (d) of these regulations, and RCRA §3005(j)(1); or

(iv) The surface impoundment, if permitted, is in compliance with the requirements of Subpart F of Part 264 and §264.221(c), (d) and (e) of 40 CFR; or

(v) The surface impoundment, if newly subject to RCRA §3005(j)(1) due to the promulgation of additional listings or characteristics for the identification of hazardous waste, is in compliance with the requirements of Subpart F of Part 265 of 40 CFR within 12 months after the promulgation of additional listings or characteristics of hazardous waste, and with the requirements of §265.221(a), (c) and (d) of 40 CFR within 48 months after the promulgation of additional listings or characteristics of hazardous waste. If a national capacity variance is granted, during the period the variance is in effect, the surface impoundment, if newly subject to RCRA §3005(j)(1) due to the promulgation of additional listings or characteristics of hazardous waste, is in compliance with the requirements of Subpart F of Part 265 of 40 CFR within 12 months after the promulgation of additional listings or characteristics of hazardous waste, and with the requirements of \$265.221(a), (c) and (d) additional listings or characteristics of hazardous waste, and with the requirements of \$265.221(a), (c) and (d) of these regulations within 48 months after the promulgation of additional listings or characteristics of hazardous waste, and with the requirements of \$265.221(a), (c) and (d) of these regulations within 48 months after the promulgation of additional listings or characteristics of hazardous waste, or hazardous waste; or

(vi) The landfill, if disposing of containerized liquid hazardous wastes containing PCBs at concentrations greater than or equal to 50 ppm but less than 500 ppm, is also in compliance with the requirements of 40 CFR 761.75 and DRGHW, Parts 264 and 265.

(i) Pending a decision on the application the applicant is required to comply with all restrictions on land disposal under this part once the effective date for the waste has been reached. (Amended August 1, 1995, August 21, 1997)

Section 268.6 Petitions to allow land disposal of a waste prohibited under Subpart C, Part 268.

(a) Any person seeking an exemption from a prohibition under Subpart C of this part for the disposal of a restricted hazardous waste in a particular unit or units must submit a petition to the Administrator demonstrating, to a reasonable degree of certainty, that there will be no migration of hazardous constituents from the disposal unit or injection zone for as long as the wastes remain hazardous. The demonstration must include the following components:

(1) An identification of the specific waste and the specific unit for which the demonstration will be made;

(2) A waste analysis to describe fully the chemical and physical characteristics of the subject waste;

(3) A comprehensive characterization of the disposal unit site including an analysis of background air, soil, and water quality;

(4) A monitoring plan that detects migration at the earliest practicable time;

(5) Sufficient information to assure the Administrator that the owner or operator of a land disposal unit receiving restricted waste(s) will comply with other applicable Federal, State, and local laws.

(b) The demonstration referred to in paragraph (a) of this section must meet the following criteria:

(1) All waste and environmental sampling, test, and analysis data must be accurate and reproducible to the extent that state-of-the-art techniques allow;

(2) All sampling, testing, and estimation techniques for chemical and physical properties of the waste and all environmental parameters must have been approved by the Administrator;

(3) Simulation models must be calibrated for the specific waste and site conditions, and verified for accuracy by comparison with actual measurements;

(4) A quality assurance and quality control plan that addresses all aspects of the demonstration must be approved by the Administrator; and,

(5) An analysis must be performed to identify and quantify any aspects of the demonstration that contribute significantly to uncertainty. This analysis must include an evaluation of the consequences of predictable future events, including, but not limited to, earthquakes, floods, severe storm events, droughts, or other natural phenomena.

(c) Each petition referred to in paragraph (a) of this section must include the following:

(1) A monitoring plan that describes the monitoring program installed at and/or around the unit to verify continued compliance with the conditions of the variance. This monitoring plan must provide information on the monitoring of the unit and/or the environment around the unit. The following specific information must be included in the plan:

(i) The media monitored in the cases where monitoring of the environment around the unit is required;

(ii) The type of monitoring conducted at the unit, in the cases where monitoring of the unit is required;

(iii) The location of the monitoring stations;

(iv) The monitoring interval (frequency of monitoring at each station);

(v) The specific hazardous constituents to be monitored;

(vi) The implementation schedule for the monitoring program;

(vii) The equipment used at the monitoring stations;

(viii) The sampling and analytical techniques employed; and

(ix) The data recording/reporting procedures.

(2) Where applicable, the monitoring program described in paragraph (c)(1) of this section must be in place for a period of time specified by the Administrator, as part of his approval of the petition, prior to receipt of prohibited waste at the unit.

(3) The monitoring data collected according to the monitoring plan specified under paragraph (c)(1) of this section must be sent to the Administrator according to a format and schedule specified and approved in the monitoring plan, and

(4) A copy of the monitoring data collected under the monitoring plan specified under paragraph (c)(1) of this section must be kept on-site at the facility in the operating record.

(5) The monitoring program specified under paragraph (c)(1) of this section meet the following criteria:

(i) All sampling, testing, and analytical data must be approved by the Administrator and must provide data that is accurate and reproducible.

(ii) All estimation and monitoring techniques must be approved by the Administrator.

(iii) A quality assurance and quality control plan addressing all aspects of the monitoring program must be provided to and approved by the Administrator.

(d) Each petition must be submitted to the Administrator.

(e) After a petition has been approved, the owner or operator must report any changes in conditions at the unit and/or the environment around the unit that significantly depart from the conditions described in the variance and affect the potential for migration of hazardous constituents from the units as follows:

(1) If the owner or operator plans to make changes to the unit design, construction, or operation, such a change must be proposed, in writing, and the owner or operator must submit a demonstration to the Administrator at least 30 days prior to making the change. The Administrator will determine whether the proposed change invalidates the terms of the petition and will determine the appropriate response. Any change must be approved by the Administrator prior to being made.

(2) If the owner or operator discovers that a condition at the site which was modeled or predicted in the petition does not occur as predicted, this change must be reported, in writing, to the Administrator within 10 days of discovering the change. The Administrator will determine whether the reported change from the terms of the petition requires further action, which may include termination of waste acceptance and revocation of the petition, petition modifications, or other responses.

(f) If the owner or operator determines that there is migration of hazardous constituent(s) from the unit, the owner or operator must:

(1) Immediately suspend receipt of prohibited waste at the unit, and

(2) Notify the Administrator, in writing, within 10 days of the determination that a release has occurred.

(3) Following receipt of the notification the Administrator will determine, within 60 days of receiving notification, whether the owner or operator can continue to receive prohibited waste in the unit and whether the variance is to be revoked. The Administrator shall also determine whether further examination of any migration is warranted under applicable provisions of Part 264 or Part 265.

(g) Each petition must include the following statement signed by the petitioner or an authorized representative:

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this petition and all attached documents, and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that 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.

(h) After receiving a petition, the Administrator may request any additional information that reasonably may be required to evaluate the demonstration.

(i) If approved, the petition will apply to land disposal of the specific restricted waste at the individual disposal unit described in the demonstration and will not apply to any other restricted waste at that disposal unit, or to that specific restricted waste at any other disposal unit.

(j) The Administrator will give public notice in the Federal Register of the intent to approve or deny a petition and provide an opportunity for public comment. The final decision on a petition will be published in the Federal Register.

(k) The term of a petition granted under this section shall be no longer than the term of the RCRA permit if the disposal unit is operating under a RCRA permit, or up to a maximum of 10 years from the date of approval provided under paragraph (g) of this section if the unit is operating under interim status. In either case, the term of the granted petition shall expire upon the termination or denial of a RCRA permit, or upon the termination of interim status or when the volume limit of waste to be land disposed during the term of petition is reached.

(I) Prior to the Administrator's decision, the applicant is required to comply with all restrictions on land disposal under this part once the effective date for the waste has been reached.

(m) The petition granted by the Administrator does not relieve the petitioner of his responsibilities in the management of hazardous waste under these regulations.

(n) Liquid hazardous wastes containing polychlorinated biphenyls at concentrations greater than or equal to 500 ppm are not eligible for an exemption under this section.

Section 268.7 Waste analysis and recordkeeping.

(a) Except as specified in §268.32, if a generator's waste is listed in Part 261, Subpart D, the generator must test his waste, or test an extract using test method 1311 (the Toxicity Characteristic Leaching Procedure, described in "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods," EPA Publication SW-846 as incorporated by reference in §260.11 of these regulations), or use knowledge of the waste, to determine if the waste is restricted from land disposal under this part. Except as specified in §268.32, if a generator's waste exhibits one or more of the characteristics set out at Part 261, Subpart C, the generator must test an extract using test method 1311 (the Toxicity Characteristic Leaching Procedure, described in "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods" (SW-846)), or use knowledge of the waste, to determine if the waste is restricted from land disposal under this part. If the generator determines that his waste exhibits the characteristic of ignitability (D001) (and is not in the High TOC Ignitable Liquids Subcategory or is not treated by CMBST or RORGS of §268.42, Table 1), or the characteristic of corrosivity (D002), and is prohibited under §268.37; and/or the characteristic of organic toxicity (D012-D043), and is prohibited under §268.20, in the D001, D002, or D012-D043 wastes.

(1) If a generator determines that he is managing a restricted waste under this part and the waste does not meet the applicable treatment standards set forth in Subpart D of this part or it exceeds the applicable prohibition levels set forth in §268.32, or RCRA §3004(d), with each shipment of waste the generator must notify the treatment or storage facility in writing. The notice must include the following:

(i) Hazardous Waste Number;

(ii) The waste constituents that the treater will monitor, if monitoring will not include all regulated constituents, for wastes F001-F005, F039, D001, D002, D012-D043 and in §268.32. Generators must also include whether the waste is a nonwastewater or wastewater (as defined in §268.2 (d) and (f)), and indicate the subcategory of the waste (such as "D003 reactive cyanide"), if applicable;

(iii) The manifest number associated with the shipment of waste;

(iv) For hazardous debris, the contaminants subject to treatment as provided by §268.45(b) and the following statement: "This hazardous debris is subject to the alternative treatment standards of §268.45;"

(v) The waste analysis data, where available; and,

(vi) The date the waste is subject to the prohibitions.

(2) If a generator determines that he is managing a restricted waste under this part, and determines that the waste can be land disposed without further treatment, with each shipment of waste he must submit, to the treatment, storage, or land disposal facility, a notice and a certification stating that the waste meets the applicable treatment standards set forth in Subpart D of this part and the applicable prohibition levels set forth in §268.32. Generators of hazardous debris that is excluded from the definition of hazardous waste under §261.3(e)(2) of these regulations (i.e., debris that the Secretary has determined does not contain hazardous waste), however, are not subject to these notification and certification requirements.

(i) The notice must include the following information:

(A) Hazardous Waste Number;

(B) The waste constituents that the treater will monitor, if monitoring will not include all regulated constituents, for wastes F001-F005, F039, D001, D002, D012-D043 and §268.32 or RCRA §3004(d). Generators must also include whether the waste is a nonwastewater or wastewater (as defined in §268.2(d) and (f)), and indicate the subcategory of the waste (such as "D002 reactive cyanide"), if applicable;

(C) The manifest number associated with the shipment of waste;

(D) Waste analysis data, where available.

(ii) The certification must be signed by an authorized representative and must state the following:

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 Part 268, Subpart D and all applicable prohibitions set forth in §268.32 or RCRA §3004(d). 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.

(3) If a generator's waste is subject to an exemption from a prohibition on the type of land disposal method utilized for the waste (such as, but not limited to, a case-by-case extension under §268.5, an exemption under §268.6, or a nationwide capacity variance under Subpart C of this part), with each shipment of waste he must submit a notice to the facility receiving his waste stating that the waste is not prohibited from land disposal. The notice must include the following information:

(i) EPA Hazardous Waste Number;

(ii) The waste constituents that the treater will monitor, if monitoring will not include all regulated constituents, for wastes F001-F005, F039, D001, D002, and D012-D043. Generators must also include whether the waste is a nonwastewater or wastewater (as defined in §268.2(d) and (f)), and indicate the subcategory of the waste (such as "D003 reactive cyanide"), if applicable;

(iii) The manifest number associated with the shipment of waste;

(iv) Waste analysis data, where available;

(v) For hazardous debris when using the alternative treatment technologies provided by \$268.45:

(A) The contaminants subject to treatment, as described in §268.45(b); and

(B) An indication that these contaminants are being treated to comply with §268.45.

(vi) For hazardous debris when using the treatment standards for the contaminating waste(s) in \$268.40: the requirements described in paragraphs (a)(3)(i), (ii), (iii), (iv) and (vii) of this section; and (viii) The data the waste is subject to the predictions

(vii) The date the waste is subject to the prohibitions.

(4) If a generator is managing prohibited waste in tanks, containers, or containment buildings regulated under §262.34, and is treating such waste in such tanks, containers, or containment buildings to meet applicable treatment standards under Subpart D of this part, the generator must develop and follow a written waste analysis plan which describes the procedures the generator will carry out to comply with the treatment standards. (Generators treating hazardous debris under the alternative treatment standards of Table 1, §268.45, 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 Part, including the selected testing frequency.

(ii) Such plan must be filed with the Secretary a minimum of 30 days prior to the treatment activity, with delivery verified.

(iii) Wastes shipped off-site pursuant to this paragraph must comply with the notification requirements of §268.7(a)(2).

(5) If a generator determines whether the waste 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 whether the waste is restricted based on testing this waste or an extract developed using the test method described in Appendix I of this part, all waste analysis data must be retained on-site in the generator's files.

(6) If a generator determines that he is managing a restricted waste that is excluded from the definition of hazardous or solid waste or exempt from regulation, under §§ 261.2 through 261.6 subsequent to the point of generation, he must place a one-time notice stating such generation, subsequent exclusion from the definition of hazardous or solid waste or exemption from regulation, and the disposition of the waste, in the facility's file.

(7) Generators must retain on-site a copy of all notices, certifications, demonstrations, waste analysis data, and other documentation produced pursuant to this section for at least five 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 five year record retention period is automatically extended during the course of any unresolved enforcement action regarding the regulated activity or as requested by the Secretary. The requirements of this paragraph 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 §§ 261.2 through 261.6, or exempted from regulation, subsequent to the point of generation.

(8) If a generator is managing a lab pack that contains none of the wastes specified in Appendix IV of Part 268, and wishes to use the alternative treatment standard under §268.42(c), with each shipment of waste the generator must submit a notice to the treatment facility in accordance with paragraph (a)(1) of this section, except that underlying hazardous constituents need not be determined. The generator must also comply with the requirements in paragraphs (a)(5) and (a)(6) of this section and must submit the following certification, which must be signed by an authorized representative:

I certify under penalty of law that I personally have examined and am familiar with the waste and that the lab pack does not contain any wastes identified at Appendix IV to Part 268. I am aware that there are significant penalties for submitting a false certification including possibility of fine or imprisonment.

(9) [Reserved]

(10) The use of tolling agreements by small quantity hazardous waste generators is prohibited in the State of Delaware.

(b) Treatment facilities must test their wastes according to the frequency specified in their waste analysis plans as required by 264.13 or 265.13. Such testing must be performed as provided in paragraphs (b)(1), (b)(2) and (b)(3) of this section.

(1) For wastes with treatment standards expressed as concentrations in the waste extract (§268.41), the owner or operator of the treatment facility must test the treatment residues, or an extract of such residues developed using the test method described in Appendix I of this part, to assure that the treatment residues or extract meet the applicable treatment standards.

(2) For wastes that are prohibited under §268.32 of this part, or RCRA §3004(d) but not subject to any treatment standards under Subpart D of this part, the owner or operator of the treatment facility must test the treatment residues according to the generator testing requirements specified in §268.32 to assure that the treatment residues comply with the applicable prohibitions.

(3) For wastes with treatment standards expressed as concentrations in the waste (§268.43), the owner or operator of the treatment facility must test the treatment residues (not an extract of such residues) to assure that the treatment residues meet the applicable treatment standards.

(4) A notice must be sent with each waste shipment to the land disposal facility which includes the following information, except that debris excluded from the definition of hazardous waste under §261.3(e) of these regulations (i.e., debris treated by an extraction or destruction technology provided by Table 1, §268.45, and debris that the Secretary has determined does not contain hazardous waste) is subject to the notification and certification requirements of paragraph (d) of this section rather than these notification requirements:

(i) EPA Hazardous Waste Number;

(ii) The waste constituents to be monitored, if monitoring will not include all regulated constituents, for wastes F001-F005, F039, D001, D002, D012-D043 and in §268.32. Generators must also include whether the waste is a nonwastewater or wastewater (as defined in §268.2(d) and (f), and indicate the subcategory of the waste (such as D003 reactive cyanide), if applicable.

(iii) The manifest number associated with the shipment of waste; and

(iv) Waste analysis data, where available.

(5) The treatment facility must submit a certification with each shipment of waste or treatment residue of a restricted waste to the land disposal facility stating that the waste or treatment residue has been treated in compliance with the applicable performance standards specified in Subpart D of this part and the applicable prohibitions set forth in §268.32 or RCRA §3004(d). Debris excluded from the definition of hazardous waste under §261.3(e) of these regulations (i.e., debris treated by an extraction or destruction technology provided by Table 1, §268.45, and debris that the Director has determined does not contain hazardous waste), however, is subject to the notification and certification requirements of paragraph (d) of this section rather than the certification requirements of this paragraph (b)(5).

(i) For wastes with treatment standards expressed as concentrations in the waste extract or in the waste (§268.41 or §268.43), or for wastes prohibited under §268.32 of this part or RCRA §3004(d) which are not subject to any treatment standards under Subpart D of this part, the certification must be signed by an authorized representative and 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 and that, based on my inquiry of those individuals immediately responsible for obtaining this information. I believe that the treatment process has been operated and maintained properly so as to comply with the

performance levels specified in 40 CFR Part 268, Subpart D, and all applicable prohibitions set forth in 40 CFR §268.32 or RCRA §3004(d) without impermissible dilution of the prohibited waste. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment. (ii) For wastes with treatment standards expressed as technologies (§268.42), the certification must be signed by an authorized representative and must state the following:

I certify under penalty of law that the waste has been treated in accordance with the requirements of 40 CFR §268.42. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment.

(iii) For wastes with treatment standards expressed as concentrations in the waste pursuant to §268.43, if compliance with the treatment standards in Subpart D of this part is based in part or in whole on the analytical detection limit alternative specified in §268.43(c), the certification also 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 and that, based on my inquiry of those individuals immediately responsible for obtaining this information, I believe that the nonwastewater organic constituents have been treated by incineration in units operated in accordance with 40 CFR Part 264, Subpart O) or 40 CFR Part 265, Subpart O, or by combustion in fuel substitution units operating in accordance with applicable technical requirements, and I have been unable to detect the nonwastewater organic constituents despite having used best good faith efforts to analyze for such constituents. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment.

(iv) For characteristic wastes D001, D002, and D012-D043 that are: subject to the treatment standards in \$268.40 (other than those expressed as a required method of treatment); that are reasonably expected to contain underlying hazardous constituents as defined in \$268.2(i); 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 §268.40 to remove the hazardous characteristic. This decharacterized waste contains underlying hazardous constituents that require further treatment to meet universal treatment standards. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment.

(6) If the waste or treatment residue will be further managed at a different treatment or storage 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 section.

(7) Where the wastes are recyclable materials used in a manner constituting disposal subject to the provisions of §266.20(b) regarding treatment standards and prohibition levels, the owner or operator of a treatment facility (i.e., the recycler) is not required to notify the receiving facility, pursuant to paragraph (b)(4) of this section. With each shipment of such wastes the owner or operator of the recycling facility must submit a certification described in paragraph (b)(5) of this section, and a notice which includes the information listed in paragraph (b)(4) of this section (except the manifest number) to the Secretary, or his delegated representative. The recycling facility also must keep records of the name and location of each entity receiving the hazardous waste-derived product.

(c) Except where the owner or operator is disposing of any waste that is a recyclable material used in a manner constituting disposal pursuant to §266.20(b), the owner or operator of any land disposal facility disposing any waste subject to restrictions under this part must:

(1) Have copies of the notice and certifications specified in paragraph (a) or (b) of this section, and the certification specified in §268.8 if applicable.

(2) Test the waste, or an extract of the waste or treatment residue developed using the test method described in Appendix I of this part or using any methods required by generators under §268.32 of this part, to assure that the wastes or treatment residues are in compliance with the applicable treatment standards set forth in Subpart D of this part and all applicable prohibitions set forth in §268.32 of this part or in RCRA §3004(d). Such testing must be performed according to the frequency specified in the facility's waste analysis plan as required by §264.13 or §265.13.

(d) Generators or treaters who first claim that hazardous debris is excluded from the definition of hazardous waste under §261.3(e) of these regulations (i.e., debris treated by an extraction or destruction technology provided by Table 1, §268.45, and debris that the Secretary has determined does not contain hazardous waste) are subject to the following notification and certification requirements:

(1) A one-time notification, including the following information, must be submitted to the Secretary:

(i) The name and address of the Subtitle D facility receiving the treated debris;

(ii) A description of the hazardous debris as initially generated, including the applicable DNREC Hazardous Waste Number(s); and

(iii) For debris excluded under §261.3(e)(1) of these regulations, the technology from Table 1, §268.45, used to treat the debris.

(2) The notification must be updated if the debris is shipped to a different facility, and, for debris excluded under §261.2(e)(1) of these regulations, if a different type of debris is treated or if a different technology is used to treat the debris.

(3) For debris excluded under §261.3(e)(1) of these regulations, the owner or operator of the treatment facility must document and certify compliance with the treatment standards of Table 1, §268.45, as follows:

(i) 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 §268.45. I am aware that there are significant penalties for making a false certification, including the possibility of fine and imprisonment." (Amended August 1, 1995, July 23, 1996, August 21, 1997)

Section 268.8 Landfill and Surface Impoundment Disposal Regulations

(a) Prior to May 8, 1990, wastes which are otherwise prohibited from land disposal under 268.33(f) of this part may be disposed in a landfill or surface impoundment which is in compliance with the requirements of 268.5(h)(2) provided that the requirements of this section are met. As of May 8, 1990, this section is no longer in effect.

(1) Prior to such disposal, the generator has made a good faith effort to locate and contract with treatment and recovery facilities practically available which provide the greatest environmental benefit.

(2) If a generator determines that there is no practically available treatment for his waste, he must fulfill the following specific requirements:

(i) Prior to the initial shipment of waste, the generator must submit a demonstration to the Secretary that includes: a list of facilities and facility officials contacted, addresses, telephone numbers, and contact dates, as well as a written discussion of why he was not able to obtain treatment or recovery for that waste. The generator must also provide to the Secretary the following certification:

I certify under penalty of law that the requirements of §268.8(a)(1) have been met and that disposal in a landfill or surface impoundment is the only practical alternative to treatment currently available. I believe that the information submitted is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

The generator does not need to wait for Secretary approval of the demonstration/certification before shipment of the waste. However, if the Secretary invalidates the demonstration/certification for the reasons outlined in §268.8(b)(2), the generator must immediately cease further shipments of the waste, and immediately inform all facilities that received the waste of such invalidation, and keep records of such communication on-site in his files.

(ii) With the initial shipment of waste, the generator must submit a copy of the demonstration and the certification discussed above in §268.8(a)(2)(i) to the receiving facility. With each subsequent waste shipment, only the certification is required to be submitted provided that the conditions being certified remain unchanged. Such a generator must retain on-site a copy of the demonstration (if applicable) and certification required for each waste shipment for at least five years from the date that the waste that is the subject of such documentation was last sent to on-site or off-site disposal. The five-year record retention requirement is automatically extended during the course of any unresolved enforcement action regarding the regulated activity or as requested by the Secretary.

(3) If a generator determines that there are practically available treatments for his waste, he must contract to use the practically available technology that yields the greatest environmental benefit. He must also fulfill the following specific requirements:

(i) The generator must submit to the Secretary, prior to the initial shipment of waste, a demonstration that includes: a list of facilities and facility officials contacted, addresses, telephone numbers, and contact dates, as well as a written discussion explaining why the treatment or recovery technology chosen provides the greatest environmental benefit. The generator must also provide to the Secretary the following certification:

I certify under penalty of law that the requirements of §268.8(a)(1) have been met and that I have contracted to treat my waste (or otherwise provide treatment) by the practically available technology which yields the greatest environmental benefit, as indicated in my demonstration. I believe that the information submitted is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

The generator does not need to wait for Secretary approval of the demonstration/certification before shipment of the waste.

(ii) With the initial shipment of waste, the generator must submit to the receiving facility a copy of the demonstration and the certification discussed above in §268.8(a)(3)(i). With each subsequent waste shipment, only the certification is required to be submitted provided that the conditions being certified remain unchanged. Such a generator must retain on-site a copy of the demonstration (if applicable) and certification required for each waste shipment for at least five years from the date that the waste that is the subject of such documentation was last sent to on-site or off-site disposal. The five-year record retention requirement is automatically extended during the course of any unresolved enforcement action regarding the regulated activity or as requested by the Administrator.

(4) Where the generator has determined that there is practically available treatment for his waste prior to disposal, with the initial shipment of waste, such generator must submit a copy of the demonstration and the certification required in paragraph (a)(2)(B) of this section to the receiving facility. With each subsequent waste shipment, only the certification is required to be submitted provided that the conditions being certified remain unchanged. Such a generator must retain on-site a copy of the demonstration (if applicable) and certification required for each waste shipment for at least five years from the date that the waste that is the subject of such documentation was last sent to on-site or off-site disposal. The five-year record retention requirement is automatically extended during the course of any unresolved enforcement action regarding the regulated activity or as requested by the Administrator.

EPA ARCHIVE DOCUMENT

(b) After receiving the demonstration and certification, the Secretary may request any additional information which he deems necessary to evaluate the certification, and submit a new demonstration and certification as provided in §268.8(a) to the receiving facility.

(1) A generator who has submitted a certification under this section must immediately notify the Secretary when he has knowledge of any change in the conditions which formed the basis of his certification.

(2) If, after review of the certification, the Administrator determines that practically available treatment exists where the generator has certified otherwise, or that there exists some other method of practically available treatment yielding greater environmental benefit than that which the generator has certified, the Secretary may invalidate the certification.

(3) If the Secretary invalidates a certification, the generator must immediately cease further shipments of the waste, and inform all facilities that received the waste of such invalidation and keep records of such communication on-site in his files.

(c) A treatment, recovery or storage facility receiving wastes subject to a valid certification must keep copies of the generator's demonstration (if applicable) and certification in his operating record.

(1) The owner or operator of a treatment or recovery facility must certify that he has treated the waste in accordance with the generator's demonstration. The following certification is required:

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 that, based on my inquiry of those individuals immediately responsible for obtaining this information, I believe that the treatment process has been operated and maintained properly so as to comply with treatment as specified in the generator's demonstration. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

(2) The owner or operator of a treatment, recovery or storage facility must, for each initial shipment of waste, send a copy of the generator's demonstration (if applicable) and certification under \$268.8(a)(2)(i) or \$268.8(a)(3)(i) and certification under \$268.8(c)(1) (if applicable) to the facility receiving the waste or treatment residues. With each subsequent waste shipment, only the certification is required to be submitted provided that the conditions being certified remain unchanged.

(d) The owner or operator of a disposal facility must ensure that those wastes prohibited under \$268.33(f) are subject to a certification according to the requirements of this section prior to disposal in a landfill or surface impoundment, and that the units receiving such wastes must meet the minimum technological requirements of \$268.5(h)(2).

(e) Once the certification is received by the Secretary, and provided that the wastes have been treated by the treatment (if any), determined by the generator to yield the greatest environmental benefit practically available, the wastes or treatment residuals may be disposed in a landfill or surface impoundment unit meeting the requirements of 268.5(h)(2), unless otherwise prohibited by the Secretary.

(Amended August 21, 1997)

Section 268.9 Special Rules Regarding Wastes that Exhibit a Characteristic

(a) 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 Subpart D of this part. For purposes of Part 268, the waste will carry the waste code for any applicable listing under Part 261, Subpart D. In addition, the waste will carry one or more of the waste codes under Part 261, Subpart C, where the waste exhibits a characteristic, except in the case when the treatment standard for the waste listed in Part 261, Subpart D operates in lieu of the treatment standard for the waste under Part 261, Subpart C, as specified in paragraph (b) of this section. If the generator determines that his waste displays the characteristic of ignitability (D001) (and is not in the High TOC Ignitable Liquids Subcategory or is not treated by CMBST, or RORGS), or the characteristic of toxicity (D002), and is prohibited under §268.37; or that his waste displays the characteristic of toxicity (D012-D043), and is prohibited under §268.38, the generator must determine the underlying hazardous constituents (as defined in §268.2), in the D001, D002, or D012-D043 wastes.

(b) Where a prohibited waste is both listed under 40 CFR Part 261, Subpart D and exhibits a characteristic under 40 CFR Part 261, Subpart C, the treatment standard for the waste code listed in Part 261, Subpart D will operate in lieu of the standard for the waste code under 40 CFR Part 261, Subpart C, 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.

(c) In addition to any applicable standards determined from the initial point of generation, no prohibited waste which exhibits a characteristic under 40 CFR Part 261, Subpart C may be land disposed unless the waste complies with the treatment standards under Subpart D of this part.

(d) Wastes that exhibit a characteristic are also subject to §268.7 requirements, except that once the waste is no longer hazardous, a one-time notification and certification must be placed in the generators or treaters files and sent to the EPA Region and DNREC. The notification and certification that is placed in the generators or treaters files must be updated if the process or operation generating the waste changes and/or if the RCRA Subtitle D facility receiving the waste changes. However, the generator or treater need only notify the EPA Region and DNREC on an annual basis if such changes occur. Such notification and certification should be sent to the EPA Region and DNREC by the end of the calendar year, but no later than December 31.

(1) The notification must include the following information:

(i) Name and address of the RCRA Subtitle D facility receiving the waste shipment;

(ii) A description of the waste as initially generated, including the applicable Hazardous Waste Number(s), treatability group(s), and underlying hazardous constituents (as defined in §268.2(i) in D001 and D002 wastes prohibited under §268.37, or D012-D043 wastes under §268.38; and

(iii) The treatment standards applicable to the waste at the point of generation.

(2) The certification must be signed by an authorized representative and must state the language found in §268.7(b)(5).

(i) If treatment removes the characteristic but does not treat underlying hazardous constituents, then the certification found in §268.7(b)(5)(iv) applies.

(ii) [Reserved]

(Amended August 1, 1995, July 23, 1996, August 21, 1997)

Sections 268.10 - 268.12 [Reserved]

Section 268.13 Schedule for wastes identified or listed after November 8, 1984.

In the case of any hazardous waste identified or listed under §3001 after November 8, 1984, the Administrator shall make a land disposal prohibition determination within 6 months after the date of identification or listing.

Section 268.14 Surface impoundment exemptions.

(a) This section defines additional circumstances under which an otherwise prohibited waste may continue to be placed in a surface impoundment.

(b) Wastes which are newly identified or listed under §3001 after November 8, 1984, and stored in a surface impoundment that is newly subject to Subtitle C of RCRA 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, not withstanding that the waste is otherwise prohibited from land disposal, provided that the surface impoundment is in compliance with the requirements of Subpart F of Part 265 of these regulations within 12 months after promulgation of the new listing or characteristic.

(c) Wastes which are newly identified or listed under §3001 after November 8, 1984, and treated in a surface impoundment that is newly subject to Subtitle C of RCRA as a result of the additional identification or listing, may continue to be treated in that surface impoundment, not withstanding that the waste is otherwise prohibited from land disposal, provided that surface impoundment is in

compliance with the requirements of Subpart F of Part 265 of these regulations 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 §268.4. (Amended August 1, 1995)

Subpart C - Prohibitions on Land Disposal

Section 268.30 Waste specific prohibitions -- Solvent wastes.

(a) Effective November 8, 1986, the spent solvent wastes specified in §261.31 of these regulations as DNREC Hazardous Waste Nos. F001, F002, F003, F004, and F005, are prohibited under this part from land disposal (except in an injection well) unless one or more of the following conditions apply:

(1) The generator of the solvent waste is a small quantity generator of 100-1000 kilograms of hazardous waste per month; or

(2) The solvent waste is generated from any response action taken under the Comprehensive Environmental Response, Compensation and Liability Act of 1980 (CERCLA) or any corrective action taken under 7 <u>Del. C.</u>, Chapter 63, except where the waste is contaminated soil or debris; or

(3) The initial generator's solvent waste is a solvent-water mixture, solvent-containing sludge or solid, or solvent-contaminated soil (non-CERCLA or 7 <u>Del. C.</u>, Chapter 63 corrective action) containing less than 1 percent total F001-F005 solvent constituents listed in Table CCWE of \$268.41 of these regulations; or

(4) The solvent waste is a residue from treating a waste described in paragraphs (a)(1), (a)(2), or (a)(3) of this section; or the solvent waste is a residue from treating a waste not described in paragraphs (a)(1), (a)(2), or (a)(3) of this section provided such residue belongs to a different treatability group than the waste as initially generated and wastes belonging to such a treatability group are described in paragraph (a)(3) of this section.

(b) Effective November 8, 1988, the F001-F005 solvent wastes listed in paragraphs (a)(1), (2), (3), or (4) of this section are prohibited from land disposal.

(c) Effective November 8, 1990, the F001-F005 solvent wastes which are contaminated soil and debris resulting from a response action taken under §104 or §106 of the Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA) or a corrective action required under Subtitle C of the Resource Conservation and Recovery Act (RCRA) and the residues from treating these wastes are prohibited from land disposal. Between November 8, 1988, and November 8, 1990, these wastes may be disposed in a landfill or surface impoundment only if such unit is in compliance with the requirements specified in §268.5(h)(2).

(d) The requirements of paragraphs (a), (b), and (c) of this section do not apply if:

(1) The wastes meet the standards of Subpart D of this part; or

(2) Persons have been granted an exemption from a prohibition pursuant to a petition under §268.6, with respect to those wastes and units covered by the petition; or

(3) Persons have been granted an extension to the effective date of a prohibition pursuant to \$268.5, with respect to those wastes and units covered by the extension.

(Amended June 19, 1992, August 21, 1997)

Section 268.31 Waste specific prohibitions -- Dioxin-containing wastes.

(a) Effective November 8, 1988, the dioxin-containing wastes specified in §261.31 as DNREC Hazardous Waste Nos. F020, F02I, F022, F023, F026, F027, and F028, are prohibited from land disposal unless the following condition applies:

(1) The F020-F023 and F026-F028 dioxin-containing waste is contaminated soil and debris resulting from a response action taken under §§104 or 106 of the Comprehensive Environmental Response,

Compensation, and Liability Act of 1980 (CERCLA) or a corrective action taken under 7 <u>Del. C.</u>, Chapter 63.

(b) Effective November 8, 1990, the F020-F023 and F026-F028 dioxin-containing wastes listed in paragraph (a)(1) of this section are prohibited from land disposal.

(c) Between November 8, 1988, and November 8, 1990, wastes included in paragraph (a)(1) of this section may be disposed in a landfill or surface impoundment only if such unit is in compliance with the requirements specified in 268.5(h)(2) and all other applicable requirements of Parts 264 and 265 of these regulations.

(d) The requirements of paragraphs (a) and (b) of this section do not apply if:

(1) The wastes meet the standards of Subpart D of this part; or

(2) Persons have been granted an exemption from a prohibition pursuant to a petition under §268.6, with respect to those wastes and units covered by the petition; or

(3) Persons have been granted an extension to the effective date of a prohibition pursuant to \$268.5, with respect to those wastes covered by the extension. (Amended June 19, 1992)

Section 268.32 Waste Specific Prohibitions--California List Wastes.

(a) Effective July 8, 1987, the following hazardous wastes are prohibited from land disposal (except in injection wells):

(1) Liquid hazardous wastes having a Ph less than or equal to two (2.0);

(2) Liquid hazardous wastes containing polychlorinated biphenyls (Pcb) at concentrations greater than or equal to 50 ppm;

(3) Liquid hazardous wastes that are primarily water and contain halogenated organic compounds (HOCs) in total concentration greater than or equal to 1,000 mg/l and less than 10,000 mg/l HOCs.

(b) - (c) [Reserved]

(d) The requirements of paragraphs (a) and (e) of this section do not apply until:

(1) July 8, 1989 where the wastes are contaminated soil or debris not resulting from a response action taken under §§104 or 106 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) or a corrective action taken under Subtitle C of the Resource Conservation and Recovery Act (RCRA). Between July 8, 1987 and July 8, 1989, the wastes may be disposed in a landfill or surface impoundment only if such disposal is in compliance with the requirements specified in §268.5(h)(2).

(2) November 8, 1990 where the wastes are contaminated soil or debris resulting from a response action taken under \$\$104 or 106 of CERCLA or a corrective action taken under Subtitle C of RCRA. Between November 8, 1988, and November 8, 1990, the wastes may be disposed in a landfill or surface impoundment only if such unit is in compliance with the requirements specified in \$268.5(h)(2).

(e) Effective November 8, 1988, the following hazardous wastes are prohibited from land disposal (subject to any regulations that may be promulgated with respect to disposal in injection wells):

(1) Liquid hazardous wastes that contain HOCs in total concentration greater than or equal to 1,000 mg/1 and are not prohibited under paragraph (a)(3) of this section; and

(2) Nonliquid hazardous wastes containing HOCs in total concentration greater than or equal to 1,000 mg/kg and are not wastes described in paragraph (d) of this section.

(f) Between July 8, 1987 and November 8, 1988, the wastes included in paragraphs (e)(1) and (e)(2) of this section may be disposed in a landfill or surface impoundment only if such unit is in compliance with the requirements specified in §268.5(h)(2).

(g) The requirements of paragraphs (a), (d), and (e) of this section do not apply if:

(1) Persons have been granted an exemption from a prohibition pursuant to a petition under §268.6, with respect to those wastes and units covered by the petition (except for liquid hazardous wastes

containing polychlorinated biphenyls at concentrations greater than or equal to 500 ppm which are not eligible for such exemptions); or

(2) Persons have been granted an extension to the effective date of a prohibition pursuant to \$268.5, with respect to those wastes covered by the extension; or

(3) The wastes meet the applicable standards specified in Subpart D of this part or, where treatment standards are not specified, the wastes are in compliance with the applicable prohibitions set forth in this section or RCRA §3004(d).

(h) The prohibitions and effective dates specified in paragraphs (a)(3), (d), and (e) of this section do not apply where the waste is subject to a Part 268 Subpart C prohibition and effective date for a specified HOC (such as a hazardous waste chlorinated solvent, see e.g., §268.30(a)).

(i) To determine whether or not a waste is a liquid under paragraphs (a) and (e) of this section and under RCRA §3004(d), the following test must be used: Method 9095 (Paint Filter Liquids Test) as described in "Test Methods for Evaluating Solid Wastes, Physical/Chemical Methods," EPA Publication No. SW-846.

(j) Except as otherwise provided in this paragraph, the waste analysis and recordkeeping requirements of §268.7 are applicable to wastes prohibited under this part or RCRA §3004(d):

(1) The initial generator of a liquid hazardous waste must test his waste (not an extract or filtrate) in accordance with the procedures specified in \$261.22(a)(1), or use knowledge of the waste, to determine if the waste has a Ph less than or equal to two (2.0). If the liquid waste has a Ph less than or equal to two (2.0), it is restricted from land disposal and all requirements of Part 268 are applicable, except as otherwise specified in this section.

(2) The initial generator of either a liquid hazardous waste containing polychlorinated biphenyls (Pcb) or a liquid or nonliquid hazardous waste containing halogenated organic compounds (HOCs) must test his waste (not an extract or filtrate), or use knowledge of the waste, to determine whether the concentration levels in the waste equal

or exceed the prohibition levels specified in this section. If the concentration of Pcb or HOCs in the waste is greater than or equal to the prohibition levels specified in this section, the waste is restricted from land disposal and all requirements of Part 268 are applicable, except as otherwise specified in this section.

(Amended June 19, 1992, August 21, 1997)

Section 268.33 Waste Specific Prohibitions--First Third Wastes.

(a) Effective August 8, 1988, the wastes specified in \$261.32 as DNREC Hazardous Waste Nos. F006 (nonwastewater), K001, K004 wastes specified in \$268.43(a), K008 wastes specified in \$268.43(a), K016, K018, K019, K020, K021 wastes specified in \$268.43(a), K022 (nonwastewater), K024, K025 nonwastewaters specified in \$268.43(a), K030, K036 (nonwastewater), K037, K044, K045, nonexplosive K046 (nonwastewater), K047, K060 (nonwastewater), K061 (nonwastewaters containing less than 15% zinc), K062, non CaS0₄ K069 (nonwastewaters), K086 (solvent washes), K087, K099, K100 nonwastewaters specified in \$268.43(a), K101 (wastewater), K101 (nonwastewater, low arsenic subcategory -- less than 1% total arsenic), K102 (wastewater), K102 (nonwastewater, low arsenic subcategory -- less than 1% total arsenic), K103, and K104 are prohibited from land disposal (except in an injection well).

(1) Effective August 8, 1988 and continuing until August 7, 1990, K061 wastes containing 15% zinc or greater are prohibited from land disposal pursuant to the treatment standards specified in §268.41 applicable to K061 wastes that contain less than 15% zinc.

(b) Effective August 8, 1990, the waste specified in §261.32 as DNREC Hazardous Waste Nos. K071 is prohibited from land disposal.

(c) Effective August 8, 1990, the wastes specified in §268.10 having a treatment standard in Subpart D of this part based on incineration and which are contaminated soil and debris are prohibited from land disposal.

(d) Between November 8, 1988 and August 8, 1990, wastes included in paragraphs (b) and (c) of this section may be disposed of in a landfill or surface impoundment only if such unit is in compliance with the requirements specified in 268.5(h)(2).

(e) The requirements of paragraphs (a), (b), (c), and (d) of this section do not apply if:

(1) The wastes meet the applicable standards specified in Subpart D of this part; or

(2) Persons have been granted an exemption from a prohibition pursuant to a petition under §268.6, with respect to those wastes and units covered by the petition; or

(3) Persons have been granted an extension to the effective date of a prohibition pursuant to \$268.5, with respect to those wastes covered by the extension.

(f) Between August 8, 1988, and May 8, 1990, the wastes specified in §268.10 for which treatment standards under Subpart D of this part have not been promulgated, including those wastes which are subject to the prohibitions of RCRA §3004(d) or §268.32 of this part, but not including wastes subject to a treatment standard under §268.42 of this part, are prohibited from disposal in a landfill or surface impoundment unless a demonstration and certification have been submitted to §268.8.

(g) To determine whether a hazardous waste listed in §268.10 exceeds the applicable treatment standards specified in §268.41 and §268.43, the initial generator must test a representative 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 Subpart D levels, the waste is prohibited from land disposal and all requirements of Part 268 are applicable, except as otherwise specified.

(Amended August 21, 1997)

Section 268.34 Waste Specific Prohibitions--Second Third Wastes.

(a) Effective June 8, 1989, the following wastes specified in §261.31 as DNREC Hazardous Waste Nos. F010; F024; the wastes specified in §261.32 as DNREC Hazardous Waste Nos. K005, K007; K009 (nonwastewaters), K010; K023; K027; K028; K029 (nonwastewaters); K036 (wastewaters); K038; K039; K040; K043; K093; K094; K095 (nonwastewaters); K096 (nonwastewaters); K113; K114; K115; K116; and the wastes specified in §261.33

as DNREC Hazardous Waste Nos. P013; P021; P029; P030; P039; P040; P041; P043; P044; P062; P063; P071; P074; P085; P089; P094: P097; P098; P099; P104; P106; P109; P111; P121; U028; U058; U069; U087; U088; U102; U107; U221; U223; and U235 are prohibited from land disposal.

(b) Effective June 8, 1989, the following wastes specified in §261.32 as DNREC Hazardous Waste Nos. K009 (wastewaters), K011 (nonwastewaters), K013 (nonwastewaters), and K014 (nonwastewaters) are prohibited from land disposal except when they are underground injected pursuant to 40 CFR §§ 148.14(f) and 148.15(d).

(c) Effective July 8, 1989, the wastes specified in §261.31 as DNREC Hazardous Waste Nos. F006 -- cyanide (nonwastewater); F008; F009; F011 (wastewaters) and F012 (wastewaters) are prohibited from land disposal.

(1) Effective July 8, 1989, the following waste specified in §261.31 as DNREC Hazardous Waste No. F007 is prohibited from land disposal except when it is underground injected pursuant to 40 CFR §148.14(f).

(2) Effective July 8, 1989 and continuing until December 8, 1989, F011 (nowastewaters) and F012 (nonwastewaters) are prohibited from land disposal pursuant to the treatment standards specified in §§268.41 and 268.43 applicable to F007, F008, and F009 nonwastewaters. Effective December 8, 1989 F011 (nowastewaters) and F012 (nonwastewaters) are prohibited from land disposal pursuant to the treatment standards specified in §§268.41 and 268.43 applicable to F012 (nonwastewaters) are prohibited from land disposal pursuant to the treatment standards specified in §§268.41 and 268.43 applicable to F011 (nonwastewaters) and F012 (nonwastewaters) .

(d) Effective June 8, 1991, the wastes specified in this section having a treatment standard in Subpart D of this part based on incineration, and which are contaminated soil and debris are prohibited from land disposal.

(e) Between June 8, 1989 and June 8, 1991, (for wastes F007, F008, F009, F011, and F012 between June 8, 1989 and July 8, 1989) wastes included in paragraphs (c) and (d) of this section may be disposed in a landfill or surface impoundment, regardless whether such unit is a new, replacement, or lateral expansion unit, only if such unit is in compliance with the technical requirements specified in §268.5(h)(2).

(f) The requirements of paragraphs (a), (b), (c), and (d) of this section do not apply if:

(1) The wastes meet the applicable standards specified in Subpart D of this part; or

(2) Persons have been granted an exemption from a prohibition pursuant to a petition under §268.6, with respect to those wastes and units covered by the petition.

(g) The requirements of paragraphs (a), (b), and (c) of this section do not apply if persons have been granted an extension to the effective date of a prohibition pursuant to §268.5, with respect to those wastes covered by the extension.

(h) Between June 8, 1989 and May 8, 1990, the wastes specified in §268.11 for which treatment standards under Subpart D of this part are not applicable, including California list wastes subject to the prohibitions of RCRA §3004(d) or §268.32, are prohibited from disposal in a landfill or surface impoundment unless the wastes are the subject of a valid demonstration and certification pursuant to §268.8.

(i) To determine whether a hazardous waste listed in §§268.10, 268.11, and 268.12 exceeds the applicable treatment standards specified in §§268.41 and 268.43, the initial generator must test a representative 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 Subpart D levels, the waste is prohibited from land disposal and all requirements of {art 268 are applicable, except as otherwise specified.

(Amended August 21, 1997)

Section 268.35 Waste Specific Prohibitions--Third Third Wastes

(a) Effective August 8, 1990, the following wastes specified in §261.31 as EPA Hazardous Waste Numbers F002 (1,1,2-trichloroethane), F005 (benzene), F005 (2-ethoxy ethanol) F005 (2-nitropropane), F006 (wastewaters), F019, F025, and F039 (wastewaters); the wastes specified in §261.32 as EPA Hazardous Waste Numbers K002; K003; K004 (wastewaters); K005 (wastewaters); K006; K008 (wastewaters); K011 (wastewaters); K013 (wastewaters); K014 (wastewaters); K015 (nonwastewaters); K017; K021 (wastewaters); K022 (wastewaters); K025 (wastewaters); K026; K029 (wastewaters); K031 (wastewaters); K032; K033; K034; K035; K041; K042; K046 (wastewaters, reactive nonwastewaters); K052 (wastewaters); K049 (wastewaters); K050 (wastewaters); K051 (wastewaters); K052 (wastewaters); K060 (wastewaters); K061 (wastewaters) and (high zinc subcategory > 15% zinc); K069 (wastewaters); K096 (wastewaters); K097; K098; K100 (wastewaters); K101 (wastewaters); K102 (wastewaters); K105; and K106

(wastewaters); the wastes specified in §261.33(e) as EPA Hazardous Waste Numbers P001; P002; P003; P004; P005; P006; P007; P008; P009; P010 (wastewaters); P011 (wastewaters); P012 (wastewaters); P014; P015; P016; P017; P018; P020; P022; P023; P024; P026; P027; P028; P031; P033; P034; P036 (wastewaters); P037; P038 (wastewaters); P042; P045; P046; P047; P048; P049; P050; P051; P054; P056; P057; P058; P059; P060; P064; P065 (wastewaters); P066; P067; P068; P069; P070; P072; P073; P075; P076; P077; P078; P081; P082; P084; P088; P092 (wastewaters); P093; P095; P096; P101; P102; P103; P105; P108; P110; P112; P113; P114; P115; P116; P118; P119; P120; P122; and P123; and the wastes specified in §261.33(f) as EPA Hazardous Waste Numbers U001; U002; U003; U004; U005; U006; U007; U008; U009; U010; U011; U012; U014; U015; U016; U017; U018; U019; U020; U021; U022; U023; U024; U025; U026; U027; U029; U030; U031; U032; U033; U034; U035; U036; U037; U038; U039; U041; U042; U043; U044; U045; U046; U047; U048; U049; U050; U051; U052; U053; U055; U056; U057; U059; U060;

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U061; U062; U063; U064; U066; U067; U068; U070; U071; U072; U073; U074; U075; U076; U077; U078; U079; U080; U081; U082; U083; U084; U085; U086; U089; U090; U091; U092; U093; U094; U095; U096; U097; U098; U099; U101; U103; U105; U106; U108; U109; U110; U111; U112; U113; U114; U115; U116; U117; U118; U119; U120; U121; U122; U123; U124; U125; U126; U127; U128; U129; U130; U131; U132; U133; U134; U135; U136 (wastewaters); U137; U138; U140; U141; U142; U143; U144; U145; U146; U147; U148; U149; U150; U151 (wastewaters); U152; U153; U154; U155; U156; U157; U158; U159; U160; U161; U162; U163; U164; U165; U166; U167; U168; U169; U170; U171; U172; U173; U174; U176; U177; U178; U179; U180; U181; U182; U183; U184; U185; U186; U187; U188; U189; U191; U192; U193; U194; U196; U197; U200; U201; U202; U203; U204; U205; U206; U207; U208; U209; U210; U211; U213; U214; U215; U216; U217; U218; U219; U220; U222; U225; U226; U227; U228; U234; U236; U237; U238; U239; U240; U243; U244; U246; U247; U248; U249; and the following wastes identified as hazardous based on a characteristic alone: D001; D002, D003, D004 (wastewaters), D005, D006; D007; D008 (except for lead materials stored before secondary smelting), D009 (wastewaters), D010, D011, D012, D013, D014, D015, D016, and D017 are prohibited from land disposal.

(b) Effective November 8, 1990, the following wastes specified in §261.32 as EPA Hazardous Waste Numbers K048 (nonwastewaters), K049 (nonwastewaters), K050 (nonwastewaters), K051 (nonwastewaters), and K052 (nonwastewaters) are prohibited from land disposal.

(c) Effective May 8, 1992, the following waste specified in §261.31 as DNREC Hazardous Waste Numbers F039 (nonwastewaters); the wastes specified in §261.32 as DNREC Hazardous Waste Numbers K031 (nonwastewaters); K084 (nonwastewaters); K101 (nonwastewaters); K102 (nonwastewaters); K106 (nonwastewaters); the wastes specified in §261.33(e) as DNREC Hazardous Waste Numbers P010 (nonwastewaters); P011 (nonwastewaters); P012 (nonwastewaters); P036 (nonwastewaters); P038 (nonwastewaters); P065 (nonwastewaters); P087; and P092 (nonwastewaters); the wastes specified in §261.33(f) as DNREC Hazardous Waste Numbers U136 (nonwastewaters); and U151 (nonwastewaters); the following wastes identified as hazardous based on a characteristic alone: D004 (nonwastewaters); D009 (nonwastewaters); and RCRA hazardous wastes that contain naturally occurring radioactive materials are prohibited from land disposal.

(d) Effective May 8, 1992, hazardous wastes listed in 40 CFR §§ 268.10, 268.11, and 268.12 that are mixed radioactive/hazardous wastes are prohibited from land disposal, except as provided in paragraph (e) of this section.

(e) Subject to applicable prohibitions in §§268.30, 268.31, and 268.32, contaminated soil and debris are prohibited from land disposal as follows:

(1) Effective May 8, 1994, debris that is contaminated with wastes listed in 40 CFR §268.12, and debris that is contaminated with any characteristic waste for which treatment standards are established in Subpart D of this part, are prohibited from land disposal.

(2) Effective May 8, 1994, mixed radioactive hazardous debris that is contaminated with wastes listed in 40 CFR §268.12 and mixed radioactive hazardous debris that is contaminated with any characteristic waste for which treatment standards are established in Subpart D of this part, are prohibited from land disposal.

(3) Paragraphs (e)(1) and (2) of this section shall not apply where the generator has failed to make a good-faith effort to locate treatment capacity suitable for its waste, has not utilized such capacity as it has found to be available, or has failed to file a report as required by §268.5(g) by August 12, 1993 or within 90 days after the hazardous waste is generated (whichever is later) describing the generator's efforts to locate treatment capacity. Where paragraphs (e)(1) and (2) of this section do not apply, all wastes described in these paragraphs are prohibited from land disposal effective May 8, 1993.

(4) Effective May 8, 1993, hazardous soil contaminated with wastes specified in this section having treatment standards in Subpart D of this part based on incineration, mercury reporting or vitrification,

and soils contaminated with hazardous wastes listed in 40 CFR §§ 268.10, 268.11 and 268.12 that are mixed radioactive wastes, are prohibited from land disposal.

(5) When used in paragraphs (e)(1) and (2) of this section, debris is defined as follows:

(i) Debris as defined in §268.2(g); or

(ii) Nonfriable inorganic solids that are incapable of passing through a 9.5 mm standard sieve that require cutting, or crushing and grinding in mechanical sizing equipment prior to stabilization, limited to the following inorganic or metal materials:

(A) Metal slags (either dross or scoria).

(B) Glassified slag.

(C) Glass.

(D) Concrete (excluding cementitious or pozzolanic stabilized hazardous wastes).

(E) Masonry and refractory bricks.

(F) Metal cans, containers, drums, or tanks.

(G) Metal nuts, bolts, pipes, pumps, valves, appliances, or industrial equipment.

(H) Scrap metal as defined in §261.1(c)(6).

(f) Between May 8, 1990 and August 8, 1990, the wastes included in paragraph (a) may be disposed of in a landfill or surface impoundment only if such unit is in compliance with the requirements specified in §268.5(h)(2).

(g) Between May 8, 1990 and November 8, 1990, wastes included in paragraph (b) of this section may be disposed of in a landfill or surface impoundment only if such unit is in compliance with the requirements specified in 268.5(h)(2).

(h) Between May 8, 1990, and May 8, 1992, wastes included in paragraphs (c), (d), and (e) of this section may be disposed of in a landfill or surface impoundment only if such unit is in compliance with the requirements specified in §268.5(h)(2).

(i) The requirements of paragraphs (a), (b), (c), (d), and (e) of this section do not apply if:

(1) The wastes meet the applicable standards specified in Subpart D of this part;

(2) Persons have been granted an exemption from a prohibition pursuant to a petition under §268.6, with respect to those wastes and units covered by the petition;

(3) The wastes meet the applicable alternate standards established pursuant to a petition granted under §268.44;

(4) Persons have been granted an extension to the effective date of a prohibition pursuant to \$268.5, with respect to these wastes covered by the extension.

(j) To determine whether a hazardous waste listed in §§ 268.10, 268.11, and 268.12 exceed the applicable treatment standards specified in §§ 268.41 and 268.43, the initial generator must test a representative 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 Subpart D levels, the waste is prohibited from land disposal, and all requirements of Part 268 are applicable, except as otherwise specified.

(k) Effective May 8, 1993, D008 lead materials stored before secondary smelting are prohibited from land disposal. On or before March 1, 1993, the owner or operator of each secondary lead smelting facility shall submit to DNREC the following: A binding contractual commitment to construct or otherwise provide capacity for storing such D008 wastes prior to smelting which complies with all applicable storage standards; documentation that the capacity to be provided will be sufficient to manage the entire quantity of such D008 wastes; and a detailed schedule for providing such capacity. Failure by a facility to submit such documentation shall render such D008 managed by that facility prohibited from land disposal effective March 1, 1993. In addition, no later than July 27, 1992 the owner or operator of each facility must place in the facility record documentation of the manner and location in which such wastes will be managed pending completion of such capacity, demonstrating that such management capacity will be adequate and complies with all applicable requirements. (Amended August 1, 1995, August 21, 1997)

Section 268.36 Waste specific prohibitions-newly listed wastes.

(a) Effective November 9, 1992, the wastes specified in §261.32 as DNREC Hazardous Waste Numbers K107, K108, K109, K110, K111, K112, K117, K118, K123, K124, K125, K126, K131, K132, and K136; and the wastes specified in §261.33(f) as DNREC Hazardous Waste numbers U328, U353, and U359 are prohibited from land disposal.

(b) Effective June 30, 1993, the wastes specified in §261.31 as DNREC Hazardous Waste Numbers F037 and F038 that are not generated from surface impoundment cleanouts or closures are prohibited from land disposal.

(c) Effective June 30, 1994, the wastes specified in §261.31 as DNREC Hazardous Waste Numbers F037 and F038 that are generated from surface impoundment cleanouts or closures are prohibited from land disposal.

(d) Effective June 30, 1994, radioactive wastes that are mixed with hazardous wastes specified in §261.31 as DNREC Hazardous Waste Numbers F037 and F038; the wastes specified in §261.32 as DNREC Hazardous Waste Numbers K107, K108, K109, K110, K111, K112, K117, K118, K123, K124, K125, K126, K131, K132, and K136; or the wastes specified in §261.33(f) as DNREC Hazardous Waste Numbers U328, U353, and U359 are prohibited from land disposal.

(e) Effective June 30, 1994, debris contaminated with hazardous wastes specified in §261.31 as DNREC Hazardous Waste Numbers F037 and F038; the wastes specified in §261.32 as DNREC Hazardous Waste Numbers K107, K108, K109, K110, K111, K112, K117, K118, K123, K124, K125, K126 K131, K132, and K136; or the wastes specified in §261.33(f) as DNREC Hazardous Waste Numbers U328, U353, and U359; and which is not contaminated with any other waste already subject to a prohibition are prohibited from land disposal.

(f) Between June 30, 1992 and June 30, 1993, the wastes included in paragraph (b) of this section may be disposed of in a landfill, only if such unit is in compliance with the requirements specified in \$ 268.5(h)(2), and may be generated in and disposed of in a surface impoundment only if such unit is in compliance with either \$ 268.5(h)(2) or \$ 268.14.

(g) Between June 30, 1992 and June 30, 1994, the wastes included in paragraphs (d) and (e) of this section may be disposed of in a landfill only if such unit is in compliance with the requirements specified in § 268.5(h)(2), and may be generated in and disposed of in a surface impoundment only if such unit is in compliance with either § 268.5(h)(2) or § 268.14.

(h) The requirements of paragraphs (a), (b), (c), (d), and (e) of this section do not apply if:

(1) The wastes meet the applicable standards specified in subpart D of this part;

(2) Persons have been granted an exemption from a prohibition pursuant to a petition under § 268.6, with respect to those wastes and units covered by the petition;

(3) The wastes meet the applicable alternate standards established pursuant to a petition granted under § 268.44;

(4) Persons have been granted an extension to the effective date of a prohibition pursuant to § 268.5, with respect to the wastes covered by the extension.

(i) To determine whether a hazardous waste identified in this section exceeds the applicable treatment standards specified in §§ 268.41 and 268.43, the initial generator must test a representative 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 levels in subpart D of this part, the waste is prohibited from land disposal, and all requirements of part 268 are applicable, except as otherwise specified.

(Amended August 1, 1995)

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Section 268.37 Waste specific prohibitions - ignitable and corrosive characteristic wastes whose treatment standards were vacated.

(a) Effective August 9, 1993, the wastes specified in §261.21 as D001 (and is not in the High TOC Ignitable Liquids Subcategory), and specified in §261.22 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.

(b) Effective February 10, 1994, the wastes specified in §261.21 as D001 (and is not in the High TOC Ignitable Liquids Subcategory), and specified in §261.22 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. (Amended August 1, 1995)

§268.38 Waste specific prohibitions-newly identified organic toxicity characteristic wastes and newly listed coke by-product and chlorotoluene production wastes.

(a) Effective December 19, 1994, the wastes specified in §261.32 as Hazardous Waste numbers K141, K142, K143, K144, K145, K147, K148, K149, K150, and K151 are prohibited from land disposal. In addition, debris contaminated with Hazardous Waste numbers 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 §261.24, Table 1 as Hazardous Waste numbers: 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.

(b) 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.

(c) Between December 19, 1994 and September 19, 1996, the wastes included in paragraphs (b) of this section may be disposed in a landfill or surface impoundment, only if such unit is in compliance with the requirements specified in \$268.5(h)(2) of this part.

(d) The requirements of paragraphs (a), (b), and (c) of this section do not apply if:

(1) The wastes meet the applicable treatment standards specified in Subpart D of this part;

(2) Persons have been granted an exemption from a prohibition pursuant to a petition under §268.6, with respect to those wastes and units covered by the petition;

(3) The wastes meet the applicable alternate treatment standards established pursuant to a petition granted under §268.44;

(4) Persons have been granted an extension to the effective date of a prohibition pursuant to §268.5, with respect to these wastes covered by the extension.

(e) To determine whether a hazardous waste identified in this section exceeds the applicable treatment standards specified in §268.40, 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 Subpart D levels, the waste is prohibited from land disposal, and all requirements of Part 268 are applicable, except as otherwise specified. (Amended July 23, 1996)

Subpart D - Treatment Standards

Section 268.40 Applicability of treatment standards.

(a) A 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:

(1) 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

(2) 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

(3) The waste must be treated using the technology specified in the table ("technology standard"), which are described in detail in §268.42, Table 1-Technology Codes and Description of Technology-Based Standards.

(b) 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, as incorporated by reference in §260.11, 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 1310, 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 §268.42(b).

(c) 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.

(d) Notwithstanding the prohibitions specified in paragraph (a) of this section, treatment and disposal facilities may demonstrate (and certify pursuant to §268.7(b)(5)) compliance with the treatment standards for organic constituents specified by a footnote in the table "Treatment Standards for Hazardous Wastes" in this section, provided the following conditions are satisfied:

(1) The treatment standards for the organic constituents were established based on incineration in units operated in accordance with the technical requirements of Part 264, Subpart O, or based on combustion in fuel substitution units operating in accordance with applicable technical requirements;

(2) The treatment or disposal facility has used the methods referenced in paragraph (d)(1) of this section to treat the organic constituents; and

(3) The treatment or disposal facility may demonstrate compliance with organic constituents if goodfaith analytical efforts achieve detection limits for the regulated organic constituents that do not exceed the treatment standards specified in this section by an order of magnitude.

(e) For characteristic wastes (D001, D002, and D012-D043 that are subject to treatment standards in the following table "Treatment Standards for Hazardous Wastes," all underlying hazardous constituents (as defined in §268.2(i)) must meet Universal Treatment Standards, found in §268.48, Table UTS, prior to land disposal.

(f) 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, as incorporated by reference in §260.11. 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.

Treatment Standards for Hazardous Wastes

Note: The treatment standards that heretofore appeared in tables in §§ 268.41, 268.42, and 268.43 of this part have been consolidated into the table "Treatment Standards for Hazardous Wastes" in this section.

		REGULATED HAZARDOUS	S CONSTITUENT	WASTEWATERS	NONWASTEWATERS
Waste Code	Waste Description and Treatment/Regulatory Subcategory ¹	Common Name	CAS ² Number	Concentration mg/l ³ ; or Technology Code ⁴	Concentration in mg/kg ⁵ unless noted as "mg/l TCLP" or Technology Code
D001	Ignitable Characteristic Wastes, except for the § 261.21(a)(1) High TOC Subcategory, that are managed in non- CWA/non-CWA-equivalent/non-Class I SDWA systems.	NA	NA	DEACT and meet § 268.48 standards; or RORGS; or CMBST	DEACT and meet § 268.48 standards; or RORGS; or CMBST
	Ignitable Characteristic Wastes, except for the § 261.21(a)(1) High TOC Subcategory, that are managed in CWA/CWA-equivalent/Class I SDWA systems	NA	NA	DEACT	DEACT
	High TOC Ignitable Characteristic Liquids Subcategory based on §261.21(a)(1) - Greater than or equal to 10% total organic carbon. (Note: This subcategory consists of nonwastewaters only.)	NA	NA	NA	RORGS; or CMBST
D002	Corrosive Characteristic Wastes that are managed in non- CWA/non-CWA equivalent/non-Class I SDWA systems.	NA	NA	DEACT and meet § 268.48 standards	DEACT and meet § 268.48 standards
	Corrosive Characteristic Wastes that are managed in CWA, CWA equivalent, or Class I SDWA systems.	NA	NA	DEACT	DEACT
D002, D004,	Radioactive high level wastes generated during the reprocessing of fuel rods. (Note: This subcategory consists of nonwastewaters only.)	Corrosivity (pH)	NA	NA	HLVIT
D005, D006, D007, D008,		Arsenic	7440-38-2	NA	HLVIT
D009, D010, D011		Barium	7440-39-3	NA	HLVIT
		Cadmium	7440-43-9	NA	HLVIT
		Chromium (Total)	7440-47-3	NA	HLVIT
	•	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	Reactive Sulfides Subcategory based on 261.23(a)(5).	NA	NA	DEACT	DEACT

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	Waste Description and Treatment/Regulatory Subcategory ¹	REGULATED HAZARDOUS CONSTITUENT		WASTEWATERS	NONWASTEWATERS
Waste Code		Common Name	CAS ² Number	Concentration mg/l ³ ; or Technology Code ⁴	Concentration in mg/kg ⁵ unless noted as "mg/l TCLP" or Technology Code
	Explosives Subcategory based on 261.23(a)(6), (7), and (8).	NA	NA	DEACT	DEACT
	Other Reactives Subcategory based on 261.23(a)(1).	NA	NA	DEACT	DEACT
	Water Reactive Subcategory based on 261.23(a)(2), (3), and (4). (Note: This subcategory consists of nonwastewaters only.)	NA	NA	NA	DEACT
	Reactive Cyanides Subcategory based on 261.23(a)(5).	Cyanides (Total) ⁷	57-12-5	Reserved	590
		Cyanides (Amenable) ⁷	57-12-5	0.86	30
D004	Wastes that exhibit, or are expected to exhibit, the characteristic of toxicity for arsenic based on the extraction procedure (EP) in SW846 Method 1310.	Arsenic	7440-38-2	5.0	5.0 mg/l EP
		Arsenic; alternate ⁶ standard for nonwastewaters only.	7440-38-2	NA	5.0 mg/l TCLP
D005	Wastes that exhibit, or are expected to exhibit, the characteristic of toxicity for barium based on the extraction procedure (EP) in SW846 Method 1310.	Barium	7440-39-3	100	100 mg/l TCLP
D006	Wastes that exhibit, or are expected to exhibit, the characteristic of toxicity for cadmium based on the extraction procedure (EP) in SW846 Method 1310.	Cadmium	7440-43-9	1.0	1.0 mg/l TCLP
	Cadmium Containing Batteries Subcategory (Note: This subcategory consists of nonwastewaters only.)	Cadmium	7440-43-9	NA	RTHRM
D007	Wastes that exhibit, or are expected to exhibit, the characteristic of toxicity for chromium based on the extraction procedure (EP) in SW846 Method 1310.	Chromium (Total)	7440-47-3	5.0	5.0 mg/l TCLP
D008	D008 Wastes that exhibit, or are expected to exhibit, the characteristic of toxicity for lead based on the extraction procedure (FP) in SW846 Method 1310.		7439-92-1	5.0	5.0 mg/l EP

TREATMENT STANDARDS FOR HAZARDOUS WASTES

Part 268-30

	Waste Description and Treatment/Regulatory Subcategory ¹	REGULATED HAZARDOUS CONSTITUENT		WASTEWATERS	NONWASTEWATERS
Waste Code		Common Name	CAS ² Number	Concentration mg/l ³ ; or Technology Code ⁴	Concentration in mg/kg ⁵ unless noted as "mg/l TCLP" or Technology Code
		Lead; alternate ⁶ standard for nonwastewaters only	7439-92-1	NA	5.0 mg/l TCLP
	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 40 CFR 268 or exempted under other EPA regulations (see 40 CFR 266.80).). (Note: This subcategory consists of nonwastewaters only.)	Lead	7439-92-1	NA	RLEAD
	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.). (Note: This subcategory consists of nonwastewaters only.)	Lead	7439-92-1	NA	MACRO
D009	Nonwastewaters that exhibit, or are expected to exhibit, the characteristic of toxicity for mercury based on the extraction procedure (EP) in SW846 Method 1310; 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 extraction procedure (EP) in SW846 Method 1310; 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

		REGULATED HAZARDOU	S CONSTITUENT	WASTEWATERS	NONWASTEWATERS
Waste Code	Waste Description and Treatment/Regulatory Subcategory ¹	Common Name	CAS ² Number	Concentration mg/l ³ ; or Technology Code ⁴	Concentration in mg/kg ⁵ unless noted as "mg/l TCLP" or Technology Code
	Nonwastewaters that exhibit, or are expected to exhibit, the characteristic of toxicity for mercury based on the extraction procedure (EP) in SW846 Method 1310; and contain less than 260 mg/kg total mercury. (Low Mercury Subcategory)	Mercury	7439-97-6	NA	0.20 mg/l TCLP
	All D009 wastewaters.	Mercury	7439-97-6	0.20	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
D010	Wastes that exhibit, or are expected to exhibit, the characteristic of toxicity for selenium based on the extraction procedure (EP) in SW846 Method 1310.	Selenium	7782-49-2	1.0	5.7 mg/l TCLP
D011	Wastes that exhibit, or are expected to exhibit, the characteristic of toxicity for silver based on the extraction procedure (EP) in SW846 Method 1310.	Silver	7440-22-4	5.0	5.0 mg/l TCLP
D012	Wastes that are TC for Endrin based on the TCLP in SW846 Method 1311.	Endrin	72-20-8	BIODG; or INCIN	0.13 and meet § 268.48 standards
		Endrin aldehyde	7421-93-4	BIODG; or INCIN	0.13 and meet § 268.48 standards
D013	Wastes that are TC for Lindane based on the TCLP in SW846 Method 1311.	alpha-BHC	319-84-6	CARBN; or INCIN	0.066 and meet § 268.48 standards
		beta-BHC	319-85-7	CARBN; or INCIN	0.066 and meet § 268.48 standards

	REGULATED HAZARDOUS CONSTITU		CONSTITUENT	WASTEWATERS	NONWASTEWATERS
Waste Code	Waste Description and Treatment/Regulatory Subcategory ¹	Common Name	CAS ² Number	Concentration mg/l ³ ; or Technology Code ⁴	Concentration in mg/kg ⁵ unless noted as "mg/l TCLP" or Technology Code
		delta-BHC	319-86-8	CARBN; or INCIN	0.066 and meet § 268.48 standards
		gamma-BHC (Lindane)	58-89-9	CARBN; or INCIN	0.066 and meet § 268.48 standards
D014	Wastes that are TC for Methoxychlor based on the TCLP in SW846 Method 1311.	Methoxychlor	72-43-5	WETOX or INCIN	0.18 and meet § 268.48 standards
D015	Wastes that are TC for Toxaphene based on the TCLP in SW846 Method 1311.	Toxaphene	8001-35-2	BIODG or INCIN	2.6 and meet § 268.48 standards
D016	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- Dichlorophenoxyac etic acid)	94-75-7	CHOXD, BIODG, or INCIN	10 and meet § 268.48 standards
D017	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 INCIN	7.9 and meet § 268.48 standards
D018	Wastes that are TC for Benzene based on the TCLP in SW846 Method 1311 and that are managed in non-CWA/non-CWA equivalent/non-Class I SDWA systems only.	Benzene	71-43-2	0.14 and meet § 268.48 standards	10 and meet § 268.48 standards
D019	Wastes that are TC for Carbon tetrachloride based on the TCLP in SW846 Method 1311 and that are managed in non- CWA/non-CWA equivalent/non-Class I SDWA systems only.	Carbon tetrachloride	56-23-5	0.057 and meet § 268.48 standards	6.0 and meet § 268.48 standards
D020	Wastes that are TC for Chlordane based on the TCLP in SW846 Method 1311 and that are managed in non-CWA/non-CWA equivalent/non-Class I SDWA systems only.	Chlordane (alpha and gamma isomers)	57-74-9	0.0033 and meet § 268.48 standards	0.26 and meet § 268.48 standards
D021	Wastes that are TC for Chlorobenzene based on the TCLP in SW846 Method 1311 and that are managed in non-CWA/non-CWA equivalent/non-Class I SDWA systems only.	Chlorobenzene	108-90-7	0.057 and meet § 268.48 standards	6.0 and meet § 268.48 standards

		REGULATED HAZARDOUS CONSTITUENT		WASTEWATERS	NONWASTEWATERS
Waste Code	Waste Description and Treatment/Regulatory Subcategory ¹	Common Name	CAS ² Number	Concentration mg/l ³ ; or Technology Code ⁴	Concentration in mg/kg ⁵ unless noted as "mg/l TCLP" or Technology Code
D022	Wastes that are TC for Chloroform based on the TCLP in SW846 Method 1311 and that are managed in non-CWA/non-CWA equivalent/non-Class I SDWA systems only.	Chloroform	67-66-3	0.046 and meet § 268.48 standards	6.0 and meet § 268.48 standards
D023	Wastes that are TC for o-Cresol based on the TCLP in SW846 Method 1311 and that are managed in non-CWA/non-CWA equivalent/non-Class I SDWA systems only.	o-Cresol	95-48-7	0.11 and meet § 268.48 standards	5.6 and meet § 268.48 standards
D024	Wastes that are TC for m-Cresol based on the TCLP in SW846 Method 1311 and that are managed in non-CWA/non-CWA equivalent/non-Class I SDWA systems only.	m-Cresol (difficult to distinguish from p-cresol)	108-39-4	0.77 and meet § 268.48 standards	5.6 and meet § 268.48 standards
D025	Wastes that are TC for p-Cresol based on the TCLP in SW846 Method 1311 and that are managed in non-CWA/non-CWA equivalent/non-Class I SDWA systems only.	p-Cresol (difficult to distinguish from m-cresol)	106-44-5	0.77 and meet § 268.48 standards	5.6 and meet § 268.48 standards
D026	Wastes that are TC for Cresols (Total) based on the TCLP in SW846 Method 1311 and that are managed in non-CWA/non-CWA equivalent/non-Class I SDWA systems only.	Cresol-mixed isomers (Cresylic acid) (sum of o-, m-, and p-cresol concentrations)	1319-77-3	0.88 and meet § 268.48 standards	11.2 and meet § 268.48 standards
D 027	Wastes that are TC for p-Dichlorobenzene based on the TCLP in SW846 Method 1311 and that are managed in non-CWA/non- CWA equivalent/non-Class I SDWA systems only.	p-Dichlorobenzene (1,4- Dichlorobenzene)	106-46-7	0.090 and meet § 268.48 standards	6.0 and meet § 268.48 standards
D 028	Wastes that are TC for 1,2-Dichloroethane based on the TCLP in SW846 Method 1311 and that are managed in non-CWA/non- CWA equivalent/non-Class I SDWA systems only.	1,2- Dichloroethane	107-06-2	0.21 and meet § 268.48 standards	6.0 and meet § 268.48 standards
D029	Wastes that are TC for 1,1-Dichloroethylene based on the TCLP in SW846 Method 1311 and that are managed in non- CWA/non-CWA equivalent/non-Class I SDWA systems only.	1,1- Dichloroethylene	75-35-4	0.025 and meet § 268.48 standards	6.0 and meet § 268.48 standards
D0 3 0	Wastes that are TC for 2,4-Dinitrotoluene based on the TCLP in SW846 Method 1311 and that are managed in non-CWA/non- CWA equivalent/non-Class I SDWA systems only.	2,4- Dinitrotoluene	121-14-2	0.32 and meet § 268.48 standards	140 and meet § 268.48 standards

		REGULATED HAZARDOU	REGULATED HAZARDOUS CONSTITUENT		NONWASTEWATERS
Waste Code	Waste Description and Treatment/Regulatory Subcategory ¹	Common Name	CAS ² Number	Concentration mg/l ³ ; or Technology Code ⁴	Concentration in mg/kg ⁵ unless noted as "mg/l TCLP" or Technology Code
D0 3 1	Wastes that are TC for Heptachlor based on the TCLP in SW846 Method 1311 and that are managed in non-CWA/non-CWA equivalent/non-Class I SDWA systems only.	Heptachlor	76-44-8	0.0012 and meet § 268.48 standards	0.066 and meet § 268.48 standards
		Heptachlor epoxide	1024-57-3	0.016 and meet § 268.48 standards	0.066 and meet § 268.48 standards
D032	Wastes that are TC for Hexachlorobenzene based on the TCLP in SW846 Method 1311 and that are managed in non-CWA/non- CWA equivalent/non-Class I SDWA systems only.	Hexach lorobenzene	118-74-1	0.055 and meet § 268.48 standards	10 and meet § 268.48 standards
D033	Wastes that are TC for Hexachlorobutadiene based on the TCLP in SW846 Method 1311 and that are managed in non- CWA/non-CWA equivalent/non-Class I SDWA systems only.	Hexachlorobutadie ne	87-68-3	0.055 and meet § 268.48 standards	5.6 and meet § 268.48 standards
D034	Wastes that are TC for Hexachloroethane based on the TCLP in SW846 Method 1311 and that are managed in non-CWA/non- CWA equivalent/non-Class I SDWA systems only.	Hexachloroethane	67-72-1	0.055 and meet § 268.48 standards	30 and meet § 268.48 standards
D035	Wastes that are TC for Methyl ethyl ketone based on the TCLP in SW846 Method 1311 and that are managed in non- CWA/non-CWA equivalent/non-Class I SDWA systems only.	Methyl ethyl ketone	78-93-3	0.28 and meet § 268.48 standards	36 and meet § 268.48 standards
D036	Wastes that are TC for Nitrobenzene based on the TCLP in SW846 Method 1311 and that are managed in non-CWA/non-CWA equivalent/non-Class I SDWA systems only.	Nitrobenzene	98-95-3	0.068 and meet § 268.48 standards	14 and meet § 268.48 standards
D037	Wastes that are TC for Pentachlorophenol based on the TCLP in SW846 Method 1311 and that are managed in non-CWA/non- CWA equivalent/non-Class I SDWA systems only.	Pentachlorophenol	87-86-5	0.089 and meet § _268.48 standards	7.4 and meet § 268.48 standards
D038	Wastes that are TC for Pyridine based on the TCLP in SW846 Method 1311 and that are managed in non-CWA/non-CWA equivalent/non-Class I SDWA systems only.	Pyridine	110-86-1	0.014 and meet § 268.48 standards	16 and meet § 268.48 standards
D039	Wastes that are TC for Tetrachloroethylene based on the TCLP in SW846 Method 1311 and that are managed in non- CWA/non-CWA equivalent/non-Class I SDWA systems only.	Tetrachloroethyle ne	127-18-4	0.056 and meet § 268.48 standards	6.0 and meet § 268.48 standards
		REGULATED HAZARDOUS	S CONSTITUENT	WASTEWATERS	NONWASTEWATERS
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Waste Code	Waste Description and Treatment/Regulatory Subcategory ¹	Common Name	CAS ² Number	Concentration mg/l ³ ; or Technology Code ⁴	Concentration in mg/kg ⁵ unless noted as "mg/l TCLP" or Technology Code
D040	Wastes that are TC for Trichloroethylene based on the TCLP in SW846 Method 1311 and that are managed in non-CWA/non- CWA equivalent/non-Class I SDWA systems only.	Trichloroethylene	79-01-6	0.054 and meet § 268.48 standards	6.0 and meet § 268.48 standards
D041	Wastes that are TC for 2,4,5-Trichlorophenol based on the TCLP in SW846 Method 1311 and that are managed in non- CWA/non-CWA equivalent/non-Class I SDWA systems only.	2,4,5- Trichlorophenol	95-95-4	0.18 and meet § 268.48 standards	7.4 and meet § 268.48 standards
D042	Wastes that are TC for 2,4,6-Trichlorophenol based on the TCLP in SW846 Method 1311 and that are managed in non- CWA/non-CWA equivalent/non-Class I SDWA systems only.	2,4,6- Trichlorophenol	88-06-2	0.035 and meet § 268.48 standards	7.4 and meet § 268.48 standards
D043	Wastes that are TC for Vinyl chloride based on the TCLP in SW846 Method 1311 and that are managed in non-CWA/non-CWA equivalent/non-Class I SDWA systems only.	Vinyl chloride	75-01-4	0.27 and meet § 268.48 standards	6.0 and meet § 268.48 standards
F001, F002,	F001, F002, F003, F004 and/or F005 solvent wastes that	Acetone	67-64-1	0.28	160
F003, F004, & F005	contain any combination of one or more of the following spent solvents: acetone, benzene, n-butyl alcohol, carbon	Benzene	71-43-2	0.14	10
	disulfide, carbon tetrachloride, chlorinated fluorocarbons, chlorobenzene, o-cresol, m-cresol, p-cresol, cyclohexanone,	n-Butyl alcohol	71-36-3	5.6	2.6
	o-dichlorobenzene, 2-ethoxyethanol, ethyl acetate, ethyl benzene, ethyl ether, isobutyl alcohol, methanol, methylene	Carbon disulfide	75-15-0	3.8	NA
	chloride, methyl ethyl ketone, methyl isobutyl ketone, nitrobenzene, 2-nitropropane, pyridine, tetrachloroethylene, toluene, 1,1,1-trichloroethane, 1,1,2-	Carbon tetrachloride	56-23-5	0.057	6.0
	trichloroethane, 1,1,2-trichloro- 1,2,2-trifluoroethane, trichloroethylene, trichloromonofluoromethane, and/or	Chlorobenzene	108-90-7	0.057	6.0
	xylenes (except as specifically noted in other subcategories). See further details of these listings in §	o-Cresol	95-48-7	0.11	5.6
261.31	261.31	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

		REGULATED HAZARDOUS CONSTITUENT		WASTEWATERS	NONWASTEWATERS
Waste Code	Code Waste Description and Treatment/Regulatory Subcategory ¹	Common Name	CAS ² Number	Concentration mg/l ³ ; or Technology Code ⁴	Concentration in mg/kg ⁵ unless noted as "mg/l TCLP" or Technology Code
		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
		Tetrachloroethyle ne	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

	Waste Description and Treatment/Regulatory Subcategory ¹	REGULATED HAZARDOU	S CONSTITUENT	WASTEWATERS	NONWASTEWATERS
Waste Code		Common Name	CAS ² Number	Concentration mg/l ³ ; or Technology Code ⁴	Concentration in mg/kg ⁵ unless noted as "mg/l TCLP" or Technology Code •
		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
		Trichloromonofluo romethane	75-69-4	0.020	30
·		Xylenes-mixed isomers (sum of o-, m-, and p-xylene concentrations)	1330-20-7	0.32	3 0
	F003 and/or F005 solvent wastes that contain any	Carbon disulfide	75-15-0	3.8	4.8 mg/l TCLP
	combination of one or more of the following three solvents as the only listed F001-5 solvents: carbon disulfide,	Cyclohexanone	108-94-1	0.36	0.75 mg/l TCLP
	cyclohexanone, and/or methanol. (formerly 268.41(c))	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 incin	INCIN
	F005 solvent waste containing 2-Ethoxyethanol as the only listed F001-5 solvent.	2-Ethoxyethanol	110-80-5	BIODG; or INCIN	INCIN
F006	Wastewater treatment sludges from electroplating operations	Cadmium	7440-43-9	0.69	0.19 mg/l TCLP
	except from the following processes: (1) Sulfuric acid anodizing of aluminum; (2) tin plating on carbon steel; (3)	Chromium (Total)	7440-47-3	2.77	0.86 mg/l TCLP
	zinc plating (segregated basis) on carbon steel; (4) aluminum or zinc-aluminum plating on carbon steel; (5)	Cyanides (Total) ⁷	57-12-5	1.2	590
	cleaning/stripping associated with tin, zinc and aluminum plating on carbon steel; and (6) chemical etching and milling of aluminum.	Cyanides (Amenable) ⁷	57-12-5	0.86	30
		Lead	7439-92-1	0.69	0.37 mg/l TCLP

		REGULATED HAZARDOUS CONSTITUENT		WASTEWATERS	NONWASTEWATERS
Waste Code	Waste Description and Treatment/Regulatory Subcategory ¹	Common Name	CAS ² Number	Concentration mg/l ³ ; or Technology Code ⁴	Concentration in mg/kg ⁵ unless noted as "mg/l TCLP" or Technology Code
		Nickel	7440-02-0	3.98	5.0 mg/l TCLP
		Silver	7440-22-4	NA	0.30 mg/l TCLP
F007	F007 Spent cyanide plating bath solutions from electroplating operations.	Cadmium	7440-43-9	NA	0.19 mg/l TCLP
		Chromium (Total)	7440-47-3	2.77	0.86 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	0.37 mg/l TCLP
		Nickel	7440-02-0	3.98	5.0 mg/l TCLP
		Silver	7440-22-4	NA	0.30 mg/l TCLP
F008	Plating bath residues from the bottom of plating baths from	Cadmium	7440-43-9	NA	0.19 mg/l TCLP
	electroplating operations where cyanides are used in the process.	Chromium (Total)	7440-47-3	2.77	0.86 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	0.37 mg/l TCLP
		Nickel	7440-02-0	3.98	5.0 mg/l TCLP
		Silver	7440-22-4	NA	0.30 mg/l TCLP
F009	Spent stripping and cleaning bath solutions from	Cadmium	7440-43-9	NA	0.19 mg/l TCLP
	electroplating operations where cyanides are used in the process.	Chromium (Total)	7440-47-3	2.77	0.86 mg/l TCLP
	•	Cyanides (Total) ⁷	57-12-5	1.2	590

	Waste Description and Treatment/Regulatory Subcategory ¹	REGULATED HAZARDOUS	S CONSTITUENT	WASTEWATERS	NONWASTEWATERS
Waste Code		Common Name	CAS ² Number	Concentration mg/l ³ ; or Technology Code ⁴	Concentration in mg/kg ⁵ unless noted as "mg/l TCLP" or Technology Code
		Cyanides (Amenable) ⁷	57-12-5	0.86	30
		Lead	7439-92-1	0.69	0.37 mg/l TCLP
		Nickel	7440-02-0	3.98	5.0 mg/l TCLP
		Silver	7440-22-4	NA	0.30 mg/l TCLP
F010	Quenching bath residues from oil baths from metal heat	Cyanides (Total) ⁷	57-12-5	1.2	590
	treating operations where cyanides are used in the process.	Cyanides (Amenable) ⁷	57-12-5	0.86	NA
F011	Spent cyanide solutions from salt bath pot cleaning from	Cadmium	7440-43-9	NA	0.19 mg/l TCLP
	metal heat treating operations.	Chromium (Total)	7440-47-3	2.77	0.86 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	0.37 mg/l TCLP
		Nickel	7440-02-0	3,98	5.0 mg/l TCLP
		Silver	7440-22-4	NA	0.30 mg/l TCLP
F012	Quenching wastewater treatment sludges from metal heat	Cadmium	7440-43-9	NA	0.19 mg/l TCLP
	treating operations where cyanides are used in the process.	Chromium (Total)	7440-47-3	2.77	0.86 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	0.37 mg/l TCLP
		Nickel	7440-02-0	3.98	5.0 mg/l TCLP

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		REGULATED HAZARDOU	S CONSTITUENT	WASTEWATERS	NONWASTEWATERS
Waste Code	Waste Description and Treatment/Regulatory Subcategory ¹	Common Name	CAS ² Number	Concentration mg/l ³ ; or Technology Code ⁴	Concentration in mg/kg ⁵ unless noted as "mg/l TCLP" or Technology Code
		Silver	7440-22-4	NA	0.30 mg/l TCLP
F019	Wastewater treatment sludges from the chemical conversion	Chromium (Total)	7440-47-3	2.77	0.86 mg/l TCLP
	coating of aluminum except from zirconium phosphating in aluminum can washing when such phosphating is an exclusive	Cyanides (Total) ⁷	57-12-5	1.2	590
	conversion coating process.	Cyanides (Amenable) ⁷	57-12-5	0.86	30
F020, F021, F022, F023, F026	0, F021, 2, 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 Newschlorophenol	HxCDDs (All Hexachlorodibenzo -p-dioxins)	NA	0.000063	0.001
		HxCDFs (All Hexachlorodibenzo furans)	NA	0.000063	0.001
	(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).	PeCDDs (All Pentachlorodibenz o-p-dioxins)	NA	0.000063	0.001
	Wastes (except wastewater and spent carbon from hydrogen chloride purification) from the production of materials on equipment previously used for the production or manufacturing use (as a reactant, chemical intermediate, or	PeCDFs (All Pentachlorodibenz ofurans)	NA	0.000035	0.001
	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 (E023): (2) tetra-	TCDDs (All Tetrachlorodibenz o-p-dioxins)	NA	0.000063	0.001
	purified 2,4,5-trichlorophenol (FU25); (2) tetra-, penta-, or hexachlorobenzenes under alkaline conditions (i.e., F026).	TCDFs (All Tetrachlorodibenz ofurans)	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

		REGULATED HAZARDOU	S CONSTITUENT	WASTEWATERS
Waste Code	Waste Description and Treatment/Regulatory Subcategory ¹	Common Name	CAS ² Number	Concentration mg/l ³ ; or Technology Code
		Pentachlorophenol	87-86-5	0.089
F027	Discarded unused formulations containing tri-, tetra-, or pentachlorophenol or discarded unused formulations containing compounds derived from these chlorophenols.	HxCDDs (All Hexachlorodibenzo -p-dioxins)	NA	0.000063
	(This listing does not include formulations containing hexachlorophene synthesized from prepurified 2,4,5- trichlorophenol as the sole component.).	HxCDFs (All Hexachlorodibenzo furans)	NA	0.000063
		PeCDDs (All Pentachlorodibenz o-p-dioxins)	NA	0.000063
		PeCDFs (All Pentachlorodibenz ofurans)	NA	0.000035
		TCDDs (All Tetrachlorodibenz o-p-dioxins)	NA	0.000063
		TCDFs (All Tetrachlorodibenz ofurans)	NA	0.000063
		2,4,5- Trichlorophenol	95-95-4	0.18
		2,4,6- Trichlorophenol	88-06-2	0.035
		2,3,4,6- Tetrachlorophenol	58-90-2	0.030
		Pentachlorophenol	87-86-5	0.089
F028	Residues resulting from the incineration or thermal treatment of soil contaminated with EPA Hazardous Wastes Nos. F020, F021, F023, F026, and F027.	HxCDDs (All Hexachlorodibenzo -p-dioxins)	NA	0.000063

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NONWASTEWATERS

Concentration in mg/kg⁵ unless noted as "mg/l TCLP" or Technology Code

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		REGULATED HAZARDOU	S CONSTITUENT	WASTEWATERS	NONWASTEWATERS
Waste Code	Waste Description and Treatment/Regulatory Subcategory ¹	Common Name	CAS ² Number	Concentration mg/l ³ ; or Technology Code ⁴	Concentration mg/kg ⁵ unless noted as "mg/ TCLP" or Technology Cod
		HxCDFs (All Hexachlorodibenzo furans)	NA	0.000063	0.001
		PeCDDs (All Pentachlorodibenz o-p-dioxins)	NA	0.000063	0.001
		PeCDFs (All Pentachlorodibenz ofurans)	NA	0.000035	0.001
	r	TCDDs (All Tetrachlorodibenz o-p-dioxins)	NA	0.000063	0.001
		TCDFs (All Tetrachlorodibenz ofurans)	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
		Pentachlorophenol	87-86-5	0.089	7.4
F024	Process wastes, including but not limited to, distillation	All F024 wastes	NA	INCIN	INCIN
	residues, heavy ends, tars, and reactor clean-out wastes, from the production of certain chlorinated aliphatic hydrocarbons by free radical catalyzed processes. These	2-Chloro-1,3- butadiene	126-99-8	0.057	0.28
	chlorinated aliphatic hydrocarbons are those having carbon chain lengths ranging from one to and including five, with	3-Chloropropylene	107-05-1	0.036	30
varying amounts and positions of chlorine substitution. (This listing does not include wastewaters, wastewater treatment sludges, spent catalysts, and wastes listed in §	1,1- Dichloroethane	75-34-3	0.059	6. 0	

		REGULATED HAZARDOUS	S CONSTITUENT	WASTEWATERS	NONWASTEWATERS
Waste Code	Waste Description and Treatment/Regulatory Subcategory ¹	Common Name	CAS ² Number	Concentration mg/l ³ ; or Technology Code ⁴	Concentration in mg/kg⁵ unless noted as "mg/l TCLP" or Technology Code
		1,2- Dichloroethane	107-06-2	0.21	6.0
		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	0.86 mg/l TCLP
		Nickel	7440-02-0	. 3.98	5.0 mg/l TCLP
F025	Condensed light ends from the production of certain chlorinated aliphatic hydrocarbons, by free radical	Carbon tetrachloride	56-23-5	0.057	6.0
	catalyzed processes. These chlorinated allphatic hydrocarbons are those having carbon chain lengths ranging	Chloroform	67-66-3	0.046	6.0
	from one to and including five, with varying amounts and positions of chlorine substitution. F025 - Light Ends Subcategory	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
		Vinvl chloride	75-01-4	0.27	6.0

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		REGULATED HAZARDOUS CONSTITUENT		WASTEWATERS	NONWASTEWATERS
Waste Code	Waste Description and Treatment/Regulatory Subcategory ¹	Common Name	CAS ² Number	Concentration ⊡mg/l ³ ; or Technology Code ⁴	Concentration in mg/kg ⁵ unless noted as "mg/l TCLP" or Technology Code
	Spent filters and filter aids, and spent desiccant wastes from the production of certain chlorinated aliphatic	Carbon tetrachloride	56-23-5	0.057	6.0
	hydrocarbons, by free radical catalyzed processes. These chlorinated aliphatic hydrocarbons are those having carbon	Chloroform	67-66-3	0.046	6.0
	chain lengths ranging from one to and including five, with varying amounts and positions of chlorine substitution.	Hexachlorobenzene	118-74-1	0.055	10
	F025 - Spent Filters/Aids and Desiccants Subcategory	Hexachlorobutadie ne	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
F037	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	Anthracene	120-12-7	0.059	3.4
	treatment of process wastewaters and oily cooling	Benzene	71-43-2	0.14	10
	include, but are not limited to, those generated in:	Benz(a)anthracene	56-55-3	0.059	3.4
oil/water/solids separators; tanks and impoundments; ditches and other conveyances; sumps; and stormwater units receiving dry weather flow. Sludge generated in stormwate units that do not receive dry weather flow, sludges generated from non-contact once-through cooling waters	ditches and other conveyances; sumps; and stormwater units	Benzo(a)pyrene	50-32-8	0.061	3.4
	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	bis(2-Ethylhexyl) phthalate	117-81-7	0.28	28
	waters, sludges generated in aggressive biological	Chrysene .	218-01-9	0.059	3.4
	sludges generated in one or more additional units after wastewaters have been treated in aggressive biological	Di-n-butyl phthalate	84-74-2	0.057	28
	treatment units) and KO51 wastes are not included in this listing.	Ethylbenzene	100-41-4	0.057	10

		REGULATED HAZARDOU	S CONSTITUENT	WASTEWATERS	NONWASTEWATERS
Waste Code	te Code Waste Description and Treatment/Regulatory Subcategory ¹	Common Name	CAS ² Number	Concentration mg/l ³ ; or Technology Code⁴	Concentration in mg/kg ⁵ unless noted as "mg/l TCLP" or Technology Code
		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	.032	30
		Chromium (Total)	7440-47-3	2.77	0.86 mg/l TCLP
	· · ·	Cyanides (Total) ⁷	57-12-5	1.2	590
		Lead	7439-92-1	0.69	NA
		Nickel	7440-02-0	NA	5.0 mg/l TCLP

		REGULATED HAZARDOU	S CONSTITUENT	WASTEWATERS	NONWASTEWATERS
Waste Code	Waste Description and Treatment/Regulatory Subcategory ¹	Common Name	CAS ² Number	Concentration mg/l ³ ; or Technology Code ⁴	Concentration in mg/kg ⁵ unless noted as "mg/l TCLP" or Technology Code -
F038	Petroleum refinery secondary (emulsified) oil/water/solids	Benzene	71-43-2	0.14	10
	separation sludge and/or float generated from the physical and/or chemical separation of oil/water/solids in process	Benzo(a)pyrene	50-32-8	0.061	3.4
	wastewaters and oily cooling wastewaters from petroleum refineries. Such wastes include, but are not limited to, all sludges and floats generated in: induced air	bis(2-Ethylhexyl) phthalate	117-81-7	0.28	28
	floatation (IAF) units, tanks and impoundments, and all sludges generated in DAF units. Sludges generated in	Chrysene	218-01-9	0.059	3.4
	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	Di-n-butyl phthalate	84-74-2	0.057	28
	cooling waters, sludges and floats generated in aggressive biological treatment units as defined in § $261_{-}31(b)(2)$	Ethylbenzene	100-41-4	0.057	10
	(including sludges and floats generated in one or more	Fluorene	86-73-7	0.059	NA
	aggressive biological units) and F037, K048, and K051 are	Naphthalene	91-20-3	0.059	5.6
	not included in this tisting.	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	0.86 mg/l TCLP
		Cyanides (Total) ⁷	57-12-5	1.2	590
		Lead	7439-92-1	0.69	NA
		Nickel	7440-02-0	NA	5.0 mg/l TCLP

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		REGULATED HAZARDOUS CONSTITUENT		WASTEWATERS	NONWASTEWATERS
Waste Code	Waste Description and Treatment/Regulatory Subcategory ¹	Common Name	CAS ² Number	Concentration mg/l ³ ; or Technology Code ⁴	Concentration in mg/kg ⁵ unless noted as "mg/l TCLP" or Technology Code
F039	Leachate (liquids that have percolated through land	Acenaphthylene	208-96-8	0.059	3.4
	disposed wastes) resulting from the disposal of more than one restricted waste classified as hazardous under subpart	Acenaphthene	83-32-9	0.059	3.4
	D of this part. (Leachate resulting from the disposal of one or more of the following EPA Hazardous Wastes and no	Acetone	67-64-1	0.28	160
	other Hazardous Wastes retains its EPA Hazardous Waste Number(s): F020, F021, F022, F026, F027, and/or F028.).	Acetonitrile	75-05-8	5.6	NA
		Acetophenone	9 6-86-2	0.010	9.7
		2- Acetylaminofluore ne	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
		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

	ste Code Waste Description and Treatment/Regulatory Subcategory ¹		CONSTITUENT	WASTEWATERS	NONWASTEWATERS
Waste Code			CAS ² Number	Concentration mg/l ³ ; or Technology Code ⁴	Concentration in mg/kg ⁵ unless noted as "mg/l TCLP" or Technology Code
		Benzo(b)fluoranth ene (difficult to distinguish from benzo(k)fluoranth ene)	205-99-2	0.11	6.8
		Benzo(k)fluoranth ene (difficult to distinguish from benzo(b)fluoranth ene)	207-08-9	0.11	6.8
		Benzo(g,h,i)peryl ene	191-24-2	0.0055	1.8
		Benzo(a)pyrene	50-32-8	0.061	3.4
		Bromodichlorometh ane	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

		REGULATED HAZARDOUS CONSTITUENT		WASTEWATERS	NONWASTEWATERS
Waste Code	Waste Description and Treatment/Regulatory Subcategory ¹	Common Name	CAS ² Number	Concentration mg/l ³ ; or Technology Code ⁴	Concentration in mg/kg ⁵ unless noted as "mg/l TCLP" or Technology Code -
		Chiordane (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
		Chlorodibromometh ane	124-48-1	0.057	15
		Chloroethane	75-00-3	0.27	6.0
		bis(2- Chloroethoxy)meth ane	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)e ther	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

	Waste Code Waste Description and Treatment/Regulatory Subcategory ¹	REGULATED HAZARDOUS	S CONSTITUENT	WASTEWATERS	NONWASTEWATERS
Waste Code		Common Name	CAS ² Number	Concentration mg/l ³ ; or Technology Code⁴	Concentration in mg/kg ⁵ unless noted as "mg/l TCLP" or Technology Code
		3-Chloropropylene	107-05-1	0.036	30
		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
		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- Dichlorophenoxyac etic 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
	1	o,p'-DDT	789-02-6	0.0039	0.087

		TREATMENT STANDARDS
ENT	Waste Code	Waste Description and Treatment/Regulatory Subcategory ¹
DCUM		
VE D(
RCHI		
PA A		
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REGULAT	REGULATED HAZARDOUS CONSTITUENT		WASTEWATERS	NONWASTEWATERS	
Com	ion Name	CAS ² Number	Concentration mg/l ³ ; or Technology Code ⁴	Concentration in mg/kg ⁵ unless noted as "mg/l TCLP" or Technology Code	
p,p'-00	T	50-29-3	0.0039	0.087	
Dibenz(cene	(a,h)anthra	53-70-3	0.055	8.2	
Dibenz	a,e)pyrene	192-65-4	0.061	NA	
m-Dichl	orobenzene	541-73-1	0.036	6.0	
o-Dichl	orobenzene	95-50-1	0.088	6.0	
p-Dichl	orobenzene	106-46-7	0.090	6.0	
Dichlor ethane	rodifluorom	75-71-8	0.23	7.2	
1,1- Dichlor	oethane	75-34-3	0.059	6.0	
1,2- Dichlor	oethane	107-06-2	0.21	6.0	
1,1- Dichlor	oethylene	75-35-4	0.025	6.0	
trans-1 Dichlor	.2- oethylene	156-60-5	0.054	30	
2,4- Dichlor	ophenol	120-83-2	0.044	14	
2,6- Dichlor	rophenol	87-65-0	0.044	14	
1,2- Dichloi	ropropane	78-87-5	0.85	18	
cis-1,3 Dichlo	3- ropropylene	10061-01-5	0.036	18	

		REGULATED HAZARDOUS CONSTITUENT		WASTEWATERS	NONWASTEWATERS
Waste Code	Waste Description and Treatment/Regulatory Subcategory ¹	Common Name	CAS ² Number	Concentration mg/l ³ ; or Technology Code ⁴	Concentration in mg/kg ⁵ unless noted as "mg/l TCLP" or Technology Code
		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
		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
	· ·	4,6-Dinitro-o- cresol	534-52-1	Q.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	NA	170

		TREATMENT STANDARDS
ENT	Waste Code	Waste Description and Treatment/Regulatory Subcategory ¹
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TREATMENT STANDARDS FOR HAZARDOUS WASTES

REGULATED HAZARDOUS CONSTITUENT		WASTEWATERS	NONWASTEWATERS	
Common Name	CAS ² Number	Concentration mg/l ³ ; or Technology Code ⁴	Concentration in mg/kg ⁵ unless noted as "mg/l TCLP" or Technology Code	
Diphenylamine (difficult to distinguish from diphenylnitrosami ne)	122-39-4	0.92	13	
Diphenylnitrosami ne (difficult to distinguish from diphenylamine)	86-30-6	0.92	NĂ	
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	1-31-07-8	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	

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		REGULATED HAZARDOUS CONSTITUENT		WASTEWATERS	NONWASTEWATERS
Waste Code Waste Description	Waste Description and Treatment/Regulatory Subcategory ¹	Common Name	CAS ² Number	Concentration mg/l ³ ; or Technology Code ⁴	Concentration in mg/kg ⁵ unless noted as "mg/l TCLP" or Technology Code ·
		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
		Hexachlorobenzene	118-74-1	0.055	10
		Hexachlorobutadie ne	87-68-3	0.055	5.6
		Hexachlorocyclope ntadiene	77-47-4	0.057	2.4
		HxCDDs (All Hexachlorodibenzo -p-dioxins)	NA	0.000063	0.001
		HxCDFs (All Hexachlorodibenzo furans)	NA	0.000063	0.001
		Hexachloroethane	67-72-1	0.055	30
		Hexachloropropyle ne	1888-71-7	0.035	30
		Indeno (1,2,3- c,d) pyrene	193-39-5	0.0055	3.4
		Iodomethane	74-88-4	0.19	65
		Isobutyl alcohol	78-83-1	5.6	170

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	Waste Description and Treatment/Regulatory Subcategory ¹	REGULATED HAZARDOUS CONSTITUENT		WASTEWATERS	NONWASTEWATERS
Waste Code		Common Name	CAS ² Number	Concentration mg/l ³ ; or Technology Code ⁴	Concentration in mg/kg ⁵ unless noted as "mg/l TCLP" or Technology Code
		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- Methylcholanthren e	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

			REGULATED HAZARDOUS CONSTITUENT		NONWASTEWATERS
Waste Code	aste Code Waste Description and Treatment/Regulatory Subcategory ¹	Common Name	CAS ² Number	Concentration _mg/l ³ ; or Technology Code ⁴	Concentration in mg/kg ⁵ unless noted as "mg/l TCLP" or Technology Code
		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- Nitrosodiethylami ne	55-18-5	0.40	28
		N- Nitrosodimethylam ine	62-75-9	0.40	NA
		N-Nitroso-di-n- butylamine	924-16-3	0.40	17
		N- Nitrosomethylethy lamine	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- Nitrosopyrrolidin e	930-55-2	0.013	35
		Parathion	56-38-2	0.014	4.6

		REGULATED HAZARDOUS	S CONSTITUENT	WASTEWATERS	NONWASTEWATERS
Waste Code	Waste Description and Treatment/Regulatory Subcategory ¹	Common Name	CAS ² Number	Concentration mg/l ³ ; or Technology Code⁴	Concentration in mg/kg⁵ unless noted as "mg/l TCLP" or Technology Code
		Total PCBs (sum of all PCB isomers, or all Aroclors)	1336-36-3	0.10	10
		Pentachlorobenzen e	608-93-5	0.055	10
		PeCDDs (All Pentachlorodibenz o-p-dioxins)	NA	0.000063	0.001
		PeCDFs (All Pentachlorodibenz ofurans)	NA	0.000035	0.001
		Pentachloronitrob enzene	82-68-8	0.055	4.8
		Pentachlorophenol	87-86-5	0.089	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
		Phorate	298-02-2	0.021	4.6
		Phthalic anhydride	85-44-9	0.055	NA
		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

			S CONSTITUENT	WASTEWATERS	NONWASTEWATERS
Waste Code	Waste Code Waste Description and Treatment/Regulatory Subcategory ¹	Common Name	CAS ² Number	Concentration mg/l ³ ; or Technology Code ⁴	Concentration in mg/kg ⁵ unless noted as "mg/l TCLP" or Technology Code
		2,4,5-T	93-76-5	0.72	7.9
		1,2,4,5- Tetrachlorobenzen e	95-94-3	0.055	14
		TCDDs (All Tetrachlorodibenz o-p-dioxins)	NA	0.000063	0.001
		TCDFs (All Tetrachlorodibenz ofurans)	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
		Tetrachloroethyle ne	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

		REGULATED HAZARDOU	S CONSTITUENT	WASTEWATERS
Waste Code	Waste Description and Treatment/Regulatory Subcategory ¹	Common Name	CAS ² Number	Concentration _mg/l³; or Technology Code ⁴
		Trichloroethylene	79-01-6	0.054
		Trichloromonofluo romethane	75-69-4	0.020
		2,4,5- Trichlorophenol	95-95-4	0.18
		2,4,6- Trichlorophenol	88-06-2	0.035
		1,2,3- Trichloropropane	96-18-4	0.85
		1,1,2-Trichloro- 1,2,2- trifluoroethane	76-13-1	0.057
		tris(2,3- Dibromopropyl) phosphate	126-72-7	0.11
		Vinyl chloride	75-01-4	0.27
		Xylenes-mixed isomers (sum of o-, m-, and p-xylene concentrations)	1330-20-7	0.32
		Antimony	7440-36-0	1.9
		Arsenic	7440-38-2	1.4
		Barium	7440-39-3	1.2
		Beryllium	7440-41-7	0.82
		Cadmium	7440-43-9	0.69
		Chromium (Total)	7440-47-3	2.77

NONWASTEWATERS

Concentration in mg/kg⁵ unless noted as "mg/l TCLP" or

Technology Code

6.0

30

7.4

7.4

30

30

NA

6.0

30

2.1 mg/l TCLP

5.0 mg/l TCLP

7.6 mg/l TCLP NA

0.19 mg/l TCLP

0.86 mg/l TCLP

	Waste Description and Treatment/Regulatory Subcategory ¹	REGULATED HAZARDOU	S CONSTITUENT	WASTEWATERS	NONWASTEWATERS
Waste Code		Common Name	CAS ² Number	Concentration mg/l ³ ; or Technology Code ⁴	Concentration in mg/kg ⁵ unless noted as "mg/l TCLP" or Technology Code -
		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	0.37 mg/l TCLP	
	Mercury	7439-97-6	0,15	0.025 mg/l TCLP	
		Nickel	7440-02-0	3,98	5.0 mg/l TCLP
		Selenium	7782-49-2	0.82	0.16 mg/l TCLP
		Silver	7440-22-4	0.43	0.30 mg/l TCLP
	· · · · ·	Sulfide	8496-25-8	14	NA
		Thallium	7440-28-0	1.4	<u>NA .</u>
		Vanadium	7440-62-2	4.3	NA
коо1	Bottom sediment sludge from the treatment of wastewaters	Naphthalene	91-20 -3	0.059	5.6
	pentachlorophenol.	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	0.37 mg/l TCLP

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	Waste Description and Treatment/Regulatory Subcategory ¹	REGULATED HAZARDOUS	S CONSTITUENT	WASTEWATERS	NONWASTEWATERS
Waste Code		Common Name	CAS ² Number	Concentration mg/l ³ ; or Technology Code ⁴	Concentration in mg/kg ⁵ unless noted as "mg/l TCLP" or Technology Code
K002	Wastewater treatment sludge from the production of chrome	Chromium (Total)	7440-47-3	2.77	0.86 mg/l TCLP
	yellow and orange pigments.	Lead	7439-92-1	0.69	0.37 mg/l TCLP
к003	Wastewater treatment sludge from the production of	Chromium (Total)	7440-47-3	2.77	0.86 mg/l TCLP
	molybdate orange pigments.	Lead	7439-92-1	0.69	0.37 mg/l TCLP
коо4	Wastewater treatment sludge from the production of zinc	Chromium (Total)	7440-47-3	2.77	0.86 mg/l TCLP
	yellow pigments.	Lead	7439-92-1	0.69	0.37 mg/l TCLP
коо5	Wastewater treatment sludge from the production of chrome green pigments.	Chromium (Total)	7440-47-3	2.77	0.86 mg/l TCLP
		Lead	7439-92-1	0.69	0.37 mg/l TCLP
		Cyanides (Total) ⁷	57-12-5	1.2	590
к006	Wastewater treatment sludge from the production of chrome	Chromium (Total)	7440-47-3	2.77	0.86 mg/l TCLP
,	oxide green pigments (anhydrous).	Lead	7439-92-1	0.69	0.37 mg/l TCLP
	Wastewater treatment sludge from the production of chrome	Chromium (Total)	7440-47-3	2.77	0.86 mg/l TCLP
	oxide green pigments (hydrated).	Lead	7439-92-1	0.69	NA
K007	Wastewater treatment sludge from the production of iron	Chromium (Total)	7440-47-3	2.77	0.86 mg/l TCLP
	blue pigments.	Lead	7439-92-1	0.69	0.37 mg/l TCLP
		Cyanides (Total) ⁷	57-12-5	1.2	590
к008	Oven residue from the production of chrome oxide green	Chromium (Total)	7440-47-3	2.77	0.86 mg/l TCLP
	pigments.	Lead	7439-92-1	0.69	0.37 mg/l TCLP
K009	Distillation bottoms from the production of acetaldehyde from ethylene.	Chloroform	67-66-3	0.046	6.0
к010	Distillation side cuts from the production of acetaldehyde from ethylene.	Chloroform	67-66-3	0.046	6.0

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		REGULATED HAZARDOUS	S CONSTITUENT	WASTEWATERS	NONWASTEWATERS
Waste Code	Waste Description and Treatment/Regulatory Subcategory ¹	Common Name	CAS ² Number	Concentration mg/l ³ ; or Technology Code ⁴	Concentration in mg/kg ⁵ unless noted as "mg/l TCLP" or Technology Code
K011	Bottom stream from the wastewater stripper in the	Acetonitrile	75-05-8	5.6	1.8
	production of acrylonitrile.	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
к013	Bottom stream from the acetonitrile column in the production of acrylonitrile.	Acetonitrile	75-05-8	5.6	1.8
		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
к014	Bottoms from the acetonitrile purification column in the	Acetonitrile	75-05-8	5.6	1.8
	production of acrylonitrile.	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
К015	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)fluoranth ene (difficult to distinguish from benzo(k)fluoranth ene)	205-99-2	0.11	6.8

		REGULATED HAZARDOUS	S CONSTITUENT	WASTEWATERS	NONWASTEWATERS
Waste Code	Waste Description and Treatment/Regulatory Subcategory ¹	Common Name	CAS ² Number	Concentration mg/l ³ ; or Technology Code ⁴	Concentration in mg/kg ⁵ unless noted as "mg/l TCLP" or Technology Code
		Benzo(k)fluoranth ene (difficult to distinguish from benzo(b)fluoranth ene)	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	0.86 mg/l TCLP
		Nickel	7440-02-0	3.98	5.0 mg/l TCLP
K016	Heavy ends or distillation residues from the production of	Hexachlorobenzene	118-74-1	0.055	10
	carbon tetrachloride.	Hexachlorobutadie ne	87-68-3	0.055	5.6
		Hexachlorocyclope ntadiene	77-47-4	0.057	2.4 .
		Hexachloroethane	67-72-1	0.055	30
		Tetrachloroethyle ne	127-18-4	0.056	6.0
К017	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
к018	Heavy ends from the fractionation column in ethyl chloride	Chloroethane	75-00-3	0.27	6.0
	production.	Chloromethane	74-87-3	0.19	NA

	Waste Description and Treatment/Regulatory Subcategory ¹	REGULATED HAZARDOUS CONSTITUENT		WASTEWATERS	NONWASTEWATERS
Code		Common Name	CAS ² Number	Concentration mg/l ³ ; or Technology Code ⁴	Concentration in mg/kg ⁵ unless noted as "mg/l TCLP" or Technology Code
	,	1,1- Dichloroethane	75-34-3	0.059	6.0
		1,2- Dichloroethane	107-06-2	0.21	6.0
		Hexachlorobenzene	118-74-1	0.055	10
		Hexachlorobutadie ne	87-68-3	0.055	5.6
		Hexachloroethane	67-72-1	0.055	30
		Pentachloroethane	76-01-7	NA	6.0
		1,1,1- Trichloroethane	71-55-6	0.054	6.0
)19	Heavy ends from the distillation of ethylene dichloride in ethylene dichloride production.	bis(2- Chloroethyl)ether	111-44-4	0.033	6.0
		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- Tetrachlorobenzen e	95-94-3	0.055	NA

		REGULATED HAZARDOUS CONSTITUENT		WASTEWATERS	NONWASTEWATERS
laste Code	Waste Description and Treatment/Regulatory Subcategory ¹	Common Name	CAS ² Number	Concentration mg/l ³ ; or Technology Code ⁴	Concentration in mg/kg ⁵ unless noted as "mg/l TCLP" or Technology Code
		Tetrachloroethyle ne	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 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
		Tetrachloroethyle ne	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	2.1 mg/l TCLP
K022	Distillation bottom tars from the production of	Toluene	108-88-3	0.080	10
	phenol/acetone from cumene.	Acetophenone	96-86-2	0.010	9.7
		Diphenylamine (difficult to distinguish from diphenylnitrosami ne)	122-39-4	0.92	13
		Diphenylnitrosami ne (difficult to distinguish from diphenylamine)	86-30-6	0.92	13
		Phenol	108-95-2	0.039	6.2

	•	REGULATED HAZARDOUS CONSTITUENT		WASTEWATERS	NONWASTEWATERS
Waste Code	Waste Description and Treatment/Regulatory Subcategory ¹	Common Name	CAS ² Number	Concentration mg/l ³ ; or Technology Code ⁴	Concentration in mg/kg ⁵ unless noted as "mg/l TCLP" or Technology Code
		Chromium (Total)	7440-47-3	2.77	0.86 mg/l TCLP
		Nickel	7440-02-0	3.98	5.0 mg/l TCLP
к023	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
		Phthalic anhydride (measured as Phthalic acid or Terephthalic acid)	85-44-9	0.055	28
к024	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 INCIN	INCIN
к026	Stripping still tails from the production of methyl ethyl pyridines.	NA	NA	INCIN	INCIN
к027	Centrifuge and distillation residues from toluene diisocyanate production.	NA	NA	CARBN; or INCIN	CMBST

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		REGULATED HAZARDOU	S CONSTITUENT	WASTEWATERS	NONWASTEWATERS
Waste Code	Waste Description and Treatment/Regulatory Subcategory ¹	Common Name	CAS ² Number	Concentration mg/l ³ ; or Technology Code⁴	Concentration in mg/kg ⁵ unless noted as "mg/l TCLP" or Technology Code
к028	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
		Hexachlorobutadie ne	87-68-3	0.055	5.6
		Hexachloroethane	67-72-1	0.055	30
		Pentachloroethane	76-01-7	NA	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
		Tetrachloroethyle ne	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	0.86 mg/l TCLP
		Lead	7439-92-1	0.69	0.37 mg/l TCLP
		Nickel	7440-02-0	3.98	5.0 mg/l TCLP
к029	Waste from the product steam stripper in the production of	Chloroform	67-66-3	0.046	6.0
	1,1,1-trichloroethane.	1,2- Dichloroethane	107-06-2	0.21	6.0

		REGULATED HAZARDOUS	CONSTITUENT	WASTEWATERS	NONWASTEWATERS
Waste Code	Waste Description and Treatment/Regulatory Subcategory ¹	Common Name	CAS ² Number	Concentration mg/l ³ ; or Technology Code ⁴	Concentration in mg/kg ⁵ unless noted as "mg/l TCLP" or Technology Code
		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	o-Dichlorobenzene	95-50-1	0.088	NA
	trichloroethylene and perchloroethylene.	p-Dichlorobenzene	106-46-7	0.090	NA
		Hexachlorobutadie ne	87-68-3	0.055	5.6
		Hexachloroethane	67-72-1	0.055	30
		Hexachloropropyle ne	1888-71-7	NA	30
		Pentachlorobenzen e	608-93-5	NA	10
		Pentachloroethane	76-01-7	NA	6.0
		1,2,4,5- Tetrachlorobenzen e	95-94-3	0.055	14
		Tetrachloroethyle ne	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.	Hexachlorocyclope ntadiene	77-47-4	0.057	2.4

		REGULATED HAZARDOUS CONSTITUENT		WASTEWATERS	NONWASTEWATERS
Waste Code	Waste Description and Treatment/Regulatory Subcategory ¹	Common Name	CAS ² Number	Concentration mg/l ³ ; or Technology Code ⁴	Concentration in mg/kg ⁵ unless noted as "mg/l TCLP" or Technology Code
		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
к033	Wastewater and scrub water from the chlorination of cyclopentadiene in the production of chlordane.	Hexachlorocyclope ntadiene	77-47-4	0.057	2.4
K034	Filter solids from the filtration of hexachlorocyclopentadiene in the production of chlordane.	Hexachlorocyclope ntadiene	77-47-4	0.057	2.4
K035	Wastewater treatment sludges generated in the production of creosote.	Acenaphthene	83-32-9	NA	3.4
		Anthracene	120-12-7	NA	3.4
		Benz(a)anthracene	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
		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)anthra cene	53-70-3	NA	8.2
		Fluoranthene	206-44-0	0.068	3.4

	Waste Description and Treatment/Regulatory Subcategory ¹	REGULATED HAZARDOUS CONSTITUENT		WASTEWATERS	NONWASTEWATERS
Waste Code		Common Name	CAS ² Number	Concentration mg/l ³ ; or Technology Code ⁴	Concentration in mg/kg ⁶ unless noted as "mg/l TCLP" or Technology Code
		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
		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 diethylphosphorodithioc acid in the production of phorate.	NA	NA	CARBN; or INCIN	CMBST
к040	Wastewater treatment sludge from the production of phorate.	Phorate	298-02-2	0.021	4.6
к041	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
		Pentachlorobenzen e	608-93-5	0.055	10
		1,2,4,5- Tetrachlorobenzen e	95-94-3	0.055	14
	REGULATED HAZARDOU	S CONSTITUENT	WASTEWATERS	NONWASTEWATERS	
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Waste Description and Treatment/Regulatory Subcategory ¹	Common Name	CAS ² Number	Concentration mg/l ³ ; or Technology Code ⁴	Concentration in mg/kg ⁵ unless noted as "mg/l TCLP" or Technology Code	
	1,2,4- Trichlorobenzene	120-82-1	0.055	19	
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- Tetrachlorophenol	58-90-2	0.030	7.4	
	Pentachlorophenol	87-86-5	0.089	7.4	
	Tetrachloroethyle ne	127-18-4	0.056	6.0	
	HxCDDs (All Hexachlorodibenzo -p-dioxins)	NA	0.000063	0.001	
	HxCDFs (All Hexachlorodibenzo furans)	NA	0.000063	0.001	
	PeCDDs (All Pentachlorodibenz o-p-dioxins)	NA	0.000063	0.001	
	PeCDFs (All Pentachlorodibenz ofurans)	NA	0.000035	0.001	

		REGULATED HAZARDOUS CONSTITUENT		WASTEWATERS	NONWASTEWATERS
Waste Code	Waste Description and Treatment/Regulatory Subcategory ¹	Common Name	CAS ² Number	Concentration mg/l ³ ; or Technology Code ⁴	Concentration in mg/kg ⁵ unless noted as "mg/l TCLP" or Technology Code
		TCDDs (All Tetrachlorodibenz o-p+dioxins)	NA	0.000063	0.001
		TCDFs (All Tetrachlorodibenz ofurans)	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.	NĄ	NA	DEACT	DEACT
K046	Wastewater treatment sludges from the manufacturing, formulation and loading of lead-based initiating compounds.	Lead	7439-92-1	0.69	0.37 mg/l TCLP
к047	Pink/red water from TNT operations.	NA	NA	DEACT	DEACT
K048	Dissolved air flotation (DAF) float from the petroleum	Benzene .	71-43-2	0.14	10
	refining industry.	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
		Naphthalene	91-20-3	0.059	5.6
		Phenanthrene	85-01-8	0.059	5.6
		Phenol	108-95-2	0.039	6.2

		REGULATED HAZARDOU	S CONSTITUENT	WASTEWATERS	NONWASTEWATERS
Waste Code	Waste Description and Treatment/Regulatory Subcategory ¹	Common Name	CAS ² Number	Concentration mg/l ³ ; or Technology Code ⁴	Concentration in mg/kg ⁵ unless noted as "mg/l TCLP" or Technology Code
		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	0.86 mg/l TCLP
		Cyanides (Total) ⁷	57-12-5	1.2	590
		Lead	7439-92-1	0.69	NA
		Nickel	7440-02-0	NA	5.0 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	<u>NA</u>
		Chrysene	2218-01-9	0.059	3.4
		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

		REGULATED HAZARDOUS	S CONSTITUENT	WASTEWATERS	NONWASTEWATERS
Waste Code	Waste Description and Treatment/Regulatory Subcategory ¹	Common Name	CAS ² Number	Concentration mg/l ³ ; or Technology Code ⁴	Concentration in mg/kg ⁵ unless noted as "mg/l TCLP" or Technology Code
		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	0.86 mg/l TCLP
		Lead	7439-92-1	0.69	NA
		Nickel	7440-02-0	NA	5.0 mg/l TCLP
K050	Heat exchanger bundle cleaning sludge from the petroleum	Benzo(a)pyrene	50-32-8	0.061	3.4
	retining 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	0.86 mg/l TCLP
		Lead	7439-92-1	0.69	NA
		Nickel	7440-02-0	NA	5.0 mg/l TCLP
к051	API separator sludge from the petroleum refining industry.	Acenaphthene	83-32-9	0.059	NA
		Anthracene	120-12-7	0.059	3.4
		Benz(a)anthracene	56-55-3	0.059	3.4
		Benzene	71-43-2	0.14	10
		Benzo(a)pyrene	50-32-8	0.061	3.4

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		REGULATED HAZARDOUS	CONSTITUENT	WASTEWATERS
Waste Code	Waste Description and Treatment/Regulatory Subcategory ¹	Common Name	CAS ² Number	Concentration mg/l ³ ; or Technology Code ⁴
		bis(2-Ethylhexyl) phthalate	117-81-7	0.28
		Chrysene	2218-01-9	0.059
		Di-n-butyl phthalate	105-67-9	0.057
		Ethylbenzene	100-41-4	0.057
		Fluorene	86-73-7	0.059
		Naphthalene	91-20- 3	0.059
		Phenanthrene	85-01-8	0.059
	· · ·	Phenol	108-95-2	0.039
		Pyrene	129-00-0	0.067
	· ·	Toluene	108-88-3	0.08
		Xylenes-mixed isomers (sum of o-, m-, and p-xylene concentrations)	1330-20-7	0.32
		Cyanides (Total) ⁷	57-12-5	1.2
		Chromium (Total)	7440-47-3	2.77
		Lead	7439-92-1	0.69
		Nickel	7440-02-0	NA
к052	Tank bottoms (leaded) from the petroleum refining industry.	Benzene	71-43-2	0.14
		Benzo(a)pyrene	50-32-8	0.061
		o-Cresol	95-48-7	0 11

NONWASTEWATERS

Concentration in mg/kg⁵ unless noted as "mg/l TCLP" or

Technology Code -

28

3.4

28

10

NA

5.6

5.6

6.2

8.2

10

30

590

0.86 mg/l TCLP

NA 5.0 mg/l TCLP

10

3.4

5.6

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		REGULATED HAZARDOUS	CONSTITUENT	WASTEWATERS	NONWASTEWATERS
Waste Code	Waste Description and Treatment/Regulatory Subcategory ¹	Common Name	CAS ² Number	Concentration mg/l ³ ; or Technology Code ⁴	Concentration in mg/kg ⁵ unless noted as "mg/l TCLP" or Technology Code
		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	0.86 mg/l TCLP
		Cyanides (Total) ⁷	57-12-5	1.2	590
		Lead	7439-92-1	0.69	NA
		Nickel	7440-02-0	NA	5.0 mg/l TCLP
к060	Ammonia still lime sludge from coking operations.	Benzene	71-43-2	0.14	10
		Benzo(a)pyrene	50-32-8	0.061	3.4

		REGULATED HAZARDOU	S CONSTITUENT	WASTEWATERS	NONWASTEWATERS
Waste Code	Waste Description and Treatment/Regulatory Subcategory ¹	Common Name	CAS ² Number	Concentration mg/l ³ ; or Technology Code ⁴	Concentration in mg/kg ⁵ unless noted as "mg/l TCLP" or Technology Code
		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 of	Antimony	7440-36-0	NA	2.1 mg/l TCLP
	steel in electric furnaces.	Arsenic	7440-38-2	NA	5.0 mg/l TCLP
, ,		Barium	7440-39-3	NA	7.6 mg/l TCLP
		Beryllium	7440-41-7	NA	0.014 mg/l TCLP
		Cadmium	7440-43-9	0.69	0.19 mg/l TCLP
		Chromium (Total)	7440-47-3	2.77	0.86 mg/l TCLP
		Lead	7439-92-1	0.69	0.37 mg/l TCLP
		Mercury	7439-97-6	NA	0.025 mg/l TCLP
		Nickel	7440-02-0	3.98	5.0 mg/l TCLP
		Selenium	7782-49-2	NA	0.16 mg/l TCLP
		Silver	7440-22-4	NA	0.30 mg/l TCLP
		Thallium	NA	NA	0.078 mg/l TCLP
		Zinc	7440-66-6	NA	5.3 mg/l TCLP
к062	Spent pickle liquor generated by steel finishing operations	Chromium (Total)	7440-47-3	2.77	0.86 mg/l TCLP
	of facilities within the iron and steel industry (SIC Codes 331 and 332).	Lead	7439-92-1	0.69	0.37 mg/l TCLP
		Nickel	7440-02-0	3.98	NA
к069	Emission control dust/sludge from secondary lead smelting.	Cadmium	7440-43-9	0.69	0.19 mg/l TCLP
	- Calcium Sulfate (Low Lead) Subcategory	Lead	7439-92-1	0.69	0.37 mg/l TCLP

		REGULATED HAZARDOUS	S CONSTITUENT	WASTEWATERS	NONWASTEWATERS
Waste Code	Waste Description and Treatment/Regulatory Subcategory ¹	Common Name	CAS ² Number	Concentration mg/l ³ ; or Technology Code ⁴	Concentration in mg/kg ⁵ unless noted as "mg/l TCLP" or Technology Code
	Emission control dust/sludge from secondary lead smelting. - Non-Calcium Sulfate (High Lead) Subcategory	NA	NA	NA	RLEAD
K071	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
K073	Chlorinated hydrocarbon waste from the purification step of the diaphragm cell process using graphite anodes in	Carbon tetrachloride	56-23-5	0.057	6.0
	chlorine production.	Chloroform	67-66-3	0.046	6.0
		Hexachloroethane	. 67-72-1	0.055	30
		Tetrachloroethyle ne	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 diphenylnitrosami ne)	122-39-4	0.92	13

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		REGULATED HAZARDOU	S CONSTITUENT	WASTEWATERS	NONWASTEWATERS
Waste Code	Waste Description and Treatment/Regulatory Subcategory ¹	Common Name	CAS ² Number	Concentration mg/l ³ ; or Technology Code ⁴	Concentration in mg/kg ⁵ unless noted as "mg/l TCLP" or Technology Code
		Diphenylnitrosami ne (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	5.0 mg/l TCLP
к084	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 TCLP
K085	Distillation or fractionation column bottoms from the	Benzene	71-43-2	0.14	10
	production of chlorobenzenes.	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
		p-Dichlorobenzene	106-46-7	0.090	6.0
		Hexachlorobenzene	118-74-1	0.055	10
		Total PCBs (sum of all PCB isomers, or all Aroclors)	1336-36-3	0.10	10
		Pentachlorobenzen e	608-93-5	0.055	10
		1,2,4,5- Tetrachlorobenzen e	95-94-3	0.055	14
		1,2,4- Trichlorobenzene	120-82-1	0.055	19

		REGULATED HAZARDOUS CONSTITUENT		WASTEWATERS	NONWASTEWATERS
Waste Code	Waste Description and Treatment/Regulatory Subcategory ¹	Common Name	CAS ² Number	Concentration _mg/l ³ ; or Technology Code ⁴	Concentration in mg/kg ⁵ unless noted as "mg/l TCLP" or Technology Code
K086	Solvent wastes and sludges, caustic washes and sludges, or	Acetone	67-64-1	0.28	160
	water washes and sludges from cleaning tubs and equipment used in the formulation of ink from pigments, driers,	Acetophenone	96-86-2	0.010	9.7
	soaps, and stabilizers containing chromium and lead.	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
		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

		REGULATED HAZARDOU	S CONSTITUENT	WASTEWATERS	NONWASTEWATERS
Waste Code	Waste Description and Treatment/Regulatory Subcategory ¹	Common Name	CAS ² Number	Concentration mg/l ³ ; or Technology Code ⁴	Concentration in mg/kg ⁵ unless noted as "mg/l TCLP" or Technology Code
		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	0.86 mg/l TCLP
		Cyanides (Total) ⁷	57-12-5	1.2	590
	· ·	Lead	7439-92-1	0.69	0.37 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
		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

		REGULATED HAZARDOUS CONSTITUENT		WASTEWATERS	NONWASTEWATERS
Waste Code	Waste Description and Treatment/Regulatory Subcategory ¹	Common Name	CAS ² Number	Concentration mg/l ³ ; or Technology Code ⁴	Concentration in mg/kg ⁵ unless noted as "mg/l TCLP" or Technology Code
		Xylenes-mixed isomers (sum of o-, m-, and p-xylene concentrations)	1330-20-7	0.32	30
		Lead	7439-92-1	0.69	0.37 mg/l TCLP
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
		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-	Hexachloroethane	67-72-1	0.055	30
	trichloroethane.	Pentachloroethane	76-01-7	0.055	6.0

		REGULATED HAZARDOU	S CONSTITUENT	WASTEWATERS	NONWASTEWATERS
Waste Code	Waste Description and Treatment/Regulatory Subcategory ¹	Common Name	. CAS ² Number	Concentration .mg/l ³ ; or Technology Code ⁴	Concentration in mg/kg ⁵ unless noted as "mg/l TCLP" or Technology Code
		1,1,1,2- Tetrachloroethane	630-20-6	0.057	6.0
		1,1,2,2- Tetrachloroethane	79-34-6	0.057	6.0
		Tetrachloroethyle Ne	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
		1,1,2,2- Tetrachloroethane	79-34-6	0.057	6.0
		Tetrachloroethyle ne	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

		-		N INLINDOOD WICHLO	
_				REGULATED HAZARDOUS	CONSTITUENT
E N		Waste Code	Waste Description and Treatment/Regulatory Subcategory ¹	Common Name	CAS ² Number
₹				Heptachlor epoxide	1024-57-3
ธ				Hexachlorocyclope ntadiene	77-47-4
ŏ		к098	Untreated process wastewater from the production of toxaphene.	Toxaphene	8001-35-2
0		к099	Untreated wastewater from the production of 2,4-D.	2,4- Dichlorophenoxyac etic acid	94-75-7
N				HxCDDs (All Hexachlorodibenzo -p-dioxins)	NA
H				HxCDFs (All Hexachlorodibenzo furans)	NA
R C				PeCDDs (All Pentachlorodibenz o-p-dioxins)	NA
A				PeCDFs (All Pentachlorodibenz ofurans)	NA
P				TCDDs (All Tetrachlorodibenz o-p-dioxins)	NA
Ш				TCDFs (All Tetrachlorodibenz ofurans)	NA
2		K100	Waste leaching solution from acid leaching of emission	Cadmium	7440-43-9
			control dust/sludge from secondary lead smelting.	Chromium (Total)	7440-47-3

WASTEWATERS

Concentration mg/l³; or Technology Code⁴

0.016

0.057

0.0095

0.72

0.000063

0.000063

0.000063

0.000035

0.000063

0.000063

0.69

2.77

NONWASTEWATERS

Concentration in mg/kg⁵ unless noted as "mg/l TCLP" or

Technology Code

0.066

2.4

2.6

10

0.001

0.001

0.001

0.001

0.001

0.001

0.19 mg/l TCLP

0.86 mg/l TCLP

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		REGULATED HAZARDOU	ULATED HAZARDOUS CONSTITUENT WASTEWATERS		NONWASTEWATERS
Waste Code	Waste Description and Treatment/Regulatory Subcategory ¹	Common Name	CAS ² Number	Concentration mg/l ³ ; or Technology Code ⁴	Concentration in mg/kg ⁵ unless noted as "mg/l TCLP" or Technology Code
		Lead	7439-92-1	0.69	0.37 mg/l TCLP
к101	Distillation tar residues from the distillation of aniline-	o-Nitroaniline	88-74-4	0.27	14
	based compounds in the production of veterinary pharmaceuticals from arsenic or organo-arsenic compounds.	Arsenic	7440-38-2	1.4	5.0 mg/l TCLP
		Cadmium	7440-43-9	0.69	NA
		Lead	7439-92-1	0.69	NA
		Mercury	7439-97-6	0.15	NA
к102	K102 Residue from the use of activated carbon for decolorization in the production of veterinary pharmaceuticals from arsenic or organo-arsenic compounds.	o-Nitrophenol	88-75-5	0.028	13
in the production of veterir arsenic or organo-arsenic co		Arsenic	7440-38-2	1.4	5.0 mg/l TCLP
		Cadmium	7440-43-9	0.69	NA
		Lead	7439-92-1	0.69	NA
		Mercury	7439-97-6	0.15	NA
к103	Process residues from aniline extraction from the	Aniline	62-53-3	0.81	14
	production of aniline.	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
к104	Combined wastewater streams generated from	Aniline	62-53-3	0.81	14
	nitrobenzene/aniline production.	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

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		REGULATED HAZARDOUS	S CONSTITUENT	WASTEWATERS	NONWASTEWATERS
Waste Code	Waste Description and Treatment/Regulatory Subcategory ¹	Common Name	CAS ² Number	Concentration mg/l ³ ; or Technology Code ⁴	Concentration in mg/kg ⁵ unless noted as "mg/l TCLP" or Technology Code
		Cyanides (Total) ⁷	57-12-5	1.2	590
K105 Separated aqueous stream from the reactor product washing step in the production of chlorobenzenes.	Separated aqueous stream from the reactor product washing	Benzene	71-43-2	0.14	10
	step in the production of chlorobenzenes.	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
к106	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 C	NA	INCIN; or CHOXD fb Carbn; or blodg fb Carbn	INCIN
к108	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	INCIN; or CHOXD fb CARBN; or BIODG fb CARBN	INCIN

		REGULATED HAZARDOU	S CONSTITUENT	WASTEWATERS	NONWASTEWATERS
Waste Code	Waste Description and Treatment/Regulatory Subcategory ¹	Common Name	CAS ² Number	Concentration mg/l ³ ; or Technology Code ⁴	Concentration in mg/kg ⁵ unless noted as "mg/l TCLP" or Technology Code
К109	Spent filter cartridges from product purification from the production of 1,1-dimethylhydrazine (UDMH) from carboxylic acid hydrazides.	NA	NA	INCIN; or CHOXD fb Carbn; or biodg fb Carbn	INCIN
к110	Condensed column overheads from intermediate separation from the production of 1,1-dimethylhydrazine (UDMH) from carboxylic acid hydrazides.	NA	NA	INCIN; or CHOXD fb Carbn; or BIODG fb Carbn	INCIN
K111	Product washwaters from the production of dinitrotoluene via nitration of toluene	2,4- Dinitrotoluene	121-1-1	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	INCIN; or CHOXD fb CARBN; or BIODG fb CARBN	INCIN
К113	Condensed liquid light ends from the purification of toluenediamine in the production of toluenediamine via hydrogenation of dinitrotoluene.	NA	NA	CARBN; or INCIN	CMBST
К114	Vicinals from the purification of toluenediamine in the production of toluenediamine via hydrogenation of dinitrotoluene.	NA	NA	CARBN; or INCIN	CMBST
К115	Heavy ends from the purification of toluenediamine in the	Nickel	7440-02-0	3.98	5.0 mg/l TCLP
	production of toluenediamine via hydrogenation of dinitrotoluene.	NA	NA	CARBN; or INCIN	CMBST
К116	Organic condensate from the solvent recovery column in the production of toluene diisocyanate via phosgenation of toluenediamine.	NA	NA	CARBN; or INCIN	CMBST
К117	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

	·	REGULATED HAZARDOUS	S CONSTITUENT	WASTEWATERS	NONWASTEWATERS
Waste Code	Waste Description and Treatment/Regulatory Subcategory ¹	Common Name	CAS ² Number	Concentration mg/l ³ ; or Technology Code ⁴	Concentration in mg/kg ⁵ unless noted as "mg/l TCLP" or Technology Code
		Ethylene dibromide (1,2- Dibromoethane)	106-93-4	0.028	15
к118	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
	bromination of ethene.	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	INCIN; or CHOXD fb (BIODG or CARBN)	INCIN
К124	Reactor vent scrubber water from the production of ethylenebisdithiocarbamic acid and its salts.	NA .	NA	INCIN; or CHOXD fb (BIODG or CARBN)	INCIN .
К125	Filtration, evaporation, and centrifugation solids from the production of ethylenebisdithiocarbamic acid and its salts.	NA	NA	INCIN; or CHOXD fb (BIODG or CARBN)	INCIN
к126	Baghouse dust and floor sweepings in milling and packaging operations from the production or formulation of ethylenebisdithiocarbamic acid and its salts.	NA	NA	INCIN; or CHOXD fb (BIODG or CARBN)	INCIN
к131	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	Methyl bromide (Bromomethane)	74-83-9	0.11	15
eth	ethene.	Chloroform	67-66-3	0.046	6.0

		REGULATED HAZARDOU	S CONSTITUENT	WASTEWATE
Waste Code	Waste Description and Treatment/Regulatory Subcategory ¹	Common Name	CAS ² Number	Concentrat mg/l ³ ; c Technology
		Ethylene dibromide (1,2- Dibromoethane)	106-93-4	0.028
K141	Process residues from the recovery of coal tar, including,	Benzene	71-43-2	0.14
	but not limited to, collecting sump residues from the production of coke or the recovery of coke by-products	Benz(a)anthracene	56-55-3	0.059
	produced from coal. This listing does not include K087 (decanter tank tar sludge from coking operations).	Benzo(a)pyrene	50-2-8	0.061
		Benzo(b)fluoranth ene (difficult to distinguish from benzo(k)fluoranth ene)	205-99-2	0.11
		Benzo(k)fluoranth ene (difficult to distinguish from benzo(b)fluoranth ene)	207-08-9	0.11
		Chrysene	218-01-9	0.059
		Dibenz(a,h)anthra cene	53-70-3	0.055
		Indeno(1,2,3- cd)pyrene	193-39-5	0.005
К142	Tar storage tank residues from the production of coke from	Benzene	71-43-2	0.14
	coal or from the recovery of coke by-products produced from coal.	Benz(a)anthracene	56-55-3	0.059
	Benzo(a)pyrene	50-32-8	0.06	
		Benzo(b)fluoranth ene (difficult to distinguish from benzo(k)fluoranth ene)	205-99-2	. 0.11

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TREATMENT STANDARDS FOR HAZARDOUS WASTES

NONWASTEWATERS

Concentration in mg/kg⁵ unless noted as "mg/l TCLP" or Technology Code

15

10

3.4

3.4

6.8

6.8

3.4

8.2

3.4

10

3.4 3.4

6.8

ENT	Waste Code	Waste Description and Treatment/Regulatory Subcategory ¹
OCUM		
VE D	K143	Process residues from the recovery of light oil, including, but not limited to, those generated in stills, decanters, and wash oil recovery units from the recovery of coke by-
ARCHI		products produced from coal.
PA		· · ·
US B	к144	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.

REGULATED HAZARDOUS CONSTITUENT

Common Name

Benzo(k)fluoranth

ene (difficult to distinguish from benzo(b)fluoranth

Dibenz(a,h)anthra

Benz(a)anthracene

Benzo(b)fluoranth

ene (difficult to distinguish from benzo(k)fluoranth

Benzo(k)fluoranth

ene (difficult to distinguish from benzo(b)fluoranth

Benz(a)anthracene

Benzo(a)pyrene

Benzo(a)pyrene

Ideno(1,2,3-

cd)pyrene

Benzene

ene)

ene)

Chrysene

Benzene

ene) Chrysene

cene

CAS ² Number	Concentration mg/l ³ ; or Technology Code ⁴	Concentration in mg/kg ⁵ unless noted as "mg/l TCLP" or Technology Code
207-08-9	0.11	6.8
218-01-9	0.059	3.4

53-70-3

193-39-5

71-43-2

56-55-3

50-32-8

205-99-2

207-08-9

218-01-9

71-43-2

56-55-3

50-32-8

WASTEWATERS

0.055

0.0055

0.14

0.059

0.061

0.11

0.11

0.059

0.14

0.059

0.061

NONWASTEWATERS

8.2

3.4

10

3.4

3.4

6.8

6.8

3.4

10

3.4

3.4

		REGULATED HAZARDOUS	CONSTITUENT	WASTEWATERS	NONWASTEWATERS
Waste Code	Waste Description and Treatment/Regulatory Subcategory ¹	Common Name	CAS ² Number	Concentration mg/l ³ ; or Technology Code ⁴	Concentration in mg/kg ⁵ unless noted as "mg/l TCLP" or Technology Code
		Benzo(b)fluoranth ene (difficult to distinguish from benzo(k)fluoranth ene)	205-99-2	0.11	6.8
		Benzo(k)fluoranth ene (difficult to distinguish from benzo(b)fluoranth ene)	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	Benzene	71-43-2	0.14	10
	operations from the recovery of coke by products produced from coal.	cene Benzene 71-43-2 Benz(a)anthracene 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
К147	Tar storage tank residues from coal tar refining.	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
		Benzo(b)fluoranth ene (difficult to distinguish from benzo(k)fluoranth ene)	205-99-2	0.11	6.8

		REGULATED HAZARDOUS	CONSTITUENT	WASTEWATERS	NONWASTEWATERS
Waste Code	Waste Description and Treatment/Regulatory Subcategory ¹	Common Name	CAS ² Number	Concentration mg/l ³ ; or Technology Code ⁴	Concentration in mg/kg ⁵ unless noted as "mg/l TCLP" or Technology Code
		Benzo(k)fluoranth ene (difficult to distinguish from benzo(b)fluoranth ene)	207-08-9	0.11	6.8
		Chrysene	218-01-9	0.059	3.4
<i></i>		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
к148	Residues from coal tar distillation, including, but not	Benz(a)anthracene	56-55-3	0.059	3.4
	limited to, still bottoms.	Benzo(a)pyrene	50-32-8	0.061	3.4
		Benzo(b)fluoranth ene (difficult to distinguish from benzo(k)fluoranth ene)	205-99-2	0.11	6.8
		Benzo(k)fluoranth ene (difficult to distinguish from benzo(b)fluoranth ene)	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

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		REGULATED HAZARDOUS	S CONSTITUENT	WASTEWATERS	NONWASTEWATERS
Waste Code	Waste Description and Treatment/Regulatory Subcategory ¹	Common Name	CAS ² Number	Concentration mg/l ³ ; or Technology Code ⁴	Concentration in mg/kg ⁵ unless noted as "mg/l TCLP" or Technology Code
K149	Distillation bottoms from the production of alpha- (or	Chlorobenzene	108-90-7	0.057	6.0
	methyl-) chlorinated toluenes, ring-chlorinated toluenes, benzoyl chlorides, and compounds with mixtures of these	Chloroform	67-66-3	0.046	6.0
	functional groups. (This waste does not include still bottoms from the distillations of benzyl chloride.)	Chloromethane	74-87-3	0.19	30
		p-Dichlorobenzene	106-46-7	0.090	6.0
		Hexachlorobenzene	118-74-1	0.055	10
		Pentachlorobenzen e	608-93-5	0.055	10
		1,2,4,5- Tetrachlorobenzen e	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	Carbon tetrachloride	56-23-5	0.057	6.0
	processes associated with the production of alpha- (or methyl-) chlorinated toluenes, ring-chlorinated toluenes,	Chloroform	67-66-3	0.046	6.0
	benzoyl chlorides, and compounds with mixtures of these functional groups.	Chloromethane	74-87-3	0.19	30
		p-Dichlorobenzene	106-46-7	0.090	6.0
		Hexachlorobenzene	118-74-1	0.055	10
	· · ·	Pentachlorobenzen e	608-93-5	0.055	10
		1,2,4,5- Tetrachlorobenzen e	95-94-3	0.055	14
		1,1,2,2- Tetrachloroethane	79-34-5	0.057	6.0

		REGULATED HAZARDOU	S CONSTITUENT	WASTEWATERS	NONWASTEWATERS
Waste Code	Waste Description and Treatment/Regulatory Subcategory ¹	Common Name	CAS ² Number	Concentration mg/l ³ ; or Technology Code ⁴	Concentration in mg/kg ⁵ unless noted as "mg/l TCLP" or Technology Code
		Tetrachloroethyle ne	127-18-4	0.056	6.0
		1,2,4- Trichlorobenzene	120-82-1	0.055	19
K151	Wastewater treatment sludges, excluding neutralization and	Benzene	71-43-2	0.14	10
	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.	Carbon tetrachloride	56-23-5	0.057	6.0
		Chloroform	67-66-3	0.046	6.0
		Hexachlorobenzene	118-74-1	0.055	10
		Pentachlorobenzen e	608-93-5	0.055	10
		1,2,4,5- Tetrachlorobenzen e	95-94-3	0.055	14
		Tetrachloroethyle ne	127-18-4	0.056	6.0
		Toluene	108-88-3	0.080	10
P001	Warfarin, & salts, when present at concentrations greater than 0.3%	Warfarin	81-81-2	(WETOX or CHOXD) fb CARBN; or INCIN	CMBST
P002	1-Acetyl-2-thiourea	1-Acetyl-2- thiourea	591-08-2	(WETOX or CHOXD) fb CARBN; or INCIN	INCIN
P003	Acrolein	Acrolein	107-02-8	0.29	CMBST
D00/		1		A 494	

	Waste Description and Treatment/Regulatory Subcategory ¹	REGULATED HAZARDOU	S CONSTITUENT	WASTEWATERS	NONWASTEWATERS
Waste Code		Common Name	CAS ² Number	Concentration mg/l ³ ; or Technology Code ⁴	Concentration in mg/kg ⁵ unless noted as "mg/l TCLP" or Technology Code
P005	Allyl alcohol	Allyl alcohol	107-18-6	(WETOX or CHOXD) fb CARBN; or INCIN	CMBST
P006	Aluminum phosphide	Aluminum phosphide	20859-73-8	CHOXD; CHRED; or INCIN	CHOXD; CHRED; or INCIN
P007	5-Aminomethyl 3-isoxazolol	5-Aminomethyl 3- isoxazolol	2763-96-4	(WETOX or CHOXD) fb Carbn; or incin	INCIN
P008	4-Aminopyridine	4-Aminopyridine	504-24-5	(WETOX or CHOXD) fb Carbn; or Incin	INCIN
P009	Ammonium picrate	Ammonium picrate	131-74-8	CHOXD; CHRED; CARBN; BIODG; or Incin	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	7.6 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 INCIN	INCIN
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 INCIN	INCIN

	Waste Description and Treatment/Regulatory Subcategory ¹	REGULATED HAZARDOU	S CONSTITUENT	WASTEWATERS	NONWASTEWATERS
Waste Code		Common Name	CAS ² Number	Concentration mg/l ³ ; or Technology Code ⁴	Concentration in mg/kg ⁵ unless noted as "mg/l TCLP" or Technology Code •
P017	Bromoacetone	Bromoacetone	598-31-2	(WETOX or CHOXD) fb CARBN; or INCIN	INCIN
P018	Brucine	Brucine	357-57-3	(WETOX or CHOXD) fb CARBN; or incin	INCIN
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	INCIN
	-	Carbon disulfide; alternate ⁰ standard for nonwastewaters only	75-15-0	· NA	4.8 mg/l TCLP
P023	Chloroacetaldehyde	Chloroacetaldehyd e	107-20-0	(WETOX or CHOXD) fb CARBN; or INCIN	INCIN
P024	p-Chloroaniline	p-Chloroaniline	106-47-8	0.46	16
P026	1-(o-Chlorophenyl)thiourea	1-(o- Chlorophenyl)thio urea	5344-82-1	(WETOX or CHOXD) fb Carbn; or Incin	INCIN
P027	3-Chloropropionitrile	3- Chloropropionitri le	542-76-7	(WETOX or CHOXD) fb Carbn; or incin	INCIN

		REGULATED HAZARDOU	S CONSTITUENT	WASTEWATERS	NONWASTEWATERS
Waste Code	Waste Description and Treatment/Regulatory Subcategory ¹	Common Name	CAS ² Number	Concentration mg/l ³ ; or Technology Code ⁴	Concentration in mg/kg ⁵ unless noted as "mg/l TCLP" or Technology Code
P028	Benzyl chloride	Benzyl chloride	100-44-7	(WETOX or CHOXD) fb CARBN; or INCIN	INCIN
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 Incin	CHOXD; WETOX; or Incin
P033	Cyanogen chloride	Cyanogen chloride	506-77-4	CHOXD; WETOX; or INCIN	CHOXD; WETOX; or Incin
P034	2-Cyclohexyl-4,6-dinitrophenol	2-Cyclohexyl-4,6- dinitrophenol	131-89-5	(WETOX or CHOXD) fb CARBN; or Incin	INCIN
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 INCIN	CMBST
P041	Diethyl-p-nitrophenyl phosphate	Diethyl-p- nitrophenyl phosphate	311-45-5	CARBN; or INCIN	CMBST

		REGULATED HAZARDOUS CONSTITUENT		WASTEWATERS	NONWASTEWATERS
Waste Code	Waste Description and Treatment/Regulatory Subcategory ¹	Common Name	CAS ² Number	Concentration mg/l ³ ; or Technology Code ⁴	Concentration in mg/kg ⁵ unless noted as "mg/l TCLP" or Technology Code
P042	Epinephrine	Epinephrine	51-43-4	(WETOX or CHOXD) fb CARBN; or INCIN	INCIN
P04 3	Diisopropylfluorophosphate (DFP)	Diisopropylfluoro phosphate (DFP)	55-91-4	CARBN; or INCIN	CMBST
P044	Dimethoate	Dimethoate	60-51-5	CARBN; or INCIN	CMBST
P045	Thiofanox	Thiofanox	39196-18-4	(WETOX or CHOXD) fb CARBN; or INCIN	INCIN
P046	alpha, alpha-Dimethylphenethylamine	alpha, alpha- Dimethylphenethyl amine	122-09-8	(WETOX or CHOXD) fb CARBN; or INCIN	INCIN
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 incin	INCIN
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 incin	INCIN
P050	Endosulfan	Endosulfan I	939-98-8	0.023	0.066
		Endosulfan II	33213-6-5	0.029	0.13
		Endosul fan sul fate	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

		REGULATED HAZARDOU	S CONSTITUENT	WASTEWATERS	NONWASTEWATERS
Waste Code	Waste Description and Treatment/Regulatory Subcategory ¹	Common Name	CAS ² Number	Concentration mg/l ³ ; or Technology Code ⁴	Concentration i mg/kg ⁵ unless noted as "mg/l TCLP" or Technology Cod
P054	Aziridine	Aziridine	151-56-4	(WETOX or CHOXD) fb CARBN; or Incin	INCIN
P056	Fluorine	Fluoride (measured in wastewaters only)	16964-48-8	35	ADGAS fb NEUTR
P057	Fluoroacetamide	Fluoroacetamide	640-19-7	(WETOX or CHOXD) fb CARBN; or Incin	INCIN
P058	Fluoroacetic acid, sodium salt	Fluoroacetic acid, sodium salt	62-74-8	(WETOX or CHOXD) fb CARBN; or incin	INCIN
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 INCIN	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 incin	INCIN
P065	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

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	Waste Description and Treatment/Regulatory Subcategory ¹	REGULATED HAZARDOU	S CONSTITUENT	WASTEWATERS	NONWASTEWATERS
Waste Code		Common Name	CAS ² Number	Concentration mg/l ³ ; or Technology Code ⁴	Concentration in mg/kg ⁵ unless noted as "mg/l TCLP" or Technology Code
	P065 (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	7339-97-6	NA	RMERC
	P065 (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 TCLP
	P065 (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 P065 (mercury fulminate) wastewaters.	Mercury	7439-97-6	0.15	NA
P066	Methomyl	Methomyl	16752-77-5	(WETOX or CHOXD) fb Carbn; or incin	INCIN
P067	2-Methyl-aziridine	2-Methyl- aziridine	75-55-8	(WETOX or CHOXD) fb Carbn; or incin	INCIN
P068	Methyl hydrazine	Methyl hydrazine	60-34-4	CHOXD; CHRED; CARBN; BIODG; or INCIN	CHOXD; CHRED, or CMBST
P069	2-Methyllactonitrile	2- Methyllactonitril e	75-86-5	(WETOX or CHOXD) fb Carbn; or incin	INCIN
P070	Aldicarb	Aldicarb	116-06- 3	(WETOX or CHOXD) fb CARBN; or INCIN	INCIN
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 INCIN	INCIN
P073	Nickel carbonyl	Nickel	7440-02-0	3.98	5.0 mg/l TCLP

	Waste Description and Treatment/Regulatory Subcategory ¹	REGULATED HAZARDOU	S CONSTITUENT	WASTEWATERS	NONWASTEWATERS
Waste Code		Common Name	CAS ² Number	Concentration mg/l ³ ; or Technology Code ⁴	Concentration in mg/kg ⁵ unless noted as "mg/l TCLP" or Technology Code
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	5.0 mg/l TCLP
P075	Nicotine and salts	Nicotine and salts	54-11-5	(WETOX or CHOXD) fb Carbn; or Incin	INCIN
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 INCIN	CHOXD; CHRED; or CMBST
P082	N-Nitrosodimethylamine	N- Nitrosodimethylam ine	62-75-9	0.40	2.3
P084	N-Nitrosomethylvinylamine	N- Nitrosomethylviny lamine	4549-40-0	(WETOX or CHOXD) fb CARBN; or Incin	INCIN
P085	Octamethylpyrophosphoramide	Octamethylpyropho sphoramide	152-16-9	CARBN; or INCIN	CMBST
P087	Osmium tetroxide	Osmium tetroxide	20816-12-0	RMETL; or RTHRM	RMETL; or RTHRM
P088	Endothall	Endothal l	145-73-3	(WETOX or CHOXD) fb CARBN; or INCIN	CMBST
P089	Parathion	Parathion	56-38-2	0.014	4.6

	Waste Description and Treatment/Regulatory Subcategory ¹	REGULATED HAZARDOU	S CONSTITUENT	WASTEWATERS	NONWASTEWATERS
Waste Code		Common Name	CAS ² Number	Concentration mg/l ³ ; or Technology Code ⁴	Concentration in mg/kg ⁵ unless noted as "mg/l TCLP" or Technology Code
P092	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
	P092 (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
	P092 (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
	P092 (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 P092 (phenyl mercuric acetate) wastewaters.	Mercury	7439-97-6	0.15	NA
P093	Phenylthiouea	Phenylthiouea .	103-85-5	(WETOX or CHOXD) fb Carbn; or incin	INCIN
P094	Phorate	Phorate	298-02-2	0.021	4.6
P095	Phosgene	Phosgene	75-44-5	(WETOX or CHOXD) fb Carbn; or incin	INCIN
P096	Phosphine	Phosphine	7803-51-2	CHOXD; CHRED; or INCIN	CHOXD; CHRED; or INCIN
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

	Waste Description and Treatment/Regulatory Subcategory ¹	REGULATED HAZARDOU	S CONSTITUENT	WASTEWATERS	NONWASTEWATERS
Waste Code		Common Name	CAS ² Number	Concentration _mg/l ³ ; or Technology Code ⁴	Concentration in mg/kg ⁵ unless noted as "mg/l TCLP" or Technology Code
		Cyanides (Amenable) ⁷	57-12-5	0.86	30
		Silver	7440-22-4	0.43	0.30 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 INCIN	CMBST
P103	Selenourea	Selenium	7782-49-2	0.82	0.16 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	0.30 mg/l TCLP
P105	Sodium azide	Sodium azide	26628-22-8	CHOXD; CHRED; CARBN; BIODG; of Incin	CHOXD; CHRED; 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 INCIN	INCIN
P109	Tetraethyldithiopyrophosphate	Tetraethyldithiop yrophosphate	3689-24-5	CARBN; or INCIN	CMBST
P110	Tetraethyl lead	lead	7439-92-1	0.69	0.37 mg/l TCLP
P111	Tetraethylpyrophosphate	Tetraethylpyropho sphate	107-49-3	CARBN; or INCIN	CMBST

	Waste Description and Treatment/Regulatory Subcategory ¹	REGULATED HAZARDOU	S CONSTITUENT	WASTEWATERS	NONWASTEWATERS
Waste Code		Common Name	CAS ² Number	Concentration mg/l ³ ; or Technology Code ⁴	Concentration in mg/kg ⁵ unless noted as "mg/l TCLP" or Technology Code
P112	Tetranitromethane	Tetranitromethane	509-14-8	CHOXD; CHRED; CARBN; BIODG; or Incin	CHOXD; CHRED; 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	0.16 mg/l TCLP
P115	Thallium (I) sulfate	Thallium (measured in wastewaters only)	7440-28-0	1.4	RTHRM; or STABL
P116	Thiosemicarbazide	Thiosemicarbazide	79-19-6	(WETOX or CHOXD) fb CARBN; or incin	INCIN
P118	Trichloromethanethiol	Trichloromethanet hiol	75-70-7	(WETOX or CHOXD) fb CARBN; or INCIN	INCIN
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_3P_2 , when present at concentrations greater than 10%	Zinc Phosphide	1314-84-7	CHOXD; CHRED; or INCIN	CHOXD; CHRED; or INCIN
P123	Toxaphene	Toxaphene	8001-35-2	0.0095	2.6

Waste Code	Waste Description and Treatment/Regulatory Subcategory ¹	REGULATED HAZARDOUS CONSTITUENT		WASTEWATERS	NONWASTEWATERS
		Common Name	CAS ² Number	Concentration mg/l ³ ; or Technology Code ⁴	Concentration in mg/kg ⁵ unless noted as "mg/l TCLP" or Technology Code
U001	Acetaldehyde	Acetaldehyde	75-07-0	(WETOX or CHOXD) fb CARBN; or INCIN	CMBST
U002	Acetone	Acetone	67-64-1	0.28	160
U00 3	Acetonitrile	Acetonitrile	75-05-8	5.6	INCIN
		Acetonitrile; alternate ⁶ standard for nonwastewaters only	75-05-8	NA	1.8
U004	Acetophenone	Acetophenone	98-86-2	0.010	9.7
U005	2-Acetylaminofluorene	2- Acetylaminofluore ne	53-96-3	0.059	140
U006	Acetyl chloride	Acetyl Chloride	75-36-5	(WETOX or CHOXD) fb CARBN; or INCIN	INCIN
U007	Acrylamide	Acrylamide	79-06-1	(WETOX or CHOXD) fb Carbn; or incin	INCIN
U008	Acrylic acid	Acrylic acid	79-10-7	(WETOX or CHOXD) fb CARBN; or incin	CMBST
U009	Acrylonitrile	Acrylonitrile	107-13-1	0.24	84
U010	Mitomycin C	Mitomycin C	50-07-7	(WETOX or CHOXD) fb CARBN; or INCIN	INCIN
U011	Amitrole	Amitrole	61-82-5	(WETOX or CHOXD) fb CARBN; or INCIN	INCIN

Waste Code	Waste Description and Treatment/Regulatory Subcategory ¹	REGULATED HAZARDOUS CONSTITUENT		WASTEWATERS	NONWASTEWATERS
		Common Name	CAS ² Number	Concentration mg/l ³ ; or Technology Code ⁴	Concentration in mg/kg ⁵ unless noted as "mg/l TCLP" or Technology Code
U012	Aniline	Aniline	62-53-3	0.81	14
U014	Auramine	Auramine	492-80-8	(WETOX or CHOXD) fb CARBN; or INCIN	INCIN
U0 1 5	Azaserine	Azaserine	115-02-6	(WETOX or CHOXD) fb CARBN; or Incin	INCIN
U0 16	Benz(c)acridine	Benz(c)acridine	225-51-4	(WETOX or CHOXD) fb CARBN; or INCIN	CMBST
U017	Benzal chloride	Benzal chloride	98-87-3	(WETOX or CHOXD) fb Carbn; or incin	INCIN
U018	Benz(a)anthracene	Benz(a)anthracene	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 Incin	INCIN
U021	Benzidine	Benzidine	92-87-5	(WETOX or CHOXD) fb CARBN; or INCIN	INCIN
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 Incin	CHOXD; CHRED; or CMBST
U024	bis(2-Chloroethoxy)methane	bis(2- Chloroethoxy)meth ane	111-91-1	0.036	7.2
		REGULATED HAZARDOUS CONSTITUENT		WASTEWATERS	
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Waste Code	Waste Description and Treatment/Regulatory Subcategory ¹	Common Name	CAS ² Number	Concentration mg/l ³ ; or Technology Code ⁴	Concentration in mg/kg ⁵ unless noted as "mg/l TCLP" or Technology Code
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 incin	INCIN
U027	bis(2-Chloroisopropyl)ether	bis(2- Chloroisopropyl)e ther	39638-32-9	(WETOX or CHOXD) fb CARBN; or INCIN	7.2
U028	bis(2-Ethylhexyl)phthalate	bis(2- Ethylhexyl)phthal ate	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	0.86 mg/l TCLP
U033	Carbon oxyfluoride	Carbon oxyfluoride	353-50-4	(WETOX or CHOXD) fb CARBN; or INCIN	INCIN
U034	Trichloroacetaldehyde (Chloral)	Trichloroacetalde hyde (Chloral)	75-87-6	(WETOX or CHOXD) fb CARBN; or INCIN	INCIN
U035	Chlorambucil	Chlorambucil	305-03-3	(WETOX or CHOXD) fb CARBN; or INCIN	INCIN
U036	Chlordane	Chlordane (alpha and gamma isomers)	57-74-9	0.0033	0.26

	Waste Description and Treatment/Regulatory Subcategory ¹	REGULATED HAZARDOUS CONSTITUENT		WASTEWATERS	NONWASTEWATERS
Weste Code		Common Name	CAS ² Number	Concentration mg/l ³ ; or Technology Code ⁴	Concentration in mg/kg ⁵ unless noted as "mg/l TCLP" or Technology Code
U037	Chlorobenzene	Chlorobenzene	108-90-7	0.057	6.0
U038	Chlorobenzilate	Chlorobenzilate	510-15-6	0.10	INCIN
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 INCIN	INCIN
U042	2-Chloroethyl vinyl ether	2-Chloroethyl vinyl ether	110-75-8	0.062	INCIN
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 Incin	INCIN
U047	2-Chloronaphthalene	2- Chloronaphthalene	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 Incin	INCIN
U050	Chrysene	Chrysene	218-01-9	0.059	3.4
U051	Creosote	Naphthalene	91-20-3	0.059	5.6
		Pentachlorophenol	87-86-5	0.089	7.4
		Phenanthrene	85-01-8	0.059	5.6

	Waste Description and Treatment/Regulatory Subcategory ¹	REGULATED HAZARDOU	S CONSTITUENT	WASTEWATERS	NONWASTEWATERS
Waste Code		Common Name	CAS ² Number	Concentration mg/l ³ ; or Technology Code ⁴	Concentration in mg/kg ⁵ unless noted as "mg/l TCLP" or Technology Code
		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	0.37 mg/l TCLP
U052	Cresols (Cresylic acid)	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
U053	Crotonaldehyde	Crotonaldehyde	4170-30-3	(WETOX or CHOXD) fb CARBN; or INCIN	CMBST
U055	Cumene	Cumene .	98-82-8	(WETOX or CHOXD) fb CARBN; or INCIN	CMBST

		REGULATED HAZARDOUS CONSTITUENT		WASTEWATERS	NONWASTEWATERS
Waste Code	Waste Description and Treatment/Regulatory Subcategory ¹	Common Name	CAS ² Number	Concentration mg/l ³ ; or Technology Code ⁴	Concentration in mg/kg ⁵ unless noted as "mg/l TCLP" or Technology Code
U056	Cyclohexane	Cyclohexane	110-82-7	(WETOX or CHOXD) fb CARBN; or INCIN	CMBST
U057	Cyclohexanone	Cyclohexanone	108-94-1	0.36	CMBST
		Cyclohexanone; alternate ⁸ standard for nonwastewaters only	108-94-1	NA	0.75 mg/l TCLP
U058	Cyclophosphamide	Cyclophosphamide	50-18-0	CARBN; or INCIN	CMBST
U059	Daunomycin	Daunomycin	20830-81-3	(WETOX or CHOXD) fb CARBN; or INCIN	INCIN
U060	DDD	o,p'-DDD	53-19-0	0.023	0.087
		p,p'-DDD	72-54-8	0.023	0.087
U061	DDT	o,p'-DDT	789-02-6	0.0039	0.087
		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 INCIN	INCIN
U063	Dibenz(a,h)anthracene	Dibenz(a,h)anthra cene	53-70-3	0.055	8.2

	Waste Description and Treatment/Regulatory Subcategory ¹	REGULATED HAZARDOUS CONSTITUENT		WASTEWATERS	NONWASTEWATERS
Waste Code		Common Name	CAS ² Number	Concentration mg/l ³ ; or Technology Code ⁴	Concentration in mg/kg ⁵ unless noted as "mg/l TCLP" or Technology Code
U064	Dibenz(a,i)pyrene	Dibenz(a,i)pyrene	189-55-9	(WETOX or CHOXD) fb CARBN; or INCIN	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
U0 7 0	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 INCIN	INCIN
U074	1,4-Dichloro-2-butene	cis-1,4-Dichloro- 2-butene	1476-11-5	(WETOX or CHOXD) fb CARBN; or incin	INCIN
		trans-1,4- Dichloro-2-butene	764-41-0	(WETOX or CHOXD) fb CARBN; or incin	INCIN
U0 75	Dichlorodifluoromethane	Dichlorodifluorom ethane	75-71-8	0.23	7.2
U076	1,1-Dichloroethane	1,1- Dichloroethane	75-34-3	0.059	6.0

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	Waste Description and Treatment/Regulatory Subcategory ¹	REGULATED HAZARDOU	REGULATED HAZARDOUS CONSTITUENT		NONWASTEWATERS
Waste Code		Common Name	CAS ² Number	Concentration mg/l ³ ; or Technology Code ⁴	Concentration in mg/kg ⁵ unless noted as "mg/l TCLP" or Technology Code
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 INCIN	CMBST
U086	N,N'-Diethylhydrazine	N,N'- Dîethylhydrazîne	1615-80-1	CHOXD; CHRED; CARBN; BIODG; or Incin	CHOXD; CHRED; or CMBST
U087	O,O-Diethyl S-methyldithiophosphate	0,0-Diethyl S- methyldithiophosp hate	3288-58-2	CARBN; or INCIN	CMBST
U088	Diethyl phthalate	Diethyl phthalate	84-66-2	0.20	28

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		REGULATED HAZARDOU	S CONSTITUENT	WASTEWATERS	NONWASTEWATERS
Waste Code	Waste Description and Treatment/Regulatory Subcategory ¹	Common Name	CAS ² Number	Concentration mg/l ³ ; or Technology Code ⁴	Concentration in mg/kg ⁵ unless noted as "mg/l TCLP" or Technology Code
U089	Diethyl stilbestrol	Diethyl stilbestrol	56-53-1	(WETOX or CHOXD) fb CARBN; or incin	CMBST
U090	Dihydrosafrole	Dihydrosafrole	94-58-6	(WETOX or CHOXD) fb CARBN; or INCIN	CMBST
U091	3,3'-Dimethoxybenzidine	3,3'- Dimethoxybenzidin e	119-90-4	(WETOX or CHOXD) fb CARBN; or INCIN	INCIN
U092	Dimethylamine	Dimethylamine	124-40-3	(WETOX or CHOXD) fb Carbn; or incin	INCIN
U09 3	p-Dimethylaminoazobenzene	p- Dimethylaminoazob enzene	60-11-7	0.13	INCIN
U094	7,12-Dimethylbenz(a)anthracene	7,12- Dimethylbenz(a)an thracene	57-97-6	(WETOX or CHOXD) fb CARBN; or Incin	CMBST
U095	3,3'-Dimethylbenzidine	3,3'- Dimethylbenzidine	119-93-7	(WETOX or CHOXD) fb CARBN; or INCIN	INCIN
U096	alpha, alpha-Dimethyl benzyl hydroperoxide	alpha, alpha- Dimethyl benzyl hydroperoxide	80-15-9	CHOXD; CHRED; CARBN; BIODG; or Incin	CHOXD; CHRED; or CMBST
U097	Dimethylcarbamoyl chloride	Dimethylcarbamoyl chloride	79-44-7	(WETOX or CHOXD) fb CARBN; or INCIN	INCIN
U098	1,1-Dimethylhydrazine	1,1- Dimethylhydrazine	57-14-7	CHOXD; CHRED; Carbn; biodg; or incin	CHOXD; CHRED; or CMBST

TREATMENT STANDARDS FOR HAZARDOUS WASTES

		REGULATED HAZARDOU	S CONSTITUENT	WASTEWATERS	NONWASTEWATERS
Waste Code	Waste Description and Treatment/Regulatory Subcategory ¹	Common Name	CAS ² Number	Concentration mg/l ³ ; or Technology Code ⁴	Concentration in mg/kg ⁵ unless noted as "mg/l TCLP" or Technology Code
U099	1,2-Dimethylhydrazine	1,2- Dimethylhydrazine	540-73-8	CHOXD; CHRED; CARBN; BIODG; or INCIN	CHOXD; CHRED; 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 Incin	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 Incin	CMBST
		1,4-Dioxane; alternate ⁶ standard for nonwastewaters only	123-91-1	NA	170
U109	1,2-Diphenylhydrazine	1,2- Diphenylhydrazine	122-66-7	CHOXD; CHRED; CARBN; BIODG; or Incin	CHOXD; CHRED; or CMBST

		REGULATED HAZARDOU	REGULATED HAZARDOUS CONSTITUENT		NONWASTEWATERS
Waste Code	Waste Description and Treatment/Regulatory Subcategory ¹	Common Name	CAS ² Number	Concentration mg/l ³ ; or Technology Code ⁴	Concentration in mg/kg ⁵ unless noted as "mg/l TCLP" or Technology Code
		1,2- Diphenylhydrazine ; alternate ⁶ standard for wastewaters only	122-66-7	0.087	NA
U110	Dipropylamine	Dipropylamine	142-84-7	(WETOX or CHOXD) fb Carbn; or Incin	INCIN
U111	Di-n-propylnitrosamine	Di-n- propylnitrosamine	621-64-7	0.40	14
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 Incin	CMBST
U114	Ethylenebisdithiocarbamic acid salts and esters	Ethylenebisdithio carbamic acid	111-54-6	(WETOX or CHOXD) fb CARBN; or Incin	INCIN ·
U115	Ethylene oxide	Ethylene oxide	75-21-8	(WETOX or CHOXD) fb CARBN; or INCIN	CHOXD; or INCIN
		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 INCIN	INCIN
U117	Ethyl ether	Ethyl ether	60-29-7	0.12	160
U118	Ethyl methacrylate	Ethyl methacrylate	97-63-2	0.14	160

		REGULATED HAZARDOUS CONSTITUENT		WASTEWATERS	NONWASTEWATERS
Waste Code	Waste Description and Treatment/Regulatory Subcategory ¹	Common Name	CAS ² Number	Concentration mg/l ³ ; or Technology Code ⁴	Concentration in mg/kg ⁵ unless noted as "mg/l TCLP" or Technology Code
U119	Ethyl methane sulfonate	Ethyl methane sulfonate	62-50-0	(WETOX or CHOXD) fb CARBN; or Incin	INCIN
U120	Fluoranthene	Fluoranthene	206-44-0	0.068	3.4
U121	Trichloromonofluoromethane	Trichloromonofluo romethane	75-69-4	0.020	30
U122	Formaldehyde	Formal dehyde	50-00-0	(WETOX or CHOXD) fb CARBN; or Incin	CMBST
U123	Formic acid	Formic acid	64-18-6	(WETOX or CHOXD) fb CARBN; or incin	CMBST
U124	Furan	Furan	110-00-9	(WETOX or CHOXD) fb CARBN; or incin.	CMBST
U125	Furfural	Furfural	98-01-1	(WETOX or CHOXD) fb CARBN; or INCIN	CMBST
U126	Glycidylaldehyde	Glycidylaldehyde	765-34-4	(WETOX or CHOXD) fb CARBN; or INCIN	CMBST
U127	Hexachlorobenzene	Hexachlorobenzene	118-74-1	0.055	10
U128	Hexach l orobut ad i ene	Hexachlorobutadie ne	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

	Waste Description and Treatment/Regulatory Subcategory ¹	REGULATED HAZARDOU	S CONSTITUENT	WASTEWATERS	NONWASTEWATERS
Waste Code		Common Name	CAS ² Number	Concentration mg/l ³ ; or Technology Code ⁴	Concentration in mg/kg ⁵ unless noted as "mg/l TCLP" or Technology Code
		gamma-BHC (Lindane)	58-89-9	0.0017	0.066
U130	Hexachlorocyclopentadiene	Hexachlorocyclope ntadiene	77-47-4	0.057	2.4
U131	Hexachloroethane	Hexachloroethane	67-72-1	0.055	30
U132	Hexach Lorophene	Hexach Lorophene	70-30-4	(WETOX or CHOXD) fb CARBN; or incin	INCIN
U1 33	Hydrazine	Hydrazîne	302-01-2	CHOXD; CHRED; CARBN; DIODG; or INCIN	CHOXD; CHRED; or CMBST
U134	Hydrogen fluoride	Fluoride (measured in wastewaters only)	16964-48-8	35	ADGAS fb NEUTR; or NEUTR
U135	Hydrogen Sulfide	Hydrogen Sulfide	7783-06-4	CHOXD; CHRED; or INCIN	CHOXD; CHRED; or INCIN
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	Iodomethane	Iodomethane	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 INCIN	INCIN
U144	Lead acetate	Lead	7439-92-1	0.69	0.37 mg/l TCLP

		REGULATED HAZARDOUS CONSTITUENT		WASTEWATERS	NONWASTEWATERS
Waste Code	Waste Description and Treatment/Regulatory Subcategory ¹	Common Name	CAS ² Number	Concentration mg/l ³ ; or Technology Code ⁴	Concentration in mg/kg ⁵ unless noted as "mg/l TCLP" or Technology Code
U145	Lead phosphate	Lead	7439-92-1	0.69	0.37 mg/l TCLP
U146	Lead subacetate	Lead	7439-92-1	0.69	0.37 mg/l TCLP
U147	Maleic anhydride	Maleic anhydride	108-31-6	(WETOX or CHOXD) fb CARBN; or INCIN	CMBST
U148	Maleic hydrazide	Maleic hydrazide	123-33-1	(WETOX or CHOXD) fb CARBN; or INCIN	INCIN
U149	Malononitrile	Malononitrile	109-77-3	(WETOX or CHOXD) fb CARBN; or INCIN	INCIN
U150	Melphalan	Melphalan	148-82-3	(WETOX or CHOXD) fb CARBN; or incin	INCIN
U151	U151 (mercury) nonwastewaters that contain greater than or equal to 260 mg/kg total mercury.	Mercury	7439-97-6	NA	RMERC
	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 INCIN	INCIN

		REGULATED HAZARDOU	S CONSTITUENT	WASTEWATERS	NONWASTEWATERS
Waste Code	Waste Description and Treatment/Regulatory Subcategory ¹	Common Name	CAS ² Number	Concentration mg/l ³ ; or Technology Code ⁴	Concentration in mg/kg ⁵ unless noted as "mg/l TCLP" or Technology Code
U154	Methanol	Methanol	67-56-1	(WETOX or CHOXD) fb CARBN; or INCIN	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 incin	INCIN
U157	3-Methylcholanthrene	3- Methylcholanthren e	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 INCIN	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 INCIN	INCIN

		REGULATED HAZARDOU	S CONSTITUENT	WASTEWATERS	NONWASTEWATERS
Waste Code	Waste Description and Treatment/Regulatory Subcategory ¹	Common Name	CAS ² Number	Concentration mg/l ³ ; or Technology Code ⁴	Concentration in mg/kg ⁵ unless noted as "mg/l TCLP" or Technology Code
U164	Methylthiouracil	Methylthiouracil	56-04-2	(WETOX or CHOXD) fb CARBN; or INCIN	INCIN
U165	Naphthalene	Naphthalene	91-20-3	0.059	5.6
U166	1,4-Naphthoquinone	1,4- Naphthoquinon e	130-15-4	(WETOX or CHOXD) fb CARBN; or Incin	CMBST
U167	1-Naphthlyamine	1-Naphthlyamine	134-32-7	(WETOX or CHOXD) fb CARBN; or Incin	INCIN
U168	2-Naphthlyamine	2-Naphthlyamine	91-59-8	0.52	INCIN
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 INCIN	INCIN
U172	N-Nitrosodi-n-butylamine	N-Nitrosodi-n- butylamine	924-16-3	0.40	17
U173	N-Nitrosodiethanolamine	N- Nitrosodiethanola mine	1116-54-7	(WETOX or CHOXD) fb Carbn; or incin	INCIN
U174	N-Nitrosodiethylamine	N- Nitrosodiethylami ne	55-18-5	0.40	28
U176	N-Nîtroso-N-ethylurea	N-Nitroso-N- ethylurea	759-73-9	(WETOX or CHOXD) fb CARBN; or INCIN	INCIN

	F	TREATMENT STANDARDS
Z	Waste Code	Waste Description and Treatment/Regulatory Subcategory ¹
Σ	U177	N-Nitroso-N-methylurea
ğ	U178	N-Nitroso-N-methylurethane
ă	U179	N-Nitrosopiperidine
ш	U180	N-Nitrosopyrrolidine
2	U181	5-Nitro-o-toluidine
Ŧ	U182	Paraldehyde
$\tilde{\mathbf{x}}$	U183	Pentachlorobenzene
A	U184	Pentachloroethane
EPA		
S	U185	Pentachloroní trobenzene
	•••••••••••••••••••••••••••••••••••••	

REGULATED HAZARDOUS CONSTITUENT

Common Name

N-Nitroso-N-

N-Nitroso-N-

N-

N-

е

е

and

enzene

methylurethane

Nitrosopiperidine

Nitrosopyrrolidin

Pentachlorobenzen

Pentachloroethane

Pentachloroethane

; alternate⁶ standards for both wastewaters

nonwastewaters

Pentachloronitrob

5-Nitro-o-

toluidine

Paraldehyde

methylurea

CAS² Number

684-93-5

615-53-2

100-75-4

930-55-2

99-55-8

123-63-7

608-93-5

76-01-7

76-01-7

82-68-8

WASTEWATERS

Concentration

mg/l³; or Technology Code⁴

(WETOX or CHOXD)

fb CARBN; or INCIN

(WETOX or CHOXD)

fb CARBN; or INCIN

0.013

0.013

0.32

(WETOX or CHOXD)

fb CARBN; or INCIN

0.055

(WETOX or CHOXD)

fb CARBN; or INCIN

0.055

0.055

NONWASTEWATERS Concentration in mg/kg⁵ unless

noted as "mg/l TCLP" or

Technology Code

INCIN

INCIN

35

35

28

CMBST

10

INCIN

6.0

4.8

		REGULATED HAZARDOUS	CONSTITUENT	WASTEWATERS	NONWASTEWATERS
Waste Code	Waste Description and Treatment/Regulatory Subcategory ¹	Common Name	CAS ² Number	Concentration mg/l ³ ; or Technology Code ⁴	Concentration in mg/kg ⁵ unless noted as "mg/l TCLP" or Technology Code
U186	1,3-Pentadiene	1,3-Pentadiene	504-60-9	(WETOX or CHOXD) fb CARBN; or INCIN	CMBST
U187	Phenacet in	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 INCIN	CHOXD; CHRED; or INCIN
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	85-44-9	0.055	28
U191	2-Picoline	2-Picoline	109-06-8	(WETOX or CHOXD) fb CARBN; or Incin	INCIN
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 incin	INCIN
U194	n-Propylamine	n-Propylamine	107-10-8	(WETOX or CHOXD) fb CARBN; or INCIN	INCIN
U196	Pyridine	Pyridine	110-86-1	0.014	16
U197	p-Benzoquinone	p-Benzoquinone	106-51-4	(WETOX or CHOXD) fb CARBN; or INCIN	CMBST

		REGULATED HAZARDOU	S CONSTITUENT	WASTEWATERS	NONWASTEWATERS
Waste Code	Waste Description and Treatment/Regulatory Subcategory ¹	Common Name	CAS ² Number	Concentration mg/l ³ ; or Technology Code⁴	Concentration in mg/kg ⁶ unless noted as "mg/l TCLP" or Technology Code
U200	Reserpine	Reserpine	50-55-5	(WETOX or CHOXD) fb CARBN; or INCIN	INCIN
U201	Resorcinol	Resorcinol	108-46-3	(WETOX or CHOXD) fb Carbn; or Incin	CMBST
U202	Saccharin and salts	Saccharin	81-07-2	(WETOX or CHOXD) fb Carbn; or incin	INCIN
U203	Safrole	Safrole	94-59-7	0.081	22
U204	Selenium dioxide	Selenium	7782-49-2	0.82	0.16 mg/l TCLP
U205	Selenium sulfide	Selenium	7782-49-2	0.82	0.16 mg/l TCLP
U206	Streptozotocin	Streptozotocin	18883-66-4	(WETOX or CHOXD) fb CARBN; or incin	INCIN
U207	1,2,4,5-Tetrachlorobenzene	1,2,4,5- Tetrachlorobenzen e	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	Tetrachloroethyle ne	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 Incin	CMBST

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		REGULATED HAZARDOUS	CONSTITUENT	WASTEWATERS	NONWASTEWATERS
Waste Code	Waste Description and Treatment/Regulatory Subcategory ¹	Common Name	CAS ² Number	Concentration mg/l ³ ; or Technology Code ⁴	Concentration in mg/kg ⁵ unless noted as "mg/l TCLP" or Technology Code
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
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	62-5 <u>5</u> -5	(WETOX or CHOXD) fb Carbn; or incin	INCIN
U219	Thiourea	Thiourea	62-56-6	(WETOX or CHOXD) fb CARBN; or INCIN	INCIN
U220	Toluene	Toluene	108-88-3	0.080	10
U221	Toluenediamine	Toluenediamine	25376-45-8	CARBN; or INCIN	CMBST
U222	o-Toluidine hydrochloride	o-Toluidine hydrochloride	636-21-5	(WETOX or CHOXD) fb Carbn; or Incin	INCIN
U223	Toluene diisocyanate	Toluene diisocyanate	26471-62-5	CARBN; or INCIN	CMBST
U225	Bromoform (Tribromomethane)	Bromoform (Tribromomethane)	75-25-2	0.63	15
U226	1,1,1-Trichloroethane	1,1,1- Trichloroethane	71-55-6	0.054	6.0

		REGULATED HAZARDOU	S CONSTITUENT	WASTEWATERS	NONWASTEWATERS
Waste Code	Waste Description and Treatment/Regulatory Subcategory ¹	Common Name	CAS ² Number	Concentration mg/l ³ ; or Technology Code ⁴	Concentration in mg/kg ⁵ unless noted as "mg/l TCLP" or Technology Code :
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 incin	INCIN
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 CARBN; or INCIN	INCIN
U237	Uracil mustard	Uracil mustard	66-75-1	(WETOX or CHOXD) fb CARBN; or Incin	INCIN
U238	Urethane (Ethyl carbamate)	Urethane (Ethyl carbamate)	51-79-6	(WETOX or CHOXD) fb CARBN; or Incin	INCIN
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- Dichlorophenoxyac etic acid)	94-75-7	0.72	10
	2,4-D (2,4-Dichlorophenoxyacetic acid) salts and esters		. NA	(WETOX or CHOXD) fb CARBN; or INCIN	INCIN
U243	Hexachloropropylene	Hexachloropropyle ne	1888-71-7	0.035	30

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TREATMENT STANDARDS FOR HAZARDOUS WASTES

		REGULATED HAZARDOU	S CONSTITUENT	WASTEWATERS	NONWASTEWATERS
Waste Code	Waste Description and Treatment/Regulatory Subcategory ¹	Common Name	CAS ² Number	Concentration mg/l ³ ; or Technology Code⁴	Concentration in mg/kg ⁵ unless noted as "mg/l TCLP" or Technology Code
U244	Thiram	Thiram	137-26-8	(WETOX or CHOXD) fb CARBN; or Incin	INCIN
U246	Cyanogen bromide	Cyanogen bromide	506-68-3	CHOXD; WETOX; or INCIN	CHOXD; WETOX; or INCIN
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 incin	CMBST
U249	Zinc phosphide, Zn_3P_2 , when present at concentrations of 10% or less	Zinc Phosphide	1314-84-7	CHOXD; CHRED; or INCIN	CHOXD; CHRED; or INCIN
U328	o-Toluidine	o-Toluidine	95-53-4	INCIN; or CHOXD fb (BIODG or CARBN); or BIODG fb CARBN	INCIN; or Thermal Destruction
U353	p-Toluidine	p-Toluidine	106-49-0	INCIN; or CHOXD fb (BIODG or CARBN); or BIODG fb CARBN	INCIN; or Thermal Destruction
U359	2-Ethoxyethanol	2-Ethoxyethanol	110-80-5	INCIN; or CHOXD fb (BIODG or CARBN); or BIODG fb CARBN	CMBST

1 The waste descriptions provided in this table do not replace waste descriptions in Part 261. Descriptions of Treatment/Regulatory Subcategories are provided, as needed, to distinguish between applicability of different standards.

2 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.

3 Concentration standards for wastewaters are expressed in mg/l are based on analysis of composite samples.

4 All treatment standards expressed as a Technology Code or combination of Technology Codes are explained in detail in 268.42, Table 1 - Technology Codes and Descriptions of Technology-Based Standards.

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- 5 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 Part 264, Subpart 0 or Part 265, Subpart 0, 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 268.40(d). All concentration standards for nonwastewaters are based on analysis of grab samples.
- 6 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.
- 7 Both Cyanides (Total) and Cyanides (Amenable) for nonwastewaters are to be analyzed using Method 9010 or 9012, found in "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", EPA Publication SW-846, as incorporated by reference in 260.11, with a sample size of 10 grams and a distillation time of one hour and 15 minutes.

NOTE: NA means not applicable.

(Amended June 19, 1992, November 19, 1993, August 1, 1995, July 23, 1996, August 21, 1997)

Section 268.41 Treatment standards expressed as concentrations in waste extract.

For the requirements previously found in this section and for treatment standards in Table CCWE -Constituent Concentrations in Waste Extracts, refer to §268.40. (Amended July 26, 1994, August 1, 1995, July 23, 1996)

Section 268.42 Treatment standards expressed as specified technologies.

Note: For the requirements previously found in this section in Table 2 - Technology-Based Standards By Waste Code, and Table 3 - Technology - Based Standards for Specific Radioactive Hazardous Mixed Waste, refer to §268.40.

(a) The following wastes in paragraphs (a)(1) and (a)(2) of this section and in the table in \$268.40 "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 paragraphs (a)(1) and (a)(2) and Table 1 of this section.

(1) Liquid hazardous wastes containing polychlorinated biphenyls (PCBs) at concentrations greater than or equal to 50 ppm but less than 500 ppm must be incinerated in accordance with the technical requirements of 40 CFR §761.70 or burned in high efficiency boilers in accordance with the technical requirements of 40 CFR §761.60. Liquid hazardous wastes containing polychlorinated biphenyls (PCBs) at concentrations greater than or equal to 500 ppm must be incinerated in accordance with the technical requirements of 40 CFR §761.70. Thermal treatment under this section must also be in compliance with applicable regulations in Parts 264, 265, and 266.

(2) Nonliquid hazardous wastes containing halogenated organic compounds (HOCs) in total concentration greater than or equal to 1,000 mg/kg and liquid HOC-containing wastes that are prohibited under §268.32(e)(1) of this part must be incinerated in accordance with the requirements of Part 264, Subpart O, or Part 265, Subpart O. These treatment standards do not apply where the waste is subject to a Part 268, Subpart D, treatment standard for specific HOC (such as a hazardous waste chlorinated solvent for which a treatment standard is established under §268.41(a)).

(3) A mixture consisting of wastewater, the discharge of which is subject to regulation under either \$402 or \$307(b) of the Clean Water Act, and de minimis losses of materials from manufacturing operations in which these materials are used as raw materials or are produced as products in the manufacturing process, and that meet the criteria of the D001 ignitable liquids containing greater than 10% total organic constituents (TOC) subcategory, is subject to the DEACT treatment standard described in Table 1 of this section. For purposes of this paragraph, de minimis losses include those from normal material handling operations (e.g., spills from the unloading or transfer of materials from bins or other containers, leaks from pipes, valves or other devices used to transfer materials); minor leaks from process equipment, storage tanks, or containers; leaks from well-maintained pump packings and seals; sample purgings; and relief device discharges.

 Table 1 -- Technology Codes and Description of Technology-Based Standards

<u>Technology</u> 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.

Description of technology-based standards

Technology code

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.

> 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) permangantes; 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.

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

CHRED:

CHOXD:

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 Combustion in incinerators, boilers, or industrial furnaces operated in accordance with the applicable requirements of Part 264, Subpart O; Part 265, Subpart O; or Part 266, Subpart H.

 Technology
 Description of technology-based standards

 code
 Description of technology-based standards

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 40 CFR Part 264 Subpart 0 and Part 265 Subpart 0. 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 40 CFR Part 264 Subpart 0 and Part 265 Subpart 0.

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 40 CFR \$260.10.

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.

<u>Technology</u> <u>Description of technology-based standards</u>

<u>code</u>

PRECP:

Chemical precipitation of metals and other inorganics as insoluble precipitates of oxides, hydroxides, carbonates, sulfides, sulfates, chlorides, fluorides, 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 \$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).

Description of technology-based standards

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 40 CFR §260.10 (1), (6), (7), (11), and (12) under the definition of "industrial furnaces".

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

STABL:

Technology

code

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.

<u>Technology</u>

Description of technology-based standards

code 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.

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 §268.42, Table 2 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.

(b) Any person may submit an application to the Administrator demonstrating that an alternative treatment method can achieve a measure of performance equivalent to that achieved by methods specified in paragraphs (a), (c), and (d) of this section for wastes or specified in Table 1 of §268.45 for hazardous debris. The applicant must submit information demonstrating that his treatment method is in compliance with federal, state, and local requirements and is protective of human health and the environment. On the basis of such information and any other available information, the Administrator may approve the use of the alternative treatment method if he finds that the alternative treatment method provides a measure of performance equivalent to that achieved by methods specified in paragraphs (a), (c), and (d) of this section for wastes or in Table 1 of §268.45 for hazardous debris. Any approval must be stated in writing and may contain such provisions and conditions as the Administrator deems appropriate. The person to whom such approval is issued must comply with all limitations contained in such a determination.

(c) As an alternative to the otherwise applicable Subpart D treatment standards, lab packs are eligible for land disposal provided the following requirements are met:

(1) The lab packs comply with the applicable provisions of 40 CFR §§264.316 and 265.316;

(2) The lab pack does not contain any of the wastes listed in Appendix IV to Part 268;

(3) The lab packs are incinerated in accordance with the requirements of 40 CFR Part 264, Subpart O or 40 CFR Part 265, Subpart O; and

(4) 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 Subpart D of this part.

(d) Radioactive hazardous mixed wastes are subject to the treatment standards in §268.40. 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 waste code) applies. Hazardous debris containing radioactive waste is subject to the treatment standards specified in §268.45.

(Amended August 1, 1995, July 23, 1996)

Section 268.43 Treatment standards expressed as waste concentrations.

For the requirements previously found in this section and for treatment standards in Table CCW -Constituent Concentrations in Wastes, refer to §268.40. (Revised July 23, 1996)

Section 268.44 Variance from a treatment standard.

(a) Where the treatment standard is expressed as a concentration in a waste or waste extract and a waste cannot be treated to the specified level, or where the treatment technology is not appropriate to the waste, the generator or treatment facility may petition the Administrator for a variance from the treatment standard. The petitioner must demonstrate that because the physical or chemical properties of the waste differs significantly from wastes analyzed in developing the treatment standard, the waste cannot be treated to specified levels or by the specified methods.

(b) Each petition must be submitted in accordance with the procedures in §260.20.

(c) Each petition must include the following statement signed by the petitioner or an authorized representative:

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this petition and all attached documents, and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete. I am aware that these are significant penalties for submitting false information, including the possibility of fine and imprisonment.

(d) After receiving a petition for variance from a treatment standard, the Administrator may request any additional information or samples which he may require to evaluate the petition. Additional copies of the complete petition may be requested as needed to send to affected states and Regional Offices.

(e) The Administrator will give public notice in the Federal Register of the intent to approve or deny a petition and provide an opportunity for public comment. The final decision on a variance from a treatment standard will be published in the Federal Register.

(f) A generator, treatment facility, or disposal facility that is managing a waste covered by a variance from the treatment standards must comply with the waste analysis requirements for restricted wastes found under §268.7.

(g) During the petition review process, the applicant is required to comply with all restrictions on land disposal under this part once the effective date for the waste has been reached.

(h) Where the treatment standard is expressed as a concentration in a waste or waste extract and a waste generated under conditions specific to only one site cannot be treated to the specified level, or where the treatment technology is not appropriate to the waste, the generator or treatment facility may apply to the Administrator, or his delegated representative, for a site-specific variance from a treatment standard. The applicant for a site-specific variance must demonstrate that because the physical or chemical properties of the waste differs significantly from the waste analyzed in developing the treatment standard, the waste cannot be treated to specified levels or by the specified methods.

(i) Each application for a site-specific variance from a treatment standard must include the information in §260.20(b)(1)-(4);

(j) After receiving an application for a site-specific variance from a treatment standard, the Assistant Administrator, or his delegated representative, may request any additional information or samples which may be required to evaluate the application.

(k) A generator, treatment facility, or disposal facility that is managing a waste covered by a site-specific variance from a treatment standard must comply with the waste analysis requirements for restricted wastes found under §268.7.

(I) During the application review process, the applicant for a site-specific variance must comply with all restrictions on land disposal under this part once the effective date for the waste has been reached. (m)-(n) [Reserved]

(o) The following facilities are excluded from the treatment standard under §268.43(a), Table CCW, and are subject to the following constituent concentrations:

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TABLE - WASTES EXCLUDED FROM THE TREATMENT STANDARDS UNDER SECTION 268.43(a)

				Wastewaters		Nonwastewater	5
Facility name ¹ and address	Waste code	See also	Regulated hazardous constituent	Concentra- tion (mg/l)	Notes	Concentra- tion (mg/kg)	Notes
Craftsman Plating and Tinning, Corp., Chicago, IL.	F006	Table CCWE in 268.41	Cyanides (Total)	1.2	(²)	1800	(4)
			C y a n i d e s (Amenable)	.86	$(^2$ and $^3)$	30	(4)
			Cadmium	1.6		NA	
			Chromium	.32		NA	
		· .	Lead	.040		NA	
A .			Nickel	.44		NA	
Northweste rn Plating Works, Inc., Chicago, IL.	F006	Table CCWE in 268.41	Cyanides (Total)	1.2	(² and ³)	970	(4)
			C y a n i d e s (Amenable)	.86	(2)	30	(4)
			Cadmium	1.6		NA	
			Chromium	.32		NA	

...

name ¹ and address	waste code	266 9120	hazardous constituent	tion (mg/l)	MOLOS	tion (mg/kg)	NOTES
			Lead	.040		NA	-
			Nickel	.44		NA	
FOOTNO FOOTNO FOOTNO facilities FOOTNO)TE: (¹)-A facility m)TE: (²)-Cyanide Wa)TE: (³)-These facilit must also comply v)TE: (⁴)-Cyanide nor	ay certify complian stewater Standards ies must comply wi with 40 CFR §268. wastewaters are an	ce with these treatme s for F006 are based o th 0.86 mg/l for amena 7.a.4 for appropriate nalyzed using SW-846	nt standards accordir on analysis of compo- ible cyanides in the w monitoring frequency Method 9010 or 901	ng to provisions site samples. astewater exiting consistent with 2, sample size 1	in 40 CFR 268.7. g the alkaline chlorinatio the facilities' waste an 0 grams, distillation time	n system. These alysis plan. e, 1 hour and 15

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minutes.

Note: NA means Not Applicable.

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Notes

Concentra-

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Subpart D - Treatment Standards for Hazardous Debris

Section 268.45 Treatment standards for hazardous debris.

(a) Treatment standards. Hazardous debris must be treated prior to land disposal as follows unless DNREC determines under §261.3(e)(2) of these regulations that the debris is no longer contaminated with hazardous waste or the debris is treated to the waste-specific treatment standard provided in this subpart for the waste contaminating the debris:

(1) General. Hazardous debris must be treated for each "contaminant subject to treatment" defined by paragraph (b) of this section using the technology or technologies identified in Table 1 of this section.

(2) Characteristic debris. Hazardous debris that exhibits the characteristic of ignitability, corrosivity, or reactivity identified under §§ 261.21, 261.22, and 261.23 of these regulations, respectively, must be deactivated by treatment using one of the technologies identified in Table 1 of this section.

(3) Mixtures of debris types. The treatment standards of Table 1 in this section 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.

(4) Mixtures of contaminant types. Debris that is contaminated with two or more contaminants subject to treatment identified under paragraph (b) of this section must be treated for each contaminant using one or more treatment technologies identified in Table 1 of this section. If an immobilization technology is used in a treatment train, it must be the last treatment technology used.

(5) 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 section, whichever are more stringent.

(b) 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:

(1) Toxicity characteristic debris. The contaminants subject to treatment for debris that exhibits the Toxicity Characteristic (TC) by §261.24 of these regulations are those EP constituents for which the debris exhibits the TC toxicity characteristic.

(2) 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 §268.40.

(3) Cyanide reactive debris. Hazardous debris that is reactive because of cyanide must be treated for cyanide.

(c) 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 section and that does not exhibit a characteristic of hazardous waste identified under Subpart C, Part 261, of these regulations 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.

(d) Treatment residuals-(1) General requirements. Except as provided by paragraphs (d)(2) and (d)(4) of this section:

(i) 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 subpart D of this part for the waste contaminating the debris.

(2) 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 paragraph (b) of this section, must be deactivated prior to land disposal and is not subject to the waste-specific treatment standards of Subpart D of this part.

(3) Cyanide-reactive debris. Residue from the treatment of debris that is reactive because of cyanide must meet the standards for D003 under §268.43.

(4) Ignitable nonwastewater residue. Ignitable nonwastewater residue containing equal to or greater than 10% total organic carbon is subject to the technology-based standards for D001: "Ignitable Liquids based on §261.21(a)(1)" under §268.42.

(5) Residue from spalling. Layers of debris removed by spalling are hazardous debris that remain subject to the treatment standards of this section.

Table 1 Alternative Treatment Standards For Haza
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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 striking piston heads, saws, or rotating grinding wheels such that contaminated debris surface layers are removed.	Same as above	Same as above
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.	Same as above	Same as above
d. Vibratory Finishing: Process utilizing scrubbing media, flushing fluid, and oscillating energy such that hazardous contaminants or contaminated debris surface layers are removed. ⁴	Same as above	Same as above
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	Same as above	Same as above.

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 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. All Debris: Treatment to a clean debris surface³; 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 §268.42(b);⁸ debris surfaces must be in contact with water solution for at least 15 minutes

Same as above

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.

For refining furnaces, treated debris must be separated from treatment residuals using simple physical or mechanical means,^b and, prior to further treatment, such residuals must meet the waste-specific treatment standards for organic compounds in the waste contaminating the debris. 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 dioxin-listed waste,⁶ an "Equivalent Technology" approval under §268.42(b) must be obtained.⁸

Brick, Cloth, Concrete, Paper, Pavement, Rock, Wood: Same as above, except that contaminant must be soluble to at least 5% by weight in the solvent.

Same as above.

Debris contaminated with a dioxin-listed waste:⁵ Obtain an "Equivalent Technology" approval under §268.42(b).⁸ 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

B. Destruction Technologies:

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

2. Chemical Destruction

a. Chemical Oxidation: Chemical or electolytic 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.

All Debris: Obtain an "Equivalent Technology" approval under §268. 42(b);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 wastespecific 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

All Debris: Obtain an "Equivalent Technology" approval under §268. 42(b);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 wastespecific 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 (1/2inch) in one dimension (i.e., thickness limit),⁶ except that this thickness limit may be waived under the "Equivalent Technology" approval

All Debris: Obtain an "Equivalent Technology" approval under §268. 42(b);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 wastespecific 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: Metals other than mercury.

All Debris: Metal contaminants.

All Debris: Metal contaminants.

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 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 Subpart O of Parts 264 or 265 of these regulations; a boiler or industrial furnace operating in accordance with Subpart H of Part 266 of these regulations, or other thermal treatment unit operated in accordance with Subpart X, Part 264 of these regulations, or Subpart P, Part 265 of these regulations, but excluding for purposes of these debris treatment standards Thermal 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 Same as above

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

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.

Same as above.

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 §268.42(b),⁸ except that this requirement does not apply to vitrification.

None.
3. Sealing: Application of an appropriate material which adheres tightly to the debris 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 Sealing must avoid exposure of the debris surface to potential leaching media and 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).

None.

FOOTNOTE: ¹Hazardous 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: ²Contaminant 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: ³uClean debris surface¹ 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: ⁴Acids, 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: ⁵If 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 wastespecific 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: ⁶Dioxin-listed wastes are DNREC Hazardous Waste numbers FO20, FO21, FO22, FO23, FO26, and FO27. FOOTNOTE: ⁷Thermal 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: ⁸The demonstration "Equivalent Technology" under §268.42(b) 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: ⁹Any 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.

(Amended August 1, 1995, July 23, 1996)

Section 268.46 Alternative treatment standards based on HTMR.

For the treatment standards previously found in this section, refer to §268.40. Table 1 identifies alternative treatment standards for F006 and K062 nonwastewaters.

	Table 1.	- Alternative Treatme	nt Standards	
Waste code	See also	Regulated hazardous constituent	CAS No. for regulated hazardous constituent	Nonwastewaters concentration (mg/1) TCLP
F006	Table CCWE in 268.41 and Table CCW in 268.43	Antimony	7440-36-0	2.1
		Arsenic	7440-38-2	0.055
		Barium	7440-39-3	7.6
		Beryllium	7440-41-7	0.014
		Cadmium	7440-43-9	0.19
		Chromium (total)	7440-47-32	0.33
		Cyanide (mg/kg) (total)	57-12-5	1.8
		Lead	7439-92-1	0.37
		Mercury	7439-97-6	0.009
		Nickel	7440-02-0	5.0
		Selenium	7782-49-2	0.16
		Silver	7440-22-4	0.30
		Thallium		0.078
		Zinc	7440-66-6	5.3
K062	Table CCWE in 268.41 and Table CCW in 268.43	Antimony	7440-36-0	2.1
		Arsenic	7440-38-2	0.055
		Barium	7440-39-3	7.6
		Beryllium	7440-41-7	0.014
		Cadinium	7440-43-9	0.19
		Chromium (total)	7440-47-32	0.33
		Lean	7439-92-1	0.37
		Mercury	7439-97-6	0.009
		Nickel	7440-02-0	5.0
		Selenium	7782-49-2	0.16
		Silver	7440-22-4	0.30
		Thallium		0.078
		Zinc	7440-66-6	5.3

(Amended August 1, 1995, July 23, 1996)

Section 268.48 Universal Treatment Standards

(a) 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 §268.2(i), 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.

§268.48 Table UTS - Universal Treatment Standards			
Regulated constituent-common name	CAS' No.	Wastewater standard. Concentration in mg/ ²	Nonwastewater standard. Concentration in mg/kg ³ unless noted as "mg/l TCLP"
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	1.8
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
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
<pre>Benzo(b)fluoranthene (difficult to distinguish from benzo(k)fluoranthene)</pre>	205-99-2	0.11	6.8
<pre>Benzo(k)fluoranthene (difficult to distinguish from benzo(b)fluoranthene)</pre>	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
Methyl bromide (Bromomethane)	74-83-9	0.11	15

Regulated constituent-common name	CAS ¹ No.	Wastewater standard. Concentration in mg/ ²	Nonwastewater standard. Concentration in mg/kg ³ unless noted as "mg/l TCLP"
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
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	108-60-1	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
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
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-Dichlorophenoxyacetic 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

Regulated constituent-common name	CAS' No.	Wastewater standard. Concentration in mg/ ²	Nonwastewater standard. Concentration in mg/kg ³ unless noted as "mg/l TCLP"
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
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
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
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
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
p-Dimethylaminoazobenzene	60-11-7	0.13	NA '
Di-n-propylnitrosamine	621-64-7	0.40	14
1,4-Dioxane	123-91-1	NA	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

Regulated constituent-common name	CAS ¹ No.	Wastewater standard. Concentration in mg/ ²	Nonwastewater standard. Concentration in mg/kg ³ unless noted as "mg/l TCLP"
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	1-31-07-8	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
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
Iodomethane	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	0.75 mg/l 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

Regulated constituent-common name	CAS ¹ No.	Wastewater standard. Concentration in mg/ ²	Nonwastewater standard. Concentration in mg/kg ³ unless noted as "mg/l TCLP"
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
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
Parathion	56-38-2	0.014	4.6
Total PCBs (sum of all PCB isomers, or all Arociors)	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
Phenanthrene	85-01-8	0.059	5.6
Phenol	108-95-2	0.039	6.2
Phorate	298-02-2	0.021	4.6
Phthalic acid	100-21-0	0.055	28
Phthalic anhydride	85-44-9	0.055	28

Regulated constituent-common name	CAS ¹ No.	Wastewater standard. Concentration in mg/ ²	Nonwastewater standard. Concentration in mg/kg ³ unless noted as "mg/l TCLP"
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
2,4,5-T (2,4,5-Trichlorophenoxyacetic acid)	93-76-5	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	79-34-6	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
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
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
Antimony	7440-36-0	1.9	2.1 mg/l TCLP
Arsenic	7440-38-2	1.4	5.0 mg/l TCLP
Barium	7440-39-3	1.2	7.6 mg/l TCLP
Beryllium	7440-41-7	0.82	0.014 mg/l TCLP
Cadmi um	7440-43-9	0.69	0.19 mg/l TCLP
Chromium (Total)	7440-47-3	2.77	0.86 mg/l TCLP
Cyanides (Total) ⁴	57-12-5	1.2	590
Cyanides (Amenable) ⁴	57-12-5	0.86	30

Regulated constituent-common name	CAS ¹ No.	Wastewater standard. Concentration in mg/ ²	Nonwastewater standard. Concentration in mg/kg ³ unless noted as "mg/l TCLP"
Fluoride	16964-48-8	35	NA
Lead	7439-92-1	0.69	0.37 mg/l 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/l TCLP
Nickel	7440-02-0	3.98	5.0 mg/l TCLP
Selenium	7782-49-2	0.82	0.16 mg/l TCLP
Silver	7440-22-4	0.43	0.30 mg/l TCLP
Sulfide	8496-25-8	14	NA
Thallium	7440-28-0	1.4	0.078 mg/l TCLP
Vanadium	7440-62-2	4.3	0.23 mg/l TCLP
Zinc ⁵	7440-66-6	2.61	5.3 mg/l TCLP

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. ² Concentration standards for wastewaters are expressed in mg/l are based on analysis of composite

samples. ³ Except for Netals (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 Part 264, Subpart 0 or Part 265, Subpart 0, 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 §268.40(d). All concentration standards for nonwastewaters are based on analysis of grab samples. ⁴ Both Cyanides (Total) and Cyanides (Amenable) for nonwastewaters are to be analyzed using Method

9010 or 9012, found in "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", EPA Publication SW-846, as incorporated by reference in §260.11, with a sample size of 10 grams and a distillation time of

one hour and 15 minutes. ⁵ Vanadium and zinc are not "underlying hazardous constituents" in characteristic wastes, according to the definition at 268.2(i). Note: NA means not applicable.

(Amended July 23, 1996)

Subpart E - Prohibitions on Storage

Section 268.50 Prohibitions on storage of restricted wastes.

(a) Except as provided for in this section, the storage of hazardous wastes restricted from land disposal under Subpart C of this part, or RCRA §3004, is prohibited, unless the following conditions are met:

(1) 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 §262.34 and Parts 264 and 265 of these regulations.

(2) 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 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 §264.73 or §265.73.

(3) A transporter stores manifested shipments of such wastes at a transfer facility for 10 days or less.

(b) 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.

(c) An owner/operator of a treatment, storage or disposal facility may store such wastes beyond on 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.

(d) 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 §268.5, an approved §268.6 petition, or a national capacity variance under Subpart C), the prohibition in paragraph (a) of this section does not apply during the period of such exemption.

(e) The prohibition in paragraph (a) of this section does not apply to hazardous wastes that meet the treatment standards specified under §§268.41, 268.42, and 268.43 or the treatment standards specified under the variance in §268.44, or, where treatment standards have not been specified, is in compliance with the applicable prohibitions specified in §268.32 or RCRA §3004.

(f) 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 part within one year of the date when such wastes are first placed in storage. The provisions of paragraph (c) of this section do not apply to such PCB wastes prohibited under §268.32 of this part.

(Amended August 1, 1995)

Appendix I -- Toxicity Characteristic Leaching Procedure (TCLP)

Note: The TCLP (Method 1311) is published in "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods," EPA Publication SW-846, as incorporated by reference in §260.11 of these regulations. (Armended July 23, 1996)

Appendix II -- Treatment Standards (As Concentrations in the Treatment Residual Extract)

Note: The treatment standards for F001-F005 Spent Solvent Wastes appear in §§ 268.41, 268.42, and 268.43.

Appendix III - List of Halogenated Organic Compounds Regulated Under §268.32

In determining the concentration of HOCs in a hazardous waste for purposes of the §268.32 land disposal prohibition, EPA has defined the HOCs that must be included in the calculation as any compounds having a carbon-halogen bond which are listed in this Appendix (see §268.2). Appendix III to Part 268 consists of the following compounds:

Volatiles

EPA ARCHIVE DOCUMENT

Bromodichloromethane Bromomethane Carbon Tetrachloride Chlorobenzene 2-Chloro-1,3-butadiene Chlorodibromomethane Chloroethane 2-Chloroethyl vinyl ether Chloroform Chloromethane 3-Chloropropene 1,2-Dibromo-3-chloropropane 1,2-Dibromomethane Dibromomethane Trans-1,4-Dichloro-2-butene Dichlorodifluoromethane 1,1-Dichloroethane 1,2-Dichloroethane 1,1-Dichloroethylene Trans-1,2-Dichloroethene 1,2-Dichloropropane Trans-1,3-Dichloropropene cis-1,3-Dichloropropene lodomethane Methviene chloride 1,1,1,2-Tetrachloroethane 1,1,2,2-Tetrachloroethane Tetrachloroethene Tribromomethane 1,1,1-Trichloroethane 1,1,2-Trichloroethane Trichloroethene Trichloromonofluoromethane 1,2,3-Trichloropropane Vinyl chloride

Semivolatiles

Bis(2-chloroethoxy)ethane Bis(2-chloroethyl)ether Bis(2-chloroisopropyl) ether p-Chloroaniline Chlorobenzilate p-Chloro-m-cresol 2-Chloronaphthalene 2-Chlorophenol **3-Chloropropionitrile** m-Dichlorobenzene o-Dichlorobenzene p-Dichlorobenzene 3,3'-Dichlorobenzidine 2,4-Dichlorophenol 2,6-Dichlorophenol Hexachlorobenzene Hexachlorobutadiene Hexachlorocyclopentadiene Hexachloroethane Hexachloroprophene Hexachloropropene 4,4'-Methylenebis(2-chloroaniline) Pentachlorobenzene Pentachloroethane Pentachloronitrobenzene Pentachlorophenol Pronamide 1,2,4,5-Tetrachlorobenzene 2,3,4,6-Tetrachlorophenol 1,2,4-Trichlorobenzene 2,4,5-Trichlorophenol 2,4,6-Trichlorophenol Tris(2,3-dibromopropyl)phosphate

Organochlorine Pesticides

Aldrin alpha-BHC beta-BHC delta-BHC gamma-BHC Chlordane DDD DDE DDT Dieldrin Endosulfan I Endosulfan II Endrin Endrin aldehyde Heptachlor

EPA ARCHIVE DOCUMENT

Heptachlor epoxide Isodrin Kepone Methoxyclor Toxaphene

Phenoxyacetic Acid Herbicides

2,4-Dichlorophenoxyacetic acid Silvex 2,4,5-T

PCBs

Aroclor 1016 Aroclor 1221 Aroclor 1232 Aroclor 1242 Aroclor 1248 Aroclor 1254 Aroclor 1260 PCBs not otherwise specified

Dioxins and Furans

Hexachlorodibenzo-p-dioxins Hexachlorodibenzofuran Pentachlorodibenzo-p-dioxins Pentachlorodibenzofuran Tetrachlorodibenzo-p-dioxins Tetrachlorodibenzofuran 2,3,7,8-Tetrachlorodibenzo-p-dioxin

Appendix IV - Wastes Excluded From Lab Packs Under the Alternative Treatment Standards of §268.42

Hazardous waste with the following EPA Hazardous Waste Codes may not be placed in lab packs under the alternative lab pack treatment standards of §268.42(c): D009, F019, K003, K004, K005, K006, K062, K071, K100, K106, P010, P011, P012, P076, P078, U134, U151. (Amended July 23, 1996)

Appendix V - [Reserved]

Appendix VI - Recommended Technologies to Achieve Deactivation of Characteristics in §268.42

The treatment standard for many subcategories of D001, D002, and D003 wastes as well as for K044, K045, and K047 wastes is listed in §268.42 simply as "Deactivation to remove the characteristics of ignitability, corrosivity, and reactivity". EPA has determined that many technologies, when used alone or in combination, can achieve this standard. The following appendix presents a partial list of these technologies, utilizing the five letter technology codes established in §268.42 Table 1. 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 these alternative methods are not performed in units designated as land disposal.

Waste code/subcategory	<u>Nonwaste-</u> <u>waters</u>	<u>Wastewaters</u>
D001 Ignitable Liquids based on 261.21(a)(1) Low TOC Nonwastewater Subcategory (containing 1% to <10% TOC)	RORGS INCIN WETOX CHOXD BIODG	п.а.
D001 Ignitable Liquids based on 261.21(a)(1) Ignitable Wastewater Subcategory (containing <1% TOC)	n.a.	RORGS INCIN WETOX CHOXD BIODG
D001 Compressed Gases based on 261.21(A)(3)	RCGAS INCIN FSUBS ADGAS fb. INCIN ADGAS fb. (CHOXD; or CHRED)	n.a.
D001 Ignitable Reactives based on 261.21(a)(2)	WTRRX CHOXD CHRED STABL INCIN	n.a.
D001 Ignitable Oxidizers based on 261.21(a)(4)	CHRED INCIN	CHRED INCIN
D002 Acid Subcategory based on 261.22(a)(1) with pH less than or equal to 2	RCORR NEUTR INCIN	NEUTR INCIN
D002 Alkaline Subcategory based on 261.22(a)(1) with pH greater than or equal to 12.5 D002 Other Corrosives based on 261.22(a)(2)	NEUTR INCIN CHOXD CHRED INCIN STABL	NEUTR INCIN CHOXD CHRED INCIN

Waste code/subcategory	<u>Nonwaste-</u> <u>waters</u>	<u>Wastewaters</u>
D003 Water Reactives based on 261.23(a) (2), (3), and (4)	INCIN WTRRX CHOXD CHRED	n.a.
D003 Reactive Sulfides based on 261.23(a)(5)	CHOXD CHRED INCIN STABL	CHOXD CHRED BIODG INCIN
D003 Explosives based on 261.23(a) (6), (7), and (8)	INCIN CHOXD CHRED	INCIN CHOXD CHRED BIODG CARBN
D003 Other Reactives based on 261.23(a)(1)	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 CHOXD
K047 Pink/red water from TNT operations	CHOXD CHRED INCIN	CHRED BIODG CARBN INCIN

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

Appendix VII - Effective Dates of Surface Disposed Wastes Regulated in the LDRs

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
California list	Liquid hazardous wastes, including free liquids associated with solid or sludge, containing free cyanides at concentrations greater than or equal to 1,000 mg/l or certain metals or compounds of these metals greater than or equal to the probibition loyele	July 8, 1987.
California list	Liquid (aqueous) hazardous wastes having a pH less than	July 8, 1987.
California list	Dilute HOC wastewaters, defined as HOC-waste mixtures that are primarily water and that contain greater than or equal to 1,000 mg /l but less than 10,000 mg/l	July 8, 1987.
California list	Liquid hazardous waste containing PCBs greater than or equal to 50 ppm	July 8, 1987.
California list	Other liquid and nonliquid hazardous wastes containing HOCs in total concentration greater than or equal to 1,000 mg	Nov. 8, 1988.
D001	All	Aug. 8, 1990.
D002	All	Aug. 8, 1990.
D003	All	Aug. 8, 1990.
D004	Wastewater	Aug. 8, 1990.
D004	Nonwastewater	May 8, 1992.
D005	All	Aug. 8, 1990.
D006	All	Aug. 8, 1990.
D007	All	Aug. 8, 1990.
D008	Lead materials before secondary smelting	May 8, 1992.
D008	All others	Aug. 8, 1990.
D009	Nonwastewater	May 8, 1992.
D009	All others	Aug. 8, 1990.
D010	All	Aug. 8, 1990.
D011	All	Aug. 8, 1990.
D012	All	Aug. 8, 1990.

Waste code	Waste category	Effective date
D013	Ali	Aug. 8, 1990.
D014	All	Aug. 8, 1990.
D015	All	Aug. 8, 1990.
D016	All	Aug. 8, 1990.
D017	All	Aug. 8, 1990.
F001	Small quantity generators, CERCLA response/RCRA	Nov. 8, 1988.
	generator's solvent-water	
	mixtures, solvent-containing sludges and solids	
F001	All others	Nov. 8, 1986.
F002 (1,1,2- trichloroethane)	Wastewater and Nonwastewater	Aug. 8, 1990.
F002	Small quantity generators, CERCLA response/BCBA	Nov. 8, 1988.
	corrective action, initial	
	mixtures, solvent-containing	
	sludges and solids	
F002	All others	Nov. 8, 1986.
F003	Small quantity generators, CERCLA response/RCRA	Nov. 8, 1988.
	conective action, initial	
	mixtures solvent-containing	
	sludges and solids	
5003	All others	Nov 8 1986
F003	Small quantity generators	Nov. 8, 1988
F004	CERCLA response/RCRA corrective action, initial	1000. 0, 1300.
	generator's solvent-water mixtures, solvent-containing	
	sludges and solids	
F004	All others	Nov. 8, 1986.
F005 (benzene, 2-ethoxy	Wastewater and	Aug. 8, 1990.
ethanol, 2-nitropropane)	Nonwastewater	
F005	Small quantity generators,	Nov. 8, 1988.
	CERCLA response/RCRA	
	corrective action, initial	
	generator's solvent-water	
	mixtures, solvent-containing	
FOOF		Nov 8 1986
F006	All Ullela Wastawatar	Δια 8 1990.
F006	Nonwastewater	
F006 (cvanides)	Nonwastewater	July 8, 1989.
F007	All	July 8, 1989.
F008	All	July 8, 1989.
F009	All	July 8, 1989.
F010	All	June 8, 1989.

Waste code	Waste category	Effective date
F011 (cyanides)	Nonwastewater	Dec. 8, 1989.
F011	All others	July 8, 1989.
F012 (cyanides)	Nonwastewater	Dec. 8, 1989.
F012	All others	July 8, 1989.
F019	All	Aug. 8, 1990.
F020	All	Nov. 8, 1988.
F021	All	Nov. 8, 1988.
F022	All	Nov. 8, 1988.
F023	Ali	Nov. 8, 1988.
F024 (metals)	Wastewater	June 8, 1989.
F024 (metals)	Nonwastewater	Aug. 8, 1990.
F024 ^b	All others	June 8, 1989.
F025	All	Aug. 8, 1990.
F026	All	Nov. 8, 1988.
F027	All	Nov. 8, 1988.
F028	All	Nov. 8, 1988.
F039	Wastewater	Aug. 8, 1990.
F039	Nonwastewater	May 8, 1992.
K001 (organics) ^b	All	Aug. 8, 1988.
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.
К009	All	June 8, 1989.
K010	All	June 8, 1989.
K011	Wastewater	Aug. 8, 1990.
K011	Nonwastewater	June 8, 1989.
К013	Wastewater	Aug. 8, 1990.
K013	Nonwastewater	June 8, 1989.
K014	Wastewater	Aug. 8, 1990.
К014	Nonwastewater	June 8, 1989.
K015	Wastewater	Aug. 8, 1988.
K015	Nonwastewater	Aug. 8, 1990.
K016	All	Aug. 8, 1988.
К017	All	Aug. 8, 1990.
К018	All	Aug. 8, 1988.
K019	All	Aug. 8, 1988.
К020	All	Aug. 8, 1988.
K021	Wastewater	Aug. 8, 1990.
K021°	Nonwastewater	Aug. 8, 1988.
К022	Wastewater	Aug. 8, 1990.
K022	Nonwastewater	Aug. 8, 1988.
К023	All	June 8 1989
	s	

Waste code	Waste category	Effective date
К024	All	Aug. 8, 1988.
К025	Wastewater	Aug. 8, 1988.
K025°	Nonwastewater	•
К026	All	Aug. 8, 1990.
K027	All	June 8, 1989.
K028 (metals)	Nonwastewater	Aug. 8, 1990.
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	Ali	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.
K037 ^b	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	Ali	Aug. 8, 1990.
K042	All	Aug. 8, 1990.
K043	All	June 8, 1989.
K044°	All	Aug. 8, 1988.
K045℃	Ali	Aug. 8, 1988.
K046 (Nonreactive)	Nonwastewater	Aug. 8, 1988.
K046	All others	Aug. 8, 1990.
K047°	All	Aug. 8, 1988.
К048	Wastewater	Aug. 8, 1990.
К048	Nonwastewater	Nov. 8, 1990.
КО49	Wastewater	Aug. 8, 1990.
К049	Nonwastewater	Nov. 8, 1990.
К050	Wastewater	Aug. 8, 1990.
К050	Nonwastewater	Nov. 8, 1990.
K051	Wastewater	Aug. 8, 1990.
K051	Nonwastewater	Nov. 8, 1990.
К052	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 (low zinc) (interim	Nonwastewater	Aug. 8, 1988.
standard for high zinc remains		
in effect until August 7,		
1991).		
K062	All	Aug. 8, 1988.
K069 (Non-Calcium Sulfate) ^c	Nonwastewater	Aug. 8, 1988.
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 Wastewater Aug. 8, 1990. K084 Nonwastewater May 8, 1992. K086 All Aug. 8, 1988. K086 All others Aug. 8, 1988. K086 All others Aug. 8, 1988. K086 All June 8, 1988. K093 All June 8, 1989. K094 All June 8, 1989. K095 Wastewater Aug. 8, 1980. K096 Wastewater Aug. 8, 1980. K096 Nonwastewater June 8, 1988. K096 Nonwastewater Aug. 8, 1990. K098 All Aug. 8, 1980. K100 Wastewater Aug. 8, 1980. K101 forganics) Nonwastewater Aug. 8, 1980. K101 forganics) Nonwastewater Aug. 8, 1988. K101	Waste code	Waste category	Effective date
K073 All Aug. 8, 1990. K083 All Aug. 8, 1990. K084 Wastewater Aug. 8, 1990. K084 Nonwastewater May 8, 1992. K085 All Aug. 8, 1980. K086 All others Aug. 8, 1988. K086 All others Aug. 8, 1988. K086 All others Aug. 8, 1988. K087 All June 8, 1989. K093 All June 8, 1989. K094 All June 8, 1989. K095 Wastewater Aug. 8, 1990. K096 Wastewater Aug. 8, 1990. K096 Wastewater Aug. 8, 1980. K096 Nonwastewater Aug. 8, 1980. K097 All Aug. 8, 1980. K100 Wastewater Aug. 8, 1988. K101 (organics) Wastewater Aug. 8, 1988. K101 (organics) Wastewater Aug. 8, 1988. K101 (metals) Nonwastewater Aug. 8, 1988. K102 (organics)	K071	All	Aug. 8, 1990.
K083 All Aug. 8, 1990. K084 Wastewater Aug. 8, 1990. K084 Nonwastewater May 8, 1992. K085 All Aug. 8, 1988. K086 All others Aug. 8, 1988. K086 All others Aug. 8, 1988. K087 All Aug. 8, 1988. K086 All others Aug. 8, 1988. K093 All June 8, 1989. K095 Wastewater Aug. 8, 1989. K095 Nonwastewater June 8, 1989. K096 Nonwastewater June 8, 1989. K096 Nonwastewater Aug. 8, 1990. K096 Nonwastewater Aug. 8, 1980. K097 All Aug. 8, 1980. K096 Nonwastewater Aug. 8, 1988. K100 Wastewater Aug. 8, 1988. K101 (metals) Wastewater Aug. 8, 1988. K101 (metals) Nonwastewater Aug. 8, 1988. K102 (organics) Nonwastewater Aug. 8, 1988. K102 (K073	All	Aug. 8, 1990.
K084 Wastewater Aug. 8, 1990. K084 Nonwastewater May 8, 1992. K085 All Aug. 8, 1988. K086 Organics) ^b All Aug. 8, 1988. K086 All others Aug. 8, 1988. K086 All others Aug. 8, 1988. K093 All June 8, 1989. K094 All June 8, 1989. K095 Wastewater Aug. 8, 1980. K095 Nonwastewater June 8, 1989. K096 Nonwastewater June 8, 1989. K096 Nonwastewater June 8, 1980. K096 Nonwastewater Aug. 8, 1990. K097 All Aug. 8, 1980. K098 All Aug. 8, 1988. K100 Wastewater Aug. 8, 1988. K101 forganics) Wastewater Aug. 8, 1980. K101 (organics) Wastewater Aug. 8, 1982. K101 (organics) Wastewater Aug. 8, 1982. K102 (metals)	K083	All	Aug. 8, 1990.
K084 Nonwastewater May 8, 1992. K085 All Aug. 8, 1993. K086 (organics) ^b All Aug. 8, 1988. K086 All others Aug. 8, 1988. K087 All Aug. 8, 1988. K083 All June 8, 1988. K093 All June 8, 1983. K094 All June 8, 1989. K095 Nonwastewater Aug. 8, 1990. K096 Wastewater Aug. 8, 1990. K096 Nonwastewater Aug. 8, 1980. K096 Nonwastewater Aug. 8, 1980. K096 Nonwastewater Aug. 8, 1980. K097 All Aug. 8, 1980. K098 All Aug. 8, 1980. K100 Wastewater Aug. 8, 1988. K101 (organics) Wastewater Aug. 8, 1988. K101 (metals) Nonwastewater Aug. 8, 1982. K102 (organics) Wastewater Aug. 8, 1982. K102 (organics) Nonwastewater Aug. 8, 1982. K10	K084	Wastewater	Aug. 8, 1990.
K085 All Aug. 8, 1990. K086 (organics) ^b All Aug. 8, 1988. K086 All others Aug. 8, 1988. K087 All June 8, 1988. K093 All June 8, 1988. K093 All June 8, 1989. K095 Wastewater Aug. 8, 1980. K095 Nonwastewater June 8, 1989. K096 Wastewater Aug. 8, 1990. K096 Nonwastewater June 8, 1989. K096 Nonwastewater Aug. 8, 1990. K096 Nonwastewater Aug. 8, 1990. K096 Nonwastewater Aug. 8, 1980. K100 Wastewater Aug. 8, 1980. K101 (organics) Wastewater Aug. 8, 1988. K101 (organics) Wastewater Aug. 8, 1988. K101 (organics) Nonwastewater Aug. 8, 1988. K102 (organics) Nonwastewater Aug. 8, 1988. K102 (metals) Nonwastewater Aug. 8, 1988.	K084	Nonwastewater	May 8, 1992.
K086 (organics) ^b All Aug. 8, 1988. K086 All others Aug. 8, 1988. K087 All June 8, 1988. 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. K096 Nonwastewater Aug. 8, 1990. K097 All Aug. 8, 1989. K098 All Aug. 8, 1980. K100 Wastewater Aug. 8, 1980. K101 (organics) Wastewater Aug. 8, 1980. K101 (organics) Wastewater Aug. 8, 1980. K101 (organics) Nonwastewater Aug. 8, 1988. K102 (organics) Wastewater Aug. 8, 1988. K102 (organics) Nonwastewater Aug. 8, 1982. K102 (organics) Nonwastewater Aug. 8, 1982. </td <td>K085</td> <td>All</td> <td>Aug. 8, 1990.</td>	K085	All	Aug. 8, 1990.
K086 All others Aug. 8, 1988. K087 All Aug. 8, 1988. K083 All June 8, 1988. K094 All June 8, 1989. K095 Wastewater Aug. 8, 1980. K095 Wastewater Aug. 8, 1980. K096 Wastewater June 8, 1989. K096 Wastewater June 8, 1989. K096 Wastewater June 8, 1989. K096 Nonwastewater June 8, 1989. K096 Nonwastewater Aug. 8, 1980. K098 All Aug. 8, 1980. K099 All Aug. 8, 1988. K100 Wastewater Aug. 8, 1988. K101 (organics) Wastewater Aug. 8, 1988. K101 (metals) Nonwastewater Aug. 8, 1982. K102 (organics) Wastewater Aug. 8, 1982. K102 (organics) Nonwastewater Aug. 8, 1988. K102 (organics) Nonwastewater Aug. 8, 1982. K102 (organics) Nonwastewater Aug. 8, 1982. <td>K086 (organics)^b</td> <td>All</td> <td>Aug. 8, 1988.</td>	K086 (organics) ^b	All	Aug. 8, 1988.
K087 All Aug. 8, 1988. K093 All June 8, 1988. 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. K096 Nonwastewater June 8, 1989. K097 All Aug. 8, 1990. K098 All Aug. 8, 1990. K099 All Aug. 8, 1988. K100 Wastewater Aug. 8, 1988. K101 (organics) Wastewater Aug. 8, 1988. K101 (organics) Nonwastewater Aug. 8, 1988. K101 (metals) Nonwastewater Aug. 8, 1988. K102 (organics) Wastewater Aug. 8, 1988. K102 (metals) Nonwastewater Aug. 8, 1988. K102 (metals) Nonwastewater Aug. 8, 1988. K104 All Aug. 8, 1988. K105 All Aug. 8, 1989. <t< td=""><td>K086</td><td>All others</td><td>Aug. 8, 1988.</td></t<>	K086	All others	Aug. 8, 1988.
K093 Ail June 8, 1989. K094 All June 8, 1989. K095 Wastewater Aug. 8, 1990. K096 Nonwastewater June 8, 1989. K097 All Aug. 8, 1990. K098 All Aug. 8, 1980. K099 All Aug. 8, 1988. K100 Wastewater Aug. 8, 1988. K101 (organics) Wastewater Aug. 8, 1988. K101 (organics) Wastewater Aug. 8, 1988. K101 (metals) Nonwastewater Aug. 8, 1988. K102 (organics) Wastewater Aug. 8, 1988. K102 (organics) Nonwastewater Aug. 8, 1988. K102 (metals) Nonwastewater Aug. 8, 1988. K102 (metals) Nonwastewater Aug. 8, 1988. K104 All Aug. 8, 1982. K105 All Aug. 8, 1982. <td>K087</td> <td>All</td> <td>Aug. 8, 1988.</td>	K087	All	Aug. 8, 1988.
K094 All June 8, 1989. K095 Wastewater Aug. 8, 1980. K095 Nonwastewater June 8, 1989. K096 Nonwastewater Aug. 8, 1980. K096 Nonwastewater June 8, 1989. K096 Nonwastewater June 8, 1989. K097 All Aug. 8, 1990. K098 All Aug. 8, 1980. K099 All Aug. 8, 1988. K100 Wastewater Aug. 8, 1988. K101 (organics) Wastewater Aug. 8, 1988. K101 (organics) Wastewater Aug. 8, 1988. K101 (organics) Nonwastewater Aug. 8, 1988. K102 (organics) Wastewater Aug. 8, 1982. K102 (metals) Wastewater Aug. 8, 1988. K102 (metals) Nonwastewater Aug. 8, 1988. K102 (metals) Nonwastewater Aug. 8, 1982. K103 All Aug. 8, 1989. K104 All Aug. 8, 1989. K105 All Aug. 8, 1989.	K093	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, 1980. K090 Wastewater Aug. 8, 1980. K100 Wastewater Aug. 8, 1980. K101 (organics) Wastewater Aug. 8, 1988. K101 (organics) Wastewater Aug. 8, 1988. K101 (organics) Nonwastewater Aug. 8, 1988. K101 (organics) Nonwastewater Aug. 8, 1988. K102 (organics) Wastewater Aug. 8, 1988. K102 (organics) Nonwastewater Aug. 8, 1988. K102 (organics) Nonwastewater Aug. 8, 1988. K102 (metals) Nonwastewater Aug. 8, 1988. K104 All Aug. 8, 1988. K105 All Aug. 8, 1989. K106 Nonwastewater <t< td=""><td>K094</td><td>All</td><td>June 8, 1989.</td></t<>	K094	All	June 8, 1989.
K095 Nonwastewater June 8, 1989. K096 Wastewater Aug, 8, 1990. K096 Nonwastewater June 8, 1989. K096 Nonwastewater June 8, 1989. K097 All Aug, 8, 1990. K098 All Aug, 8, 1980. K099 All Aug, 8, 1988. K100 Wastewater Aug, 8, 1988. K101 (organics) Wastewater Aug, 8, 1988. K101 (organics) Wastewater Aug, 8, 1988. K101 (metals) Nonwastewater Aug, 8, 1988. K102 (organics) Wastewater Aug, 8, 1988. K102 (organics) Wastewater Aug, 8, 1988. K102 (metals) Nonwastewater Aug, 8, 1988. K102 (metals) Nonwastewater Aug, 8, 1988. K104 All Aug, 8, 1988. K105 All Aug, 8, 1989. K106 Nonwastewater Aug, 8, 1989. K106 Nonwastewater May 8, 1992. K106 Nonwastewater May 8, 1989	K095	Wastewater	Aug. 8, 1990.
K036 Wastewater Aug. 8, 1930. K036 Nonwastewater June 8, 1983. K037 All Aug. 8, 1990. K038 All Aug. 8, 1930. K039 All Aug. 8, 1983. K100 Wastewater Aug. 8, 1983. K100 Wastewater Aug. 8, 1983. K101 (organics) Wastewater Aug. 8, 1983. K101 (organics) Wastewater Aug. 8, 1983. K101 (organics) Nonwastewater Aug. 8, 1983. K101 (organics) Nonwastewater Mag. 8, 1983. K102 (organics) Nonwastewater Mag. 8, 1983. K102 (organics) Wastewater Aug. 8, 1983. K102 (metals) Nonwastewater Mag. 8, 1982. K103 All Aug. 8, 1983. K104 All Aug. 8, 1983. K105 All Aug. 8, 1983. K106 Nonwastewater Aug. 8, 1983. K116 All June 8, 1983. K116 All June 8, 1983. <tr< td=""><td>K095</td><td>Nonwastewater</td><td>June 8, 1989.</td></tr<>	K095	Nonwastewater	June 8, 1989.
K000 Nonwastewater June 8, 1989. K097 All Aug. 8, 1990. K098 All Aug. 8, 1990. K099 All Aug. 8, 1990. K100 Wastewater Aug. 8, 1990. K100 Wastewater Aug. 8, 1988. K101 (organics) Wastewater Aug. 8, 1988. K101 (metals) Wastewater Aug. 8, 1988. K101 (metals) Wastewater Aug. 8, 1988. K101 (metals) Nonwastewater May 8, 1992. K102 (metals) Wastewater Aug. 8, 1988. K102 (metals) Wastewater Aug. 8, 1988. K102 (metals) Wonwastewater Aug. 8, 1988. K102 (metals) Nonwastewater Aug. 8, 1988. K104 All Aug. 8, 1988. K105 All Aug. 8, 1989. K106 Wastewater Aug. 8, 1989. K106 Wastewater May 8, 1992. K113 All June 8, 1889. K114 All June 8, 1889.	K096	Wastewater	Aug. 8, 1990.
K097 Ail Aug. 8, 1990. K098 All Aug. 8, 1990. K099 All Aug. 8, 1990. K100 Wastewater Aug. 8, 1988. K100 Wastewater Aug. 8, 1988. K101 (organics) Wastewater Aug. 8, 1988. K101 (metals) Wastewater Aug. 8, 1988. K101 (metals) Nonwastewater Aug. 8, 1988. K101 (metals) Nonwastewater Aug. 8, 1988. K102 (organics) Nonwastewater Aug. 8, 1988. K102 (organics) Wastewater Aug. 8, 1988. K102 (metals) Nonwastewater Aug. 8, 1988. K102 (metals) Nonwastewater Aug. 8, 1988. K102 (metals) Nonwastewater Aug. 8, 1982. K103 All Aug. 8, 1988. K104 All Aug. 8, 1989. K105 All Aug. 8, 1992. K106 Nonwastewater Aug. 8, 1989. K106 Nonwastewater May 8, 1992. K113 All June 8, 1889	K096	Nonwastewater	June 8, 1989.
KOB All Aug. 8, 1980. KOB9 All Aug. 8, 1988. K100 Wastewater Aug. 8, 1988. K100 Wastewater Aug. 8, 1988. K101 (organics) Nonwastewater Aug. 8, 1988. K102 (organics) Nonwastewater May. 8, 1992. K102 (organics) Wastewater Aug. 8, 1988. K102 (organics) Wastewater Aug. 8, 1980. K102 (organics) Nonwastewater Aug. 8, 1980. K102 (organics) Nonwastewater May. 8, 1992. K103 All Aug. 8, 1980. K104 All Aug. 8, 1980. K105 All Aug. 8, 1982. K106 Nonwastewater Aug. 8, 1982. K106 Nonwastewater Aug. 8, 1989. K113 All June 8, 1889. K116 All June 8	K097	All	Aug. 8, 1990.
K099 All Aug. 8, 1988. K100 Wastewater Aug. 8, 1988. K100 Wastewater Aug. 8, 1988. K101 (organics) Wastewater Aug. 8, 1988. K101 (metals) Wastewater Aug. 8, 1988. K101 (metals) Wastewater Aug. 8, 1988. K101 (metals) Nonwastewater Aug. 8, 1988. K102 (organics) Wastewater Aug. 8, 1988. K102 (metals) Wastewater Aug. 8, 1988. K102 (metals) Wastewater Aug. 8, 1988. K102 (metals) Nonwastewater Aug. 8, 1988. K102 (metals) Nonwastewater May 8, 1992. K103 All Aug. 8, 1988. K104 All Aug. 8, 1988. K105 All Aug. 8, 1989. K106 Wastewater Aug. 8, 1990. K106 Nonwastewater May 8, 1992. K113 All June 8, 1989. K114 All June 8, 1989. K116 All June 8, 1989. P001 All Aug. 8, 1990. P0	K098		Aug 8 1990
Not Aug. 8, 1990. K100 Wastewater Aug. 8, 1990. K100° Nonwastewater Aug. 8, 1988. K101 (organics) Wastewater Aug. 8, 1988. K101 (metals) Wastewater Aug. 8, 1980. K101 (metals) Nonwastewater Aug. 8, 1982. K101 (metals) Nonwastewater May 8, 1992. K102 (organics) Wastewater Aug. 8, 1988. K102 (metals) Wastewater Aug. 8, 1988. K102 (metals) Nonwastewater Aug. 8, 1988. K102 (metals) Nonwastewater May 8, 1992. K103 All Aug. 8, 1988. K104 All Aug. 8, 1988. K105 All Aug. 8, 1992. K106 Wastewater Aug. 8, 1992. K113 All Aug. 8, 1989. K114 All June 8, 1989. K114 All June 8, 1989. K115 All June 8, 1989. K116 All June 8, 1989. P001	K099		Aug. 8, 1988
K100° Nonwastewater Aug. 8, 1988. K101 (organics) Wastewater Aug. 8, 1988. K101 (metals) Wastewater Aug. 8, 1988. K101 (metals) Nonwastewater Aug. 8, 1988. K101 (metals) Nonwastewater May 8, 1992. K102 (organics) Wastewater Aug. 8, 1988. K102 (organics) Wastewater Aug. 8, 1988. K102 (organics) Wastewater Aug. 8, 1988. K102 (organics) Nonwastewater Aug. 8, 1988. K102 (organics) Nonwastewater Aug. 8, 1988. K102 (organics) Nonwastewater Aug. 8, 1988. K102 (metals) Nonwastewater May 8, 1992. K103 All Aug. 8, 1988. K104 All Aug. 8, 1988. K105 All Aug. 8, 1980. K106 Wastewater May 8, 1992. K113 All June 8, 1889. K114 All June 8, 1989. K115 All June 8, 1989. K116 All June 8, 1990. P002 All Aug. 8, 1990.	K100	Wastewater	Aug 8 1990
K101 (organics) Wastewater Aug. 8, 1988. K101 (metals) Wastewater Aug. 8, 1988. K101 (organics) Nonwastewater Aug. 8, 1988. K101 (metals) Nonwastewater Aug. 8, 1988. K102 (organics) Wastewater Aug. 8, 1988. K102 (organics) Wastewater Aug. 8, 1988. K102 (metals) Wastewater Aug. 8, 1988. K102 (metals) Nonwastewater Aug. 8, 1988. K102 (metals) Nonwastewater May 8, 1992. K103 All Aug. 8, 1988. K104 All Aug. 8, 1988. K105 All Aug. 8, 1989. K106 Wastewater Aug. 8, 1990. K106 Nonwastewater May 8, 1992. K113 All June 8, 1989. K114 All June 8, 1989. K116 All June 8, 1989. P001 All Aug. 8, 1990. P002 All Aug. 8, 1990. P003 All Aug. 8, 1	K100°	Nonwastewater	Aug. 8, 1988
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K101 (organics) Nonwastewater Aug. 8, 1988. K101 (metals) Nonwastewater May 8, 1992. K102 (organics) Wastewater Aug. 8, 1988. K102 (organics) Wastewater Aug. 8, 1988. K102 (organics) Wastewater Aug. 8, 1988. K102 (organics) Nonwastewater Aug. 8, 1988. K102 (organics) Nonwastewater Aug. 8, 1988. K102 (metals) Nonwastewater May 8, 1992. 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. K113 All June 8, 1989. K114 All June 8, 1989. K116 All June 8, 1989. 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 <td< td=""><td>K101 (metals)</td><td>Wastewater</td><td>Aug 8, 1990.</td></td<>	K101 (metals)	Wastewater	Aug 8, 1990.
K101 (metals) Nonwastewater May 8, 1992. K102 (organics) Wastewater Aug. 8, 1988. K102 (metals) Wastewater Aug. 8, 1988. K102 (organics) Nonwastewater Aug. 8, 1988. K102 (metals) Nonwastewater Aug. 8, 1988. K102 (metals) Nonwastewater May 8, 1992. K103 All Aug. 8, 1988. K104 All Aug. 8, 1988. K105 All Aug. 8, 1988. K106 Vastewater Aug. 8, 1989. K106 Wastewater Aug. 8, 1990. K106 Nonwastewater May 8, 1992. K113 All June 8, 1989. K114 All June 8, 1989. K115 All June 8, 1989. K116 All June 8, 1989. 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. <td>K101 (organics)</td> <td>Nonwastewater</td> <td>Aug 8 1988</td>	K101 (organics)	Nonwastewater	Aug 8 1988
K102 (organics) Wastewater Aug. 8, 1988. K102 (metals) Wastewater Aug. 8, 1988. K102 (organics) Nonwastewater Aug. 8, 1988. K102 (metals) Nonwastewater May 8, 1992. K103 All Aug. 8, 1988. K104 All Aug. 8, 1988. K105 All Aug. 8, 1988. K106 Wastewater May 8, 1990. K106 Wastewater Aug. 8, 1989. K113 All Aug. 8, 1989. K114 All June 8, 1989. K115 All June 8, 1989. K116 All June 8, 1989. K116 All June 8, 1989. P001 All Aug. 8, 1990. P002 All Aug. 8, 1990. P003 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	K101 (metals)	Nonwastewater	May 8 1992
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K102 (intells) Norwastewater Aug. 8, 1988. K102 (organics) Nonwastewater May 8, 1992. K103 All Aug. 8, 1988. K104 All Aug. 8, 1988. K105 All Aug. 8, 1988. K106 All Aug. 8, 1990. K106 Wastewater Aug. 8, 1990. K106 Wastewater May 8, 1992. K113 All June 8, 1989. K114 All June 8, 1989. K115 All June 8, 1989. K116 All June 8, 1989. P001 All Aug. 8, 1990. P002 All Aug. 8, 1990. P003 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, 1	K102 (metals)	Wastewater	Aug 8 1990
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K102 All Aug. 8, 1988. K104 All Aug. 8, 1988. K105 All Aug. 8, 1988. K106 Wastewater Aug. 8, 1990. K106 Wastewater May 8, 1992. K113 All June 8, 1989. K114 All June 8, 1989. K115 All June 8, 1989. K116 All June 8, 1989. K116 All June 8, 1989. K116 All June 8, 1989. P001 All June 8, 1989. 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 May 8, 1992. P011 Wastewater Aug. 8, 1990. <td>K102 (metals)</td> <td>Nonwastewater</td> <td>May 8, 1992</td>	K102 (metals)	Nonwastewater	May 8, 1992
K104 All Aug. 8, 1980. K105 All Aug. 8, 1980. K106 Wastewater Aug. 8, 1990. K106 Wastewater Aug. 8, 1990. K106 Nonwastewater May 8, 1992. K113 All June 8, 1989. K114 All June 8, 1989. K115 All June 8, 1989. K116 All June 8, 1989. K116 All June 8, 1989. F001 All June 8, 1989. 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. P001 Wastewater Aug. 8, 1990. P010 Nonwastewater Aug. 8, 1990. P010 Nonwastewater Aug. 8, 1990. P011 Wastewater Aug.	K102 (incluis)		Aug 8, 1988
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K100 Wastewater Aug. 8, 1990. K106 Nonwastewater May 8, 1992. K113 All June 8, 1989. K114 All June 8, 1989. K115 All June 8, 1989. K116 All June 8, 1989. K116 All June 8, 1989. F001 All June 8, 1989. F002 All Aug. 8, 1990. F003 All Aug. 8, 1990. F004 All Aug. 8, 1990. F005 All Aug. 8, 1990. F006 All Aug. 8, 1990. F007 All Aug. 8, 1990. F006 All Aug. 8, 1990. F007 All Aug. 8, 1990. F008 All Aug. 8, 1990. F009 All Aug. 8, 1990. F010 Wastewater Aug. 8, 1990. F010 Nonwastewater May 8, 1992. F011 Wastewater Aug. 8, 1990. F011 Nonwastewater May 8, 1992. F012 Wastewater Aug. 8,	K105	All	Aug. 8, 1990.
K100 Nonwastewater May 8, 1992. K113 All June 8, 1989. K114 All June 8, 1989. K115 All June 8, 1989. K116 All June 8, 1989. K116 All June 8, 1989. K116 All June 8, 1989. P001 All June 8, 1989. 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. P009 All Aug. 8, 1990. P010 Wastewater Aug. 8, 1990. P010 Nonwastewater May 8, 1992. P011 Wastewater Aug. 8, 1990. P012 Wastewater Aug. 8, 1990.	K106	Wastewater	Aug. 8, 1990.
K113 All June 8, 1989. K114 All June 8, 1989. K115 All June 8, 1989. K116 All June 8, 1989. P001 All June 8, 1989. 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. P007 All Aug. 8, 1990. P008 All Aug. 8, 1990. P009 All Aug. 8, 1990. P010 Wastewater Aug. 8, 1990. P010 Nonwastewater May 8, 1992. P011 Nonwastewater May 8, 1992. P012 Wastewater Aug. 8, 1990.	K106	Nonwastewater	May 8, 1992.
K114 All June 8, 1989. K115 All June 8, 1989. K116 All June 8, 1989. P001 All June 8, 1989. 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. P009 All Aug. 8, 1990. P009 All Aug. 8, 1990. P010 Wastewater Aug. 8, 1990. P010 Nonwastewater May 8, 1992. P011 Wastewater Aug. 8, 1990. P011 Nonwastewater May 8, 1992. P011 Nonwastewater May 8, 1992. P012 Wastewater Aug. 8, 1990.	K113	All	June 8, 1989.
K111 All June 8, 1989. K116 All June 8, 1989. 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 May 8, 1992. P011 Wastewater Aug 8, 1990. P011 Wastewater Aug 8, 1990. P012 Wastewater Aug 8, 1992.	K114	Δ11	June 8, 1989.
K116 All June 8, 1989. 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 May 8, 1992. P011 Wastewater Aug. 8, 1990. P012 Wastewater Aug. 8, 1990.	K115		June 8, 1989.
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 May 8, 1992. P011 Wastewater Aug. 8, 1990. P012 Wastewater Aug. 8, 1990.	K116		June 8, 1989.
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 May 8, 1992. P011 Wastewater Aug. 8, 1990. P012 Wastewater Aug. 8, 1990.	P001	ΔΙΙ	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 May 8, 1992. P011 Wastewater Aug. 8, 1990. P012 Wastewater Aug. 8, 1990.	P002		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 Wastewater May 8, 1992. P011 Wastewater Aug. 8, 1990. P012 Wastewater May 8, 1992.	P003	Δ11	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 May 8, 1992. P011 Wastewater Aug. 8, 1990. P012 Wastewater Aug. 8, 1990.	P004	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 Wastewäter Aug. 8, 1990. P010 Wastewäter Aug. 8, 1990. P011 Wastewäter May 8, 1992. P011 Wastewater May 8, 1992. P011 Wastewater May 8, 1992. P012 Wastewater May 8, 1992.	P005	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 Wastewater May 8, 1992. P011 Wastewater Aug. 8, 1990. P012 Wastewater May 8, 1992.	P006	All	Aug. 8, 1990.
P008 All Aug. 8, 1990. P009 All Aug. 8, 1990. P010 Wastewater Aug. 8, 1990. P010 Wastewater May 8, 1992. P011 Wastewater Aug. 8, 1990. P011 Wastewater May 8, 1992. P011 Wastewater May 8, 1992. P012 Wastewater May 8, 1992.	P007	All	Aug. 8, 1990.
P009AllAug. 8, 1990.P010WastewaterAug. 8, 1990.P010NonwastewaterMay 8, 1992.P011WastewaterAug. 8, 1990.P012WastewaterMay 8, 1992.P013NonwastewaterMay 8, 1992.P014NonwastewaterMay 8, 1992.P015WastewaterMay 8, 1992.	P008	All	Aug. 8, 1990.
P010WastewaterAug. 8, 1990.P010NonwastewaterMay 8, 1992.P011WastewaterAug. 8, 1990.P011NonwastewaterMay 8, 1992.P012WastewaterMay 8, 1990.	P009	All	Aug. 8, 1990
P010NonwastewaterMay 8, 1992.P011WastewaterAug. 8, 1990.P011NonwastewaterMay 8, 1992.P012WastewaterAug. 8, 1990.	P010	Wastewáter	Aug. 8, 1990.
P011WastewaterAug. 8, 1990.P011NonwastewaterMay 8, 1992.P012WastewaterAug. 8, 1990.	P010	Nonwastewater	May 8, 1992.
P011NonwastewaterMay 8, 1992.P012WastewaterAug. 8, 1990.	P011	Wastewater	Aug. 8. 1990.
P012 Wastewater Aug. 8, 1990.	P011	Nonwastewater	May 8, 1992.
	P012	Wastewater	Aug. 8, 1990.

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Waste code	Waste category	Effective date
P012	Nonwastewater	May 8, 1992.
P013 (barium)	Nonwastewater	Aug. 8, 1990.
P013	All others	June 8, 1989.
P014	All	Aug. 8, 1990.
P015	All	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	Ali	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.
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.

waste code
P067
P069
P069
P070
P071
P072
P073
P074
P075
P076
P077
P078
P081
P082
P084
P085
P087
P088
P089
P092
P092
P093
P094
P095
P096
P097
P098
P099 (silver)
P099
P101
P102
P103
P104 (silver)
P104
P105
P106
P108
P109
P110
P111
P112
P113
P114
P115
P116
P118
P119
P120
P121
P122

P123

Waste sale

Waste category	Effective date
All	Aug. 8, 1990.
All	June 8, 1989.
All	Aug. 8, 1990.
All .	Aug. 8, 1990.
All	June 8, 1989.
All	Aug. 8, 1990.
All	June 8, 1989.
All	May 8, 1992.
All	Aug. 8, 1990.
All	June 8, 1989.
Wastewater	Aug. 8, 1990.
Nonwastewater	May 8, 1992.
All	Aug. 8, 1990.
All .	June 8, 1989.
All	Aug. 8, 1990.
All	Aug. 8, 1990.
All	June 8, 1989.
All	June 8, 1989.
Wastewater	Aug. 8, 1990.
All others	June 8, 1989.
All	Aug. 8, 1990.
All	Aug. 8, 1990.
All	Aug. 8, 1990.
Wastewater	Aug. 8, 1990.
All others	June 8, 1989.
All	Aug. 8, 1990.
All	June 8, 1989.
All	Aug. 8, 1990.
All	June 8, 1989.
All	Aug. 8, 1990.
All	June 8, 1989.
All	Aug. 8, 1990.
All	June 8, 1989.
	Aug. 8, 1990
	Aug. 8, 1990
* ***	

Waste code	Waste category	Effective date
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.
U022	All	Aug. 8, 1990.
U023	All	Aug. 8, 1990.
U024	All	Aug. 8, 1990.
U025	All	Aug. 8, 1990.
U026	All	Aug. 8, 1990.
U027	All	Aug. 8, 1990.
U028	All	June 8, 1989.
U029	All	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.

Waste_code	Waste_category	Effective date
U055	All	Aug. 8, 1990.
U056	All	Aug. 8, 1990.
U057	All	Aug. 8, 1990.
U058	All	June 8, 1989.
U059	All	Aug. 8, 1990.
U060	All	Aug. 8, 1990.
U061	All	Aug. 8, 1990.
U062	All	Aug. 8, 1990.
U063	All	Aug. 8, 1990.
U064	All	Aug. 8, 1990.
U066	All	Aug. 8, 1990.
U067	All	Aug. 8, 1990.
U068	All	Aug. 8, 1990.
U069	All	June 8, 1989.
U070	All	Aug. 8, 1990.
U071	All ,	Aug. 8, 1990.
U072	All	Aug. 8, 1990.
U073	All	Aug. 8, 1990.
U074	All	Aug. 8, 1990.
U075	All	Aug. 8, 1990.
U076	All	Aug. 8, 1990.
U077	All	Aug. 8, 1990.
U078	All	Aug. 8, 1990.
U079	All	Aug. 8, 1990.
U080	All	Aug. 8, 1990.
U081	All	Aug. 8, 1990.
U082	All	Aug. 8, 1990.
U083	All	Aug. 8, 1990.
U084	All	Aug. 8, 1990.
U085	All	Aug. 8, 1990.
U086	All	Aug. 8, 1990.
U087	All	June 8, 1989.
U088	All	June 8, 1989.
U089	All	Aug. 8, 1990.
U090	All	Aug. 8, 1990.
U091	All	Aug. 8, 1990.
U092	All	Aug. 8, 1990.
U093	All	Aug. 8, 1990.
U094	All	Aug. 8, 1990.
U095	All	Aug. 8, 1990.
U096	All	Aug. 8, 1990.
U097	All	Aug. 8, 1990.
U098	All	Aug. 8, 1990.
U099	All	Aug. 8, 1990.
U101	All	Aug. 8, 1990.
U102	All	June 8, 1989.
U103	All	Aug. 8, 1990.
U105	All	Aug. 8, 1990.
U106	All	Aug. 8, 1990.
U107	All	June 8, 1989.
U108	All	Aug. 8, 1990.

Waste code	Waste category	Effective_date
U109	All	Aug. 8, 1990.
U110	All	Aug. 8, 1990.
U111	All	Aug. 8, 1990.
U112	All	Aug. 8, 1990.
U113	All	Aug. 8, 1990.
U114	All	Aug. 8, 1990.
U115	All	Aug. 8, 1990.
U116	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.
U123	All	Aug. 8 1990
U124	All	Aug 8 1990
U125	All	Aug 8 1990
U126		Aug 8 1990
11127		Aug. 8, 1990
U128		Aug. 8, 1990
1129		Aug. 8, 1990
1130		Aug. 8, 1990.
		Aug. 8, 1990.
11122		Aug. 8, 1990.
		Aug. 8, 1990.
		Aug. 8, 1990.
		Aug. 6, 1990.
		Aug. 8, 1990.
	Nerwestewater	Aug. 6, 1990.
	NUTIWASLEWALE	May 8, 1992.
		Aug. 8, 1990.
0138		Aug. 8, 1990.
		Aug. 8, 1990.
0141		Aug. 8, 1990.
0142		Aug. 8, 1990.
0143	All	Aug. 8, 1990.
0144	All	Aug. 8, 1990.
0145	All	Aug. 8, 1990.
U146	All	Aug. 8, 1990.
U147	All	Aug. 8, 1990.
U148	All	Aug. 8, 1990.
U149	All	Aug. 8, 1990.
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.

Waste code	Waste category	Effective date
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.
U168	All	Aug. 8, 1990.
U169	All	Aug. 8, 1990.
U170	All	Aug. 8, 1990.
U171	All	Aug. 8, 1990.
U172	All	Aug. 8, 1990.
U173	All	Aug. 8, 1990.
U174	All	Aug. 8, 1990.
U176	All	Aug. 8, 1990.
U177	All	Aug. 8, 1990.
U178	All	Aug. 8, 1990.
U179	All	Aug. 8, 1990.
U180	All	Aug. 8, 1990.
U181	All	Aug. 8, 1990.
U182	All	Aug. 8, 1990.
U183	All	Aug. 8, 1990.
U184	All	Aug. 8, 1990.
U185	All	Aug. 8, 1990.
U186	All	Aug. 8, 1990.
U187	All	Aug. 8, 1990.
U188	All	Aug. 8, 1990.
11189		Aug 8 1990
1190		June 8 1989
11191		Δυσ 8 1990
11192		Aug. 8, 1990.
11193		Aug 8 1990
U194	All	Aug. 8, 1990.
U196	All	Aug. 8, 1990.
U197	All	Aug. 8, 1990.
11200		Aug. 8, 1990.
11201		Aug 8 1990
11202		Aug. 8, 1990
11203		Aug 8 1990
11204		Δυσ 8 1990
11205		Δυσ 8 1990
U206	All	Aug. 8 1990
U200		
11208		
11209		Aug 8 1990
11210		Δια 2 1000
11211		Δυσ 2 1000
		Δυσ 8 1000
		Aug. 0, 1990.
UZ14	All	Aug. 0, 1330.

Waste code	Waste category	Effective date
U215	All	Aug. 8, 1990.
U216	All	Aug. 8, 1990.
U217	All	Aug. 8, 1990.
U218	All	Aug. 8, 1990.
U219	All	Aug. 8, 1990.
U220	All	Aug. 8, 1990.
U221	All	June 8, 1989.
U222	All	Aug. 8, 1990.
U223	All	June 8, 1989.
U225	All	Aug. 8, 1990.
U226	All	Aug. 8, 1990.
U227	All	Aug. 8, 1990.
U228	All	Aug. 8, 1990.
U234	All	Aug. 8, 1990.
U235	All	June 8, 1989.
U236	All	Aug. 8, 1990.
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.

FOOTNOTE: "This table does not include mixed radioactive wastes (from the First, Second, and Third rules) which are receiving a national capacity variance until May 8, 1992, for all applicable treatment technologies. This table also does not include contaminated soil and debris wastes. FOOTNOTE: "The standard has been revised in the Third Third Final Rule.

FOOTNOTE: No land disposal standard has been revised in the Third Third Final Rule.

 Table 2. - Summary of Effective Dates of Land Disposal Restrictions for Contaminated Soil and Debris (CSD)

Restricted hazardous waste in CSD	Effective date
 Solvent-(F001-F005) and dioxin- (F020-F023 and F026-F028) containing soil and debris from CERCLA response of RCRA corrective actions. 	Nov. 8, 1990.
 Soil and debris not from CERCLA response or RCRA corrective actions contaminated with less than 1% total solvents (F001-F005) or dioxins (F020-F023 and F026-F028). 	Nov. 8, 1988.
 Soil and debris contaminated with California list HOCs from CERCLA response or RCRA corrective actions. 	Nov. 8, 1990.
4. Soil and debris contaminated with California list HOCs not from CERCLA response or RCRA corrective actions.	July 8, 1989.
 All soil and debris contaminated with First Third wastes for which treatment standards are based on incineration. 	Aug. 8, 1990.
 All soil and debris contaminated with Second Third wastes for which treatment standards are based on incineration. 	June 8, 1991.
7. 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 D004-D011 wastes, and all soil and debris contaminated with mixed RCRA/radioactive wastes.	May 8, 1992.
Note:	

1. Appendix VII is provided for the convenience of the reader.

2. Contaminated Soil and Debris Rule will be promulgated in the future. (Amended August 21, 1997)

Appendix VIII - National Capacity LDR Variances for UIC Wastes*

Waste code	Waste category	Effective date
F001-F005	All spent F001-F005 solvent containing less than 1 percent total F001-F005 solvent	Aug. 8, 1990.
California list	Liquid hazardous wastes, including free liquids associated with any solid or sludge, containing free cyanides at concentrations greater than or equal to 1,000	Aug. 8, 1990.
	mg/l, or containing certain metals or compounds of these metals greater than or equal to the prohibition levels	
California list	Liquid hazardous waste having a pH less than or equal to 2	Aug. 8, 1990.
California list	Hazardous wastes containing HOCs in total concentrations less than 10,000 mg/l but greater than or equal to 1,000 mg/l	Aug. 8, 1990.
D002 ^b	All	May 8, 1992.
D003 (cyanides)	All	May 8, 1992.
D003 (sulfides)	All	May 8, 1992.
D003 (explosives,	All	May 8, 1992.
reactives).		
D007	All	May 8, 1992.
D009	Nonwastewater	May 8, 1992.
F007	Ali	June 8, 1991.
F039	Wastewater	May 8, 1992.
К009	Wastewater	June 8, 1991.
K011	Nonwastewater	June 8, 1991.
K011	Wastewater	May 8, 1992.
ко13	Nonwastewater	June 8, 1991.
ко13	Wastewater	May 8, 1992.
К014	All	May 8, 1992.
K016 (dilute)	All	June 8, 1991.
К049	All	Aug. 8, 1990.
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.
K104	All	Aug. 8, 1990.

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

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

Note: This table is provided for the convenience of the reader.

Appendix IX -- Extraction Procedure (EP) Toxicity Test Method and Structural Integrity Test (Method 1310)

Note: The EP (Method 1310) is published in "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods," EPA Publication SW-846, as incorporated by reference in §260.11 of these regulations.

1.0 Scope and Application

1.1 This method is an interim method to determine whether a waste exhibits the characteristic of Extraction Procedure Toxicity.

1.2 The procedure may also be used to simulate the leaching which a waste may undergo if disposed of in a sanitary landfill. Method 1310 is applicable to liquid, solid, and multiphase samples.

2.0 Summary of Method

2.1 If a representative sample of the waste contains >0.5% solids, the solid phase of the sample is ground to pass a 9.5 mm sieve and extracted with deionized water which is maintained at a pH of 5 \pm 0.2, with acetic acid. Wastes that contain <0.5% filterable solids are, after filtering, considered to be the EP extract for this method. Monolithic wastes which can be formed into a cylinder 3.3 cm (dia) x 7.1 cm, or from which such a cylinder can be formed which is representative of the waste, may be evaluated using the Structural Integrity Procedure instead of being ground to pass a 9.5-mm sieve.

3.0 Interferences

3.1 Potential interferences that may be encountered during analysis are discussed in the individual analytical methods.

4.0 Apparatus and Materials

4.1 Extractor-For purposes of this test, an acceptable extractor is one that will impart sufficient agitation to the mixture to (1) prevent stratification of the sample and extraction fluid and (2) ensure that all sample surfaces are continuously brought into contact with well-mixed extraction fluid. Examples of suitable extractors are shown in Figures 1-3 of this method and are available from: Associated Designs & Manufacturing Co., Alexandria, Virginia; Glas-Col Apparatus Co., Terre Haute, Indiana; Millipore, Bedford, Massachusetts; and Rexnard, Milwaukee, Wisconsin.

4.2 pH meter or pH controller-Accurate to 0.05 pH units with temperature compensation.

4.3 Filter holder-Capable of supporting a 0.45- μ m filter membrane and of withstanding the pressure needed to accomplish separation. Suitable filter holders range from simple vacuum units to relatively complex systems that can exert up to 5.3 kg/cm³ (75 psi) of pressure. The type of filter holder used depends upon the properties of the mixture to be filtered. Filter holders known to EPA and DNREC and deemed suitable for use are listed in Table 1.

4.4 Filter membrane-Filter membrane suitable for conducting the required filtration shall be fabricated from a material that (1) is not physically changed by the waste material to be filtered and (2) does not absorb or leach the chemical species for which a waste's EP extract will be analyzed. Table 2 lists filter media known to EPA and DNREC to be suitable for solid waste testing.

4.4.1 In cases of doubt about physical effects on the filter, contact the filter manufacturer to determine if the membrane or the prefilter is adversely affected by the particular waste. If no information is available, submerge the filter in the waste's liquid phase. A filter that undergoes visible physical change after 48 hours (i.e., curls, dissolves, shrinks, or swells) is unsuitable for use.

4.4.2 To test for absorption or leaching by the filter:

4.4.2.1 Prepare a standard solution of the chemical species of interest.

4.4.2.2 Analyze the standard for its concentration of the chemical species.

4.4.2.3 Filter the standard and reanalyze. If the concentration of the filtrate differs from that of the original standard, then the filter membrane leaches or absorbs one or more of the chemical species and is not usable in this test method.

4.5 Structural integrity tester-A device meeting the specifications shown in Figure 4 and having a 3.18-cm (1.25-in) diameter hammer weighing 0.33 kg (0.73 lb) with a free fall of 15.24 cm (6 in) shall be used. This device is available from Associated Design and Manufacturing Company, Alexandria, VA 22314, as Part No. 125, or it may be fabricated to meet these specifications.

5.0 Reagents

5.1 Reagent grade chemicals shall be used in all tests. Unless otherwise indicated, it is intended that all reagents shall conform to the specifications of the Committee on Analytical Reagents of the American Chemical Society, where such specifications are available. Other grades may be used, provided it is first ascertained that the reagent is of sufficiently high purity to permit its use without lessening the accuracy of the determination.

5.2 Reagent water. All references to water in this method refer to reagent water, as defined in Chapter One.

5.3 Acetic acid (0.5N), CH₃COOH. This can be made by diluting concentrated glacial acetic acid (17.5N) by adding 57 ml glacial acetic acid to 1,000 ml of water and diluting to 2 liters. The glacial acetic acid must be of high purity and monitored for impurities.

5.4 Analytical standards should be prepared according to the applicable analytical methods.

6.0 Sample Collection, Preservation, and Handling

6.1 All samples must be collected using a sampling plan that addresses the considerations discussed in Chapter Nine of this manual.

6.2 Preservatives must not be added to samples.

6.3 Samples can be refrigerated if it is determined that refrigeration will not affect the integrity of the sample.

7.0 Procedure

7.1 If the waste does not contain any free liquid, go to Step 7.9. If the sample is liquid or multiphase, continue as follows. Weigh filter membrane and prefilter to \pm 0.01 g. Handle membrane and prefilters with blunt curved-tip forceps or vacuum tweezers, or by applying suction with a pipet.

7.2 Assemble filter holder, membranes, and prefilters following the manufacturer's instructions. Place the $0.45-\mu m$ membrane on the support screen and add prefilters in ascending order of pore size. Do not prewet filter membrane.

7.3 Weigh out a representative subsample of the waste (100 g minimum).

7.4 Allow slurries to stand, to permit the solid phase to settle. Wastes that settle slowly may be centrifuged prior to filtration.

7.5 Wet the filter with a small portion of the liquid phase from the waste or from the extraction mixture. Transfer the remaining material to the filter holder and apply vacuum or gentle pressure (10-15 psi) until all liquid passes through the filter. Stop filtration when air or pressurizing gas moves through the membrane. If this point is not reached under vacuum or gentle pressure, slowly increase the pressure in 10-psi increments to 75 psi. Halt filtration when liquid flow stops. This liquid will constitute part or all of the extract (refer to Step 7.16). The liquid should be refrigerated until time of analysis.

Note: Oil samples or samples containing oil are treated in exactly the same way as any other sample. The liquid portion of the sample is filtered and treated as part of the EP extract. If the liquid portion of the sample will not pass through the filter (usually the case with heavy oils or greases), it should be carried through the EP extraction as a solid.

7.6 Remove the solid phase and filter media and, while not allowing them to dry, weigh to ± 0.01 g. The wet weight of the residue is determined by calculating the weight difference between the weight of the filters (Step 7.1) and the weight of the solid phase and the filter media.

7.7 The waste will be handled differently from this point on, depending on whether it contains more or less than 0.5% solids. If the sample appears to have <0.5% solids, determine the percent solids exactly (see Note below) by the following procedure:

7.7.1 Dry the filter and residue at 80°C until two successive weighings yield the same value.

7.7.2 Calculate the percent solids, using the following equation:

weight of	tared		
filtered	-	weight of	
solid and filters	filters		
			X 100 - % solids

initial weight of waste material

Note: This procedure is used only to determine whether the solid must be extracted or whether it can be discarded unextracted. It is not used in calculating the amount of water or acid to use in the extraction step. Do not extract solid material that has been dried at 80 °C. A new sample will have to be used for extraction if a percent solids determination is performed.

7.8 If the solid constitutes <0.5% of the waste, discard the solid and proceed immediately to Step 7.17, treating the liquid phase as the extract.

7.9 The solid material obtained from Step 7.5 and all materials that do not contain free liquids shall be evaluated for particle size. If the solid material has a surface area per g of material \geq 3.1 cm² or passes through a 9.5-mm (0.375-in.) standard sieve, the operator shall proceed to Step 7.11. If the surface area is smaller or the particle size larger than specified above, the solid material shall be prepared for extraction by crushing, cutting, or grinding the material so that it passes through a 9.5-mm (0.375-in.) sieve or, if the material is in a single piece, by subjecting the material to the "Structural Integrity Procedure" described in Step 7.10.

7.10 Structural Integrity Procedure (SIP).

7.10.1 Cut a 3.3-cm diameter by 7.1-cm long cylinder from the waste material. If the waste has been treated using a fixation process, the waste may be cast in the form of a cylinder and allowed to cure for 30 days prior to testing.

7.10.2 Place waste into sample holder and assemble the tester. Raise the hammer to its maximum height and drop. Repeat 14 additional times.

7.10.3 Remove solid material from tester and scrape off any particles adhering to sample holder. Weigh the waste to the nearest 0.01 g and transfer it to the extractor.

7.11 If the sample contains >0.5% solids, use the wet weight of the solid phase (obtained in Step 7.6) to calculate the amount of liquid and acid to employ for extraction by using the following equation:

 $W = W_f - W_f$

where:

W=Wet weight in g of solid to be charged to extractor. W_f=Wet weight in g of filtered solids and filter media. W_t=Weight in g of tared filters.

If the waste does not contain any free liquids, 100 g of the material will be subjected to the extraction procedure.

7.12 Place the appropriate amount of material (refer to Step 7.11) into the extractor and add 16 times its weight with water.

7.13 After the solid material and water are placed in the extractor, the operator shall begin agitation and measure the pH of the solution in the extractor. If the pH is >5.0, the pH of the solution shall be decreased to 5.0 ± 0.2 by slowly adding 0.5N acetic acid. If the pH is ≤ 5.0 , no acetic acid should be added. The pH of the solution shall be monitored, as described below, during the course of extraction, and, if the pH rises above 5.2, 0.5N acetic acid shall be added to bring the pH down to 5.0 ± 0.2 . However, in no event shall the aggregate amount of acid added to the solution exceed 4 mL of acid per g of solid. The mixture shall be agitated for 24 hours and maintained at 20-40 °C (68-104 °F) during this time. It is recommended that the operator monitor and adjust the pH during the course of the extraction with a device such as the Type 45-A pH Controller, manufactured by Chemtrix, Inc., Hillsboro, Oregon 97123, or its equivalent, in conjunction with a metering pump and reservoir of 0.5N acetic acid. If such a system is not available, the following manual procedure shall be employed.

Note: Do not add acetic acid too quickly. Lowering the pH to below the target concentration of 5.0 could affect the metal concentrations in the leachate.

7.13.1 A pH meter shall be calibrated in accordance with the manufacturer's specifications.

7.13.2 The pH of the solution shall be checked and, if necessary, 0.5N acetic acid shall be manually added to the extractor until the pH reaches 5.0 ± 0.2 . The pH of the solution shall be adjusted at 15-, 30-, and 60-minute intervals, moving to the next longer interval if the pH does not have to be adjusted more than 0.5 pH units.

7.13.3 The adjustment procedure shall be continued for at least 6 hours.

7.13.4 If, at the end of the 24-hour extraction period, the pH of the solution is not below 5.2 and the maximum amount of acid (4 mL per g of solids) has not been added, the pH shall be adjusted to 5.0 ± 0.2 and the extraction continued for an additional 4 hours, during which the pH shall be adjusted at 1-hour intervals.

7.14 At the end of the extraction period, water shall be added to the extractor in an amount determined by the following equation:

V = (20)(W) - 16(W) - A

Where:

V = mL water to be added. W = Weight in g of solid charged to extractor. A = mL of 0.5N acetic acid added during extraction.

7.15 The material in the extractor shall be separated into its component liquid and solid phases in the following manner:

7.15.1 Allow slurries to stand to permit the solid phase to settle (wastes that are slow to settle may be centrifuged prior to filtration) and set up the filter apparatus (refer to Steps 4.3 and 4.4).

7.15.2 Wet the filter with a small portion of the liquid phase from the waste or from the extracted mixture. Transfer the remaining material to the filter holder and apply vacuum or gentle pressure (10-15 psi) until all liquid passes through the filter. Stop filtration when air or pressurized gas moves through the membrane. If this point is not reached under vacuum or gentle pressure, slowly increase the pressure in 10-psi increments to 75 psi. Halt filtration when liquid flow stops.

7.16 The liquids resulting from Steps 7.5 and 7.15 shall be combined. This combined liquid (or waste itself, if it has < 0.5% solids, as noted in Step 7.8) is the extract and shall be analyzed for the presence of any of the contaminants specified in §261.24 using the analytical procedures as designated in Step 7.17.

7.17 The extract is then prepared and analyzed using the appropriate analytical methods described in Chapters Three and Four of this manual.
Note: If the EP extract includes two phases, concentration of contaminants is determined by using a simple weighted average. For example: An EP extract contains 50 mL of oil and 1,000 mL of an aqueous phase. Contaminant concentrations are determined for each phase. The final contamination concentration is taken to be:

50 X contaminant conc. in oil

1,000 X contamination conc. of aqueous phase

1050

+

Note: In cases where a contaminant was not detected, use the MDL in the calculation. For example, if the MDL in the oily phase is 100 mg/L and 1 mg/L in the aqueous phase, the reporting limit would be 6 mg/L (rounded to the nearest mg). If the regulatory threshold is 5 mg/L, the waste may be EP toxic and results of the analysis are inconclusive.

7.18 The extract concentrations are compared with the maximum contamination limits listed in §261.24. If the extract concentrations are greater than or equal to the respective values, the waste then is considered to exhibit the characteristic of Extraction Procedure Toxicity.

8.0 Quality Control

8.1 Refer to Chapter One for specific quality control procedures.

9.0 Method Performance

9.1 The data tabulated in Table 3 were obtained from records of state and contractor laboratories and are intended to show the precision of the entire method (1301 plus analysis method).

10.0 References

1. Rohrbough, W.G.; et al. Reagent Chemicals, American Chemical Society Specifications, 7th ed.; American Chemical Society: Washington, DC 1986.

2. 1985 Annual Book of ASTM Standards, Vol. 11.01; "Standard Specification for Reagent Water"; ASTM: Philadelphia, PA, 1985; D1193-77.

3. Gaskill, A., Compilation and Evaluation of RCRA Method Performance Data, Work Assignment No. 2, EPA Contract No. 68-01-7075, September 1986.

Table 1. - EPA-Approved Filter Holders

Manufacturer	Size	Model No.	Comments
Vacuum Filters			
Gelman	47 mm	4011	
Nalgene	500 mL	44-0045	Disposable plastic unit, including prefilter, filter pads, and reservoir; can be used when solution is to be analyzed for inorganic constituents.
Nuclepore	47 mm	410400	
Millipore	47 mm	XX10 047 00	
Pressure Filters			
Nuclepore	142 mm	425900	
Micro Filtration Systems	142 mm	302300	· ·
Millipore	142 mm	YT30 142 HW	

Table 2. - EPA-Approved Filtration Media

Supplier	Filter to be used for aqueous systems	Filter to be used for organic systems		
Coarse prefilters				
Gelman	61631, 61635	61631, 61635		
Nuclepore	210907, 211707	210907, 211707		
Millipore	AP25 035 00, AP25 127 50	AP25 035 00, AP25 127 50		
Medium prefilters				
Gelman	61654, 61655			
Nuclepore	210905, 211705	210905, 211705		
Millipore	AP20 035 00, AP20 124 50 AP20 035 00, AP20 12			
Fine prefilters				
Gelman	64798, 64803	64798, 64803		
Nuclepore	210903, 211703	210903, 211703		
Millipore	AP15 035 00, AP15 124 50	AP15 035 00, AP15 124 50		
Fine filters (0.45 μ m)				
Gelman	63069, 66536	60540 or 66149, 66151		
Pall	NX04750, NX14225			
Nuclepore	142218	•142218		
Millipore	HAWP 047 00, HAWP 142 50	FHUP 047 00, FHLP 142 50		
Selas	83485-02, 83486-02	83485-02, 83486-02		

FOOTNOTE: *Susceptible to decomposition by certain polar organic solvents.

Element Sample matrix		Analysis Method	Laboratory Replicates	
Arsenic	1. Auto fluff	70601.8,1.5 μg/L		
	2. Barrel sludge	70600.9, 2.6 µg/L		
	3. Lumber	706028, 42 mg/L		
	treatment company			
	sediment			
Barium	1. Lead smelting	6010	0.12, 0.12 mg/L	
	emission control			
	dust			
	2. Auto fluff	7081	791, 780 µa/L	
	3. Barrel sludge	7081	422, 380 µg/L	
Cadmium	1. Lead smelting	3010/7130	120, 120 mg/l	
040	emission control	0010//100	120, 120	
	dust			
	2 Wastewater	3010/7130	360 290 mg/l	
	treatment sludge	3010//180	300, 200 mg/L	
	from electronisting			
	3 Auto fluff	7121	470 610 val	
	A Barrel sludge	7131		
	F Oil refinery	7121	$3.2 \pm 0.00 \mu g/L$	
	tertiary pond sludge	7131	5.2, 1.3 µg/L	
Chromium	1. Wastewater	3010/7190	1.1, 1.2 mg/L	
	treatment sludge			
	from electroplating			
	2. Paint primer	7191	61, 43 µg/L	
	3. Paint primer filter	7191	-	
	4. Lumber	7191	0.81, 0.89 mg/L	
	treatment company			
	sediment			
	5. Oil refinery	7191	-	
	tertiary pond sludge			
Mercury	1. Barrel sludge	7470	0.15, 0.09 <i>µ</i> g/L	
	2. Wastewater	7470	1.4, 0.4 μg/L	
	treatment sludge			
	from electroplating			
	3. Lead smelting	7470	0.4, 0.4 μg/L	
	emission control			
Lood		2010/7420	040 020	
Lead	emission control	3010/7420	940, 920 mg/L	
		7401	1540 1400	
		7421	1040, 1490 µg/L	
	3. Incinerator asn	7421	1000, 974 µg/L	
	4. Barrel sludge	/421	2550, 2800 µg/L	

Table 3. - Precisions of Extraction-Analysis Procedures for Several Elements

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	5. Oil refinery tertiary pond sludge	7421	31, 29 <i>µ</i> g/L
Nickel	1. Sludge	7521	2260, 1720 μg/L
	2. Wastewater treatment sludge	3010/7520	130, 140 mg/L
o :	from electroplating		
Chromium (VI)	1. Wastewater treatment sludge from electroplating	/196	18, 19 μg/L

Appendix X - Recordkeeping, Notification and/or Certification Requirements

Entity	Scenario	Frequency	Recipient of notification	Recordkeeping, notification, and/or certification requirements
I. Generator	A. Waste does not meet applicable treatment standards or exceeds applicable prohibition levels (see § 268.7(a)(1)).	Each shipment	Treatment or storage facility.	Notice must include: •Hazardous waste number. •Constituents of concern. •Treatability group. •Manifest number. •Waste analysis data (where available).
	B. Waste can be disposed of without further treatment (meets applicable treatment standards or does not exceed prohibition levels upon generation) (see § 268.7(a)(2)).	Each shipment	Land disposal facility	Notice and certification statement that waste meets applicable treatment standards or applicable prohibition levels. Notice must include: •Hazardous waste number. •Constituents of concern. •Treatability group. •Manifest number. •Waste analysis data (where available). Certification statement required under § 268. 7(a)(2)(ii) that waste complies with treatment standards and prohibitions.
	C. Waste is subject to exemption from a prohibition on the type of land disposal utilized for the waste, such as a case-by-case extension under § 268.5, an exemption under § 268.6, or a nationwide capacity variance (see § 268.7(a)(3)).	Each shipment	Receiving facility	Notice must include: •Statement that waste is not prohibited from land disposal. •Hazardous waste number. •Constituents of concern. •Treatability group. •Manifest number. •Waste analysis data (where available). •Date the waste is subject to the prohibitions.

Entity	Scenario	Frequency	Recipient of notification	Recordkeeping, notification, and/or certification requirements
	D. Waste is being accumulated in tanks or containers regulated under 262.34 and is being treated in such tanks or containers to meet applicable treatment standards (see § 268.7 (a)(4)).	Minimum of 30 days prior to treatment activity.	EPA Regional Administrator (or designated representative) or authorized State. Delivery must be verified.	Generator must develop, keep on-site, and follow a written waste analysis plan describing procedures used to comply with the treatment standards. If waste is shipped off-site, generator also must comply with notification requirement of § 268.7(a)(2).
	E. Generator is managing a lab pack containing certain wastes and wishes to use an alternative treatment standard (see § 268.7(a)(8)).	Each shipment	Treatment facility	Notice in accordance with § 268.7(a) (1), (a)(5), and (a)(6), where applicable. Certification in accordance with § 268.7(a)(8).
	F. Small quantity generators with tolling agreements (pursuant to 262.20(e)) (see §268.7(a)(9)).	Initial shipment	Treatment facility	Must comply with applicable notification and certification requirements in § 268.7(a). Generator also must retain copy of the notification and certification together with tolling agreement on-site for at least 3 years after termination or expiration of agreement.
	G. Generator has determined waste is restricted based solely on his knowledge of the waste (see § 268.7(a)(5)).	N/A	Generator's file	All supporting data must be retained on-site in generator's files.
	H. Generator has determined waste is restricted based on testing waste or an extract (see § 268.7(a)(5))	N/A	Generator's file	All waste analysis data must be retained on-site in generator's files.
	I. Generator has determined that waste is excluded from the definition of hazardous or solid waste or exempt from Subtitle C regulation (see § 268.7(a)(6)).	One-time	Generator's file	Notice of generation and subsequent exclusion from the definition of hazardous or solid waste, or exemption from Subtitle C regulation, and information regarding the disposition of the waste.

Entity	, Scenario	Frequency	Recipient of notification	Recordkeeping, notification, and/or certification requirements
	J. Generator (or treater) claims that hazardous debris is excluded from the definition of hazardous Waste under 261.3(f)(1) (see §268.7(d)).	One-time	EPA Regional Administrator or authorized State. Notification must be updated as necessary under § 268.7(d)(2).	Notice must include: •Name and address of Subtitle D facility receiving treated debris. •Hazardous waste number and description of debris as initially generated. •Technology used to treat the debris (Table 1 of § 268.45). Certification and recordkeeping in accordance with § 268.7(d)(3).
	K. Generator (or treater) claims that characteristic wastes are no longer hazardous (see § 268.9 (d)).	One-time	Generator's (or treater's) files and DNREC Notification must be updated as necessary under § 268.9(d).	Notice must include: •Name and address of Subtitle D facility receiving the waste. •Hazardous waste number and description of waste as initially generated. •Treatability group. •Underlying hazardous constituents. Certification in accordance with § 268.9(d)(2).
	L. Other recordkeeping requirements (see §268.7(a)(7)).	N/A	Generator's file	Generator must retain a copy of all notices, certifications, demonstrations, waste analysis data, and other documentation produced pursuant to § 268.7 on-site for at least 5 years from the date that the waste was last sent to on-site or off-site treatment, storage, or disposal. This period is automatically extended during enforcement actions or as requested by the Administrator.
II. Treatment Facility	A. Waste shipped from treatment facility to land disposal facility (see § 268.7(b)(4), (b)(5)).	Each shipment	Land disposal facility	Notice must include: •Hazardous waste number. •Constituents of concern. •Treatability group. •Manifest number. •Waste analysis data (where available). Application certification, in accordance with § 268.7(b)(5)(i), (ii) or (iii), stating that the waste or treatment residue has been treated in compliance with applicable treatment standards and prohibitions.
	B. Waste treatment residue from a treatment or storage facility will be further managed at a different treatment or storage facility (see § 268.7(b)(6)).	Each shipment	Receiving facility	Treatment, storage, or disposal facility must comply with all notice and certification requirements applicable to generators.

Entity	Scenario	Frequency	Recipient of notification	Recordkeeping, notification, and/or certification requirements
	C. Where wastes are recyclable materials used in a manner constituting disposal subject to § 266.20(b) (see § 268.7(b)(7)).	Each shipment	Regional Administrator (or delegated representative)	No notification to receiving facility required pursuant to § 268.7(b)(4). Certification as described in § 268.7(b)(5) and notice with information listed in § 268.7(b)(4), except manifest number. Recycling facility must keep records of the name and location of each entity receiving hazardous waste-derived products.
III. Land Disposal Facility.	A. Wastes accepted by land disposal facility (see § 268.7(c)).	N/A	N/A .	Maintain copies of notice and certifications specified in § 268.7 (a) and (b).

Certification Statements

A. 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 Part 268, Subpart D and all applicable prohibitions set forth in §268.32. 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 fine and imprisonment. (§268.7(a)(2)(ii))

B. I certify under penalty of law that I personally have examined and am familiar with the waste and that the lab pack does not contain any wastes identified at Appendix IV to Part 268. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine or imprisonment.

C. 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 that, based on my inquiry of those individuals immediately responsible for obtaining this information, I believe that the treatment process has been operated and maintained properly so as to comply with the performance levels specified in Part 268, Subpart D, and all applicable prohibitions set forth in \$268.32 without impermissible dilution of the prohibited waste. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment. (\$268.7(b)(5)(i))

D. I certify under penalty of law that the waste has been treated in accordance with the requirements of 268.42. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment. (268.7(b)(5)(ii))

E. 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 that, based on my inquiry of those individuals immediately responsible for obtaining this information, I believe that the nonwastewater organic constituents have been treated by incineration in units operated in accordance with Part 264, Subpart O or Part 265, Subpart O, or by combustion in fuel substitution units operating in accordance with applicable technical requirements, and I have been unable to detect the nonwastewater organic constituents, despite having used best good faith efforts to analyze for such constituents. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment. (§268.7(b)(5)(iii))

F. I certify under penalty of law that the waste has been treated in accordance with the requirements of §268.40 to remove the hazardous characteristic. This decharacterized waste contains underlying hazardous constituents that require further treatment to meet universal treatment standards. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment. (§268.7(b)(5)(iv))

G. I certify under penalty of law that the debris have been treated in accordance with the requirements of §268.45. I am aware that there are significant penalties for making a false certification, including the possibility of fine and imprisonment. (§268.7(d)(3)(iii)) (Amended July 23, 1996, August 21, 1997)