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## Form 2D Instructions

Form 2D must be completed in conjunction with EPA Form 3510-1 (Form 1).

This form must be completed by all applicants who checked "yes" to Item II-D in Application Form 1. However, facilities which discharge only nonprocess wastewater that is not regulated by an effluent limitations guideline or new source performance standard may use EPA Form 3510-2E (Form 2E). Educational, medical, and commercial chemical laboratories should use this form or EPA Form 3510-2C (Form 2C). To further determine if you are a new source or a new discharger, see §122.2 and §122.29. This form should not be used for discharges of stormwater runoff.

### Public Availability of Submitted Information

You may not claim as confidential any information required by this form or Form 1, whether the information is reported on the forms or in an attachment. Section 402(j) of the CWA requires that all permit applications shall be available to the public. This information will therefore be made available to the public upon request.

You may claim as confidential any information you submit to EPA which goes beyond that required by this form and Form 1. Confidentiality claims for effluent data must be denied. If you do not assert a claim of confidentiality at the time of submitting the information, EPA may make the information public without further notice. Claims of confidentiality will be handled in accordance with EPA's business confidentiality regulations in 40 CFR Part 2.

### Completeness

Your application will not be considered complete unless you answer every question on this form and on Form 1 (except as instructed below). If an item does not apply to you, enter "NA" (for "not applicable") to show that you considered the question.

### Followup Requirements

Although you are now required to submit estimated data on this form (Form 2D), please note that no later than two years after you begin discharging from the proposed facility, you must complete and submit Items V and VI of NPDES application Form 2C (EPA Form 3510-2C). However, you need not complete those portions of Item V requiring tests which you have already performed under the discharge monitoring requirements of your NPDES permit. In addition, the permitting authority may waive requirements of Items V-A and VI if the permittee makes the demonstrations required under 40 CFR §122.22(g)(7)(i)(B) and 122.21(g)(9).

### Definitions

All significant terms used in these instructions and in the form are defined in the glossary found in the General Instructions which accompany Form 1.

### Item I

You may use the map you provided for Item XI of Form 1 to determine the latitude and longitude (to the nearest 15 seconds) of each of your outfalls and the name of the receiving water. You should name all waters to which discharge is made and which flow into significant receiving waters. For example, if the discharge is made to a ditch which flows into an unnamed tributary which in turn flows into a named river, you should provide the name or description (if no name is available) of the ditch, the tributary, and the river.

### Item II

This item requires your best estimate of the date on which your facility or new outfall will begin to discharge.

### Item III-A

List all outfalls, their source (operations contributing to the flow), and estimate an average flow from each source. Briefly describe the planned treatment for these wastewaters prior to discharge. Also describe the ultimate disposal of any solid or liquid wastes not discharged. You should describe the treatment in either a narrative form or list the proper code for the treatment unit from a list provided in Table 2D-1.

### Item III-B

An example of an acceptable line drawing appears in Figure 2D-1 to these instructions. The line drawing should show the route taken by water in your proposed facility from intake to discharge. Show all sources of wastewater, including process and production areas, sanitary flows, cooling water, and storm water runoff. You may group similar operations into a single unit, labeled to correspond to the more detailed listing in Item III-A. The water balance should show estimates of anticipated average flows. Show all significant losses of water to production, atmosphere, and discharge. You should use your best estimates.

### Item III-C

Fill in every applicable column in this item for each source of intermittent or seasonal discharge. Base your answers on your best estimate. A discharge is intermittent if it occurs with interruptions during the operating hours of the facility. Discharges caused by routine maintenance shutdowns, process changes, or other similar activities are not considered to be intermittent. A discharge is seasonal if it occurs only during certain parts of the year. The reported flow rate is the highest daily value and should be measured in gallons per day. Maximum total volume means the total volume of any one discharge within 24 hours and is measured in units such as gallons.

**Item IV**

"Production" in this question refers to those goods which the proposed facility will produce, not to "waste-water" production. This information is only necessary where production-based new source performance standards (NSPS) or effluent guidelines apply to your facility. Your estimated production figures should be based on a realistic projection of actual daily production level (not design capacity) for each of the first three operating years of the facility. This estimate must be a long-term-average estimate (e.g., average production on an annual basis). If production will vary depending on long-term shifts in operating schedule or capacity, the applicant may report alternate production estimates and the basis for the alternate estimates.

If known, report quantities in the units of measurement used in the applicable NSPS or effluent guideline. For example, if the applicable NSPS is expressed as "grams of pollutant discharged per kilogram of unit production," then report maximum "Quantity Per Day" in kilograms. If you do not know whether any NSPS or effluent guideline applies to your facility, report quantities in any unit of measurement known to you. If an effluent guideline or NSPS specifies a method for estimating production, that method must be followed.

There is no need to conduct new studies to obtain these figures; only data already on hand are required. You are not required to indicate how the reported information was calculated.

**Items V-A, B, and C**

These items require you to estimate and report data on the pollutants expected to be discharged from each of your outfalls. Where there is more than one outfall, you should submit a separate Item V for each outfall. For Part C only a list is required. Sampling and analysis are not required at this time. If, however, data from such analyses are available, then those data should be reported. Each part of this item addresses a different set of pollutants or parameters and must be completed in accordance with the specific instructions for that part. The following are the general and specific instructions for Items V-A through V-C.

**Item V — General Instructions**

Each part of this item requires you to provide an estimated maximum daily and average daily value for each pollutant or parameter listed (see Table 2D-2), according to the specific instructions below. The source of the data is also required.

For Parts A through C, base your determination of whether a pollutant will be present in your discharge on your knowledge of the proposed facility's raw materials,

maintenance chemicals, intermediate and final products, byproducts, and any analyses of your effluent or of any similar effluent. You may also provide the determination and the estimates based on available in-house or contractor's engineering reports or any other studies performed on the proposed facility (see Item VI of the form). If you expect a pollutant to be present solely as a result of its presence in your intake water, please state this information on the form.

Please note that no later than 2 years after you begin discharging from the proposed facility, you must complete and submit Items V and VI of NPDES application Form 2C (followup data).

**Reporting Intake Data.** You are not required to report pollutants or parameters present in intake water unless you wish to demonstrate your eligibility for a "net" effluent limitation for these pollutants or parameters, that is, an effluent limitation adjusted to provide allowance for the pollutants or parameters present in your intake water. If you wish to obtain credits for pollutants or parameters present in your intake water, please insert a separate sheet, with a short statement of why you believe you are eligible (see §122.45 (g)), under Item VII (Other Information). You will then be contacted by the permitting authority for further instructions.

All estimated pollutant or parameter levels must be reported as concentration and as total mass, except for discharge flow, temperature, and pH. Total mass is the total weight of pollutants or parameters discharged over a day.

Use the following abbreviations for units:

Concentration		Mass	
ppm	...parts per million	lbs.	.....pounds
mg/l	...milligrams per liter	ton	.....tons (English tons)
ppb	...parts per billion	mg	.....milligrams
Ug/l	...micrograms per liter	g	.....grams
kg	.....kilograms	T	.....Tonnes (metric tons)

**Source**

In providing the estimates, use the codes in the following table to indicate the source of such information in column 4 of Parts V — A and — B.

**Code**

Engineering study	.....	1
Actual data from pilot plants	.....	1
Estimates from other engineering studies	.....	2
Data from other similar plants	.....	3
Best professional estimates	.....	4
Others	..... specify on the form	

**Item V-A**

Estimates of data on pollutants or parameters in Group A must be reported by all applicants for all outfalls; including outfalls

containing only noncontact cooling water or nonprocess wastewater.

To request a waiver from reporting any of these pollutants or parameters, the applicant must submit to the permitting authority a written request specifying which pollutants or parameters should be waived and the reasons for requesting such a waiver. This request should be submitted to the permitting authority before or with the permit application. The permitting authority may waive the requirements for information about these pollutants or parameters if he or she determines that less stringent reporting requirements are adequate to support issuance of the permit. No extensive documentation will normally be needed, but the applicant should contact the permitting authority if she or he wishes to receive instructions on what his or her particular request should contain.

#### Item V-B

Estimates of data on pollutants in Group B must be reported by all applicants for all outfalls, including outfalls containing only noncontact cooling water or nonprocess wastewater. You are merely required to report estimates for those pollutants which you know or have reason to believe will be discharged or which are limited directly by an effluent limitations guideline (or NSPS) or indirectly through promulgated limitations on an indicator pollutant. The priority pollutants in Group B are divided into the following three sections:

- 1) Metal toxic pollutants, total cyanide, and total phenols
- 2) 2,3,7,8-Tetrachlorodibenzo-P-Dioxin (TCDD) (CAS # 1764-016)
- 3) Organic Toxic Pollutants (Gas Chromatography/-Mass Spectrometry Fractions)
  - a) Volatile compounds
  - b) Acid compounds
  - c) Base/neutral compounds
  - d) Pesticides

For pollutants listed in Sections 1 and 3, you must report estimates as instructed above.

For Section 2, you are required to report that TCDD may be discharged if you will use or manufacture one of the following compounds, or if you know or have reason to believe that TCDD is or may be present in an effluent:

- A. 2,4,5-trichlorophenoxy acetic acid (2,4,5-T) (CAS # 93-765);
- B. 2-(2,4,5-trichlorophenoxy) propanoic acid (Silvex, 2,4, 5TP) (CAS # 93-72-1);
- C. 2-(2,4,5-trichlorophenoxy) ethyl 2,2-dichloropropionate (Erbon) (CAS # 136-25-4);
- D. O,O-dimethyl O-(2,4,5-trichlorophenyl) phosphorothioate (Ronnel) (CAS # 299-84-3);

- E. 2,4,5-trichlorophenol (TCP)(CAS # 95-95-4); or
- F. Hexachlorophene (HCP) (CAS # 70-30-4).

#### Small Business Exemption

If you are a "small business," you are exempt from the reporting requirement for Item V-B (section 3). You may qualify as a "small business" if you fit one of the following definitions:

- 1) Your expected gross sales will total less than \$100,000 per year for the next three years, or
- 2) in the case of coal mines, your average production will be less than 100,000 tons of coal per year.

If you are a "small business," you may submit projected sales or production figures to qualify for this exemption. The sales or production figures you submit must be for the facility which is the source of the discharge. The data should not be limited only to production or sales for the process or processes which contribute to the discharge, unless those are the only processes at your facility. For sales data, where intracorporate transfers of goods and services are involved, the transfer price per unit should approximate market prices for those goods and services as closely as possible. If necessary, you may index your sales figures to the second quarter of 1980 to demonstrate your eligibility for a small business exemption. This may be done by using the gross national product price deflator (second quarter of 1980 = 100), an index available in "National Income and Product Accounts of the United States" (Department of Commerce, Bureau of Economic Analysis).

The small business exemption applies to the GC/MS fractions (Section 3) of Item V-B only. Even if you are eligible for a small business exemption, you are still required to provide information on metals, cyanide, total phenols, and dioxin in Item V-B, as well as all of Items V-A and C.

#### Item V-C

List any pollutants in Table 2D-3 that you believe will be present in any outfalls and briefly explain why you believe they will be present. No estimate of the pollutant's quantity is required, unless you already have quantitative data.

**Note:** The discharge of pollutants listed in Table 2D-4 may subject you to the additional requirements of section 311 of the CWA (Oil and Hazardous Substance Liability). These requirements are not administered through the NPDES program. However, if you wish an exemption under 40 CFR 117.12(a)(2) from these requirements, attach additional sheets of paper to this form providing the following information:

- A. The substance and the amount of each substance which may be discharged;

- B. The origin and source of the discharge of the substance;
- C. The treatment which is to be provided for the discharge by:
  1. An onsite treatment system separate from any treatment system which will treat your normal discharge,
  2. A treatment system designed to treat your normal discharge and which is additionally capable of treating the amount of the substance identified under paragraph 1 above, or
  3. Any combination of the above.

An exemption from the section 311 reporting requirements pursuant to 40 CFR Part 117 for pollutants on Table 2D does not exempt you from the section 402 reporting requirements pursuant to 40 CFR Part 122 (Item V-C) for pollutants listed on Table 2D-3.

For further information on exclusions from Section 311, see 40 CFR Section 117.12(a)(2) and (c), or contact your EPA Regional office (Table 1 in the Form 1 instructions).

**Item VI-A**

If an engineering study was conducted, check the box labeled "report available." If no study was done, check the box labeled "no report."

**Item VI-B**

Report the name and location of any existing plant(s) which (to the best of your knowledge) resembles your planned operation with respect to items produced, production process, wastewater constituents, or wastewater treatment. No studies need be conducted to respond to this item. Only data which are already available need be submitted.

This information will be used to inform the permit writer of appropriate treatment methods and their associated permit conditions and limits.

**Item VII**

A space is provided for additional information which you believe would be useful in setting permit limits, such as additional sampling. Any response is optional.

**Item VIII**

The Clean Water Act provides for severe penalties for submitting false information on this application form.

Section 309(c)(2) of the Clean Water Act provides that "Any person who knowingly makes any false statement, representation, or certification in any application, . . . shall upon conviction, be punished by a fine of no more than \$10,000 or by imprisonment for not more than six months, or both."

**40 CFR Part 122.22 Requires the Certification To Be Signed as Follows:**

- A. For a corporation: by a responsible corporate officer.
 

A responsible corporate officer means (i) a president, secretary, treasurer, or vice-president of the corporation in charge of a principal business function, or any other person who performs similar policy or decision-making functions for the corporation, or (ii) the manager of one or more manufacturing, production or operating facilities employing more than 250 persons or having gross annual sales or expenditures exceeding \$25,000,000 (in second-quarter 1980 dollars), if authority to sign documents has been assigned or delegated to the manager in accordance with corporate procedures.
- B. For a partnership or sole proprietorship: by a general partner or the proprietor, respectively; or
- C. For a municipality, State, Federal, or other public agency: by either a principal executive officer or ranking elected official. For purposes of this section, a principal executive officer of a Federal agency includes (i) the chief executive officer of the agency, or (ii) a senior executive officer having responsibility for the overall operations of a principal geographic unit of the agency (e.g., Regional Administrators of EPA).

## PHYSICAL TREATMENT PROCESSES

1—A	Ammonia Stripping	1—M	Grit Removal
1—B	Dialysis	1—N	Microstraining
1—C	Diatomaceous Earth Filtration	1—O	Mixing
1—D	Distillation	1—P	Moving Bed Filters
1—E	Electrodialysis	1—Q	Multimedia Filtration
1—F	Evaporation	1—R	Rapid Sand Filtration
1—G	Flocculation	1—S	Reverse Osmosis ( <i>Hyperfiltration</i> )
1—H	Flotation	1—T	Screening
1—I	Foam Fractionation	1—U	Sedimentation ( <i>Settling</i> )
1—J	Freezing	1—V	Slow Sand Filtration
1—K	Gas-Phase Separation	1—W	Solvent Extraction
1—L	Grinding ( <i>Comminutors</i> )	1—X	Sorption

## CHEMICAL TREATMENT PROCESSES

2—A	Carbon Adsorption	2—G	Disinfection ( <i>Ozone</i> )
2—B	Chemical Oxidation	2—H	Disinfection ( <i>Other</i> )
2—C	Chemical Precipitation	2—I	Electrochemical Treatment
2—D	Coagulation	2—J	Ion Exchange
2—E	Dechlorination	2—K	Neutralization
2—F	Disinfection ( <i>Chlorine</i> )	2—L	Reduction

## BIOLOGICAL TREATMENT PROCESSES

3—A	Activated Sludge	3—E	Preaeration
3—B	Aerated Lagoons	3—F	Spray Irrigation/Land Application
3—C	Anaerobic Treatment	3—G	Stabilization Ponds
3—D	Nitrification-Denitrification	3—H	Trickling Filtration

## OTHER PROCESSES

4—A	Discharge to Surface Water	4—C	Reuse/Recycle of Treated Effluent
4—B	Ocean Discharge Through Outfall	4—D	Underground Injection

## SLUDGE TREATMENT AND DISPOSAL PROCESSES

5—A	Aerobic Digestion	5—M	Heat Drying
5—B	Anaerobic Digestion	5—N	Heat Treatment
5—C	Belt Filtration	5—O	Incineration
5—D	Centrifugation	5—P	Land Application
5—E	Chemical Conditioning	5—Q	Landfill
5—F	Chlorine Treatment	5—R	Pressure Filtration
5—G	Composting	5—S	Pyrolysis
5—H	Drying Beds	5—T	Sludge Lagoons
5—I	Elutriation	5—U	Vacuum Filtration
5—J	Flotation Thickening	5—V	Vibration
5—K	Freezing	5—W	Wet Oxidation
5—L	Gravity Thickening		

Table 2D-1

## GROUP A

Biochemical Oxygen Demand (BOD)  
Chemical Oxygen Demand (COD)  
Total Organic Carbon (TOC)  
Total Suspended Solids (TSS)  
Flow

Ammonia (as N)  
Temperature (winter)  
Temperature (summer)  
pH

## GROUP B

Bromide  
Total Residual Chlorine  
Color  
Fecal Coliform  
Fluoride  
Nitrate-Nitrite (as N)  
Oil and Grease  
Phosphorus (as P) Total  
Radioactivity  
(1) Alpha, Total  
(2) Beta, Total  
(3) Radium, Total  
(4) Radium 226, Total

Sulfate (as SO<sub>4</sub>)  
Sulfide (as S)  
Sulfite (as SO<sub>3</sub>)  
Surfactants  
Aluminum, Total  
Barium, Total  
Boron, Total  
Cobalt, Total  
Iron, Total  
Magnesium, Total  
Molybdenum, Total  
Manganese, Total  
Tin, Total  
Titanium, Total

### Section 1

Antimony, Total  
Beryllium, Total  
Chromium, Total  
Lead, Total  
Nickel, Total  
Silver, Total  
Zinc, Total  
Phenols, Total

Arsenic, Total  
Cadmium, Total  
Copper, Total  
Mercury, Total  
Selenium, Total  
Thallium, Total  
Cyanide, Total

### Section 2

2,3,7,8-Tetrachlorodibenzo-P-Dioxin

### Section 3

## GC/MS FRACTION\* — VOLATILE COMPOUNDS

Acrolein  
Benzene  
Carbon Tetrachloride  
Chlorodibromomethane  
2-Chloroethylvinyl Ether  
Dichlorobromomethane  
1,2-Dichloroethane  
1,2-Dichloropropane  
Ethylbenzene  
Methyl Chloride  
1,1,2,2-Tetrachloroethane  
Toluene  
1,1,1-Trichloroethane  
Trichloroethylene

Vinyl Chloride  
Acrylonitrile  
Bromoform  
Chlorobenzene  
Chloroethane  
Chloroform  
1,1-Dichloroethane  
1,1-Dichloroethane  
1,3-Dichloropropylene  
Methyl Bromide  
Methylene chloroethane  
Tetrachloroethylene  
1,2-Trans-Dichloroethylene  
1,1,2-Trichloroethane

Table 2D-2



## GS/MS FRACTION — ACID COMPOUNDS

2-Chlorophenol  
2,4-Dimethylphenol  
2,4-Dinitro-phenol  
4-Nitrophenol  
Pentachlorophenol  
2,4,6-Trichlorophenol

2,4-Dichlorophenol  
4,6-Dinitro-O-Cresol  
2-Nitrophenol  
P-Chloro-M-Cresol  
Phenol

## GC/MS FRACTION — BASE/NEUTRAL COMPOUNDS

Acenaphthene  
Anthracene  
Benzo (a) Anthracene  
3,5-Benzofluoranthene  
Benzo (k) Fluoranthene  
Bis (2-Chloroethyl) Ether Bis  
Bis (2-Ethylhexyl) Phthalate  
Butyl Benzyl Phthalate  
4-Chlorophenyl Phenyl Ether  
Dibenzo (a, h) Anthracene  
1,3-Dichlorobenzene  
3,3-Dichlorobenzidine  
Dimethyl Phthalate  
2,4-Dinitrotoluene  
Di-N-Octyl Phthalate  
Fluoranthene  
Hexachlorobenzene  
Hexachlorocyclopentadiene  
Indeno (1,2,3-cd) Pyrene  
Naphthalene  
N-Nitro-sodimethylamine  
N-Nitro-sodiphenylamine  
Pyrene

Acenaphthylene  
Benzidine  
Benzo (a) Pyrene  
Benzo (ghi) Perylene  
Bis (2 Chloroethoxy) Methane  
(2-Chloroisopropyl) Ether  
4-Bromophenyl Phenyl Ether  
2-Chloronaphthalene  
Chrysene  
1,2-Dichlorobenzene  
1,4-Dichlorobenzene  
Diethyl Phthalate  
Di-N-Butyl Phthalate  
2,6-Dinitrotoluene  
1,2, Diphenylhydrazine (as Azobenzen)  
Fluorene  
Hexachlorobutadiene  
Hexachloroethane  
Isophorone  
Nitrobenzene  
N-Nitrosodi-N-Propylamine  
Phenanthrene  
1,2,4-Trichlorobenzene

## GC/MS FRACTION — PESTICIDES

Aldrin  
Alpha-BHC  
Beta-BHC  
4,4' DDT  
4,4'-DDD  
Alpha-Endosulfan  
Endosulfan Sulfate  
Endrin Aldehyde  
Heptachlor Epoxide  
PCB-1254  
PCB-1232  
PCB-1260  
Toxaphene

Gamma-BHC  
Delta-BHC  
Chlordane  
4,4' DDE  
Dieldrin  
Beta-Endosulfan  
Endrin  
Heptachlor  
PCB-1242  
PCB-1221  
PCB-1248  
PCB-1016

\*fractions defined in 40 CFR Part 136

Table 2D-2

**TOXIC POLLUTANTS AND HAZARDOUS SUBSTANCES  
REQUIRED TO BE IDENTIFIED BY APPLICANTS IF EXPECTED  
TO BE PRESENT**

**TOXIC POLLUTANT**

Asbestos

**HAZARDOUS SUBSTANCES**

Acetaldehyde  
 Allyl alcohol  
 Allyl chloride  
 Amyl acetate  
 Aniline  
 Benzotrile  
 Benzyl chloride  
 Butyl acetate  
 Butylamine  
 Captan  
 Carbaryl  
 Carbofuran  
 Carbon disulfide  
 Chlorpyrifos  
 Coumpahos  
 Cresol  
 Crotonaldehyde  
 Cyclohexane  
 2,4-D (2,4-Dichlorophinoxyacetic acid)  
 Diazinon  
 Dicamba  
 Dichlobenil  
 Dichlone  
 2,2 Dichloropropionic acid  
 Dichlorvos  
 Diethyl amine  
 Dimethyl amine  
 Dintrobenzene  
 • Diquat  
 Disulfoton  
 Diuron  
 Epichlorohydrin  
 Ethion  
 Ethylene diamine  
 Formaldehyde  
 Furfural  
 Guthion  
 Isoprene  
 Isopropanolamine dodecylbenzenesulfonate  
 Kelthane  
 Kepone  
 Malathion  
 Mercaptodimethur  
 Methoxychlor

**HAZARDOUS SUBSTANCES**

Methyl mercaptan  
 Methyl methacrylate  
 Methyl parathion  
 Mevinphos  
 Mexacarbate  
 Monoethyl amine  
 Monomethyl amine  
 Naled  
 Naphthenic acid  
 Nitrotoluene  
 Parathion  
 Phenolsulfonate  
 Phosgene  
 Propargite  
 Propylene oxide  
 Pyrethrins  
 Quinoline  
 Resorcinol  
 Strontium  
 Strychnine  
 2,4,5-T (2,4,5-Trichlorophenoxyacetic acid)  
 TDE (Tetrochlorodiphenyl ethane)  
 2,4,5-TP [2-(2,4,5-Trichlorophenoxy) propanic acid]  
 Trichlorofon  
 Triethanolamine dodecylbenzenesulfonate  
 Triethylamine  
 Uranium  
 Vanadium  
 Vinyl acetate  
 Xylene  
 Xylenol  
 Zirconium

## HAZARDOUS SUBSTANCES

Acetaldehyde	Butylamine	Dichlorvos
Acetic acid	Butyric acid	Dieldrin
Acetic anhydride	Cadmium acetate	Diethylamine
Acetone cyanohydrin	Cadmium bromide	Dimethylamine
Acetyl bromide	Cadmium chloride	Dinitrobenzene
Acetyl chloride	Calcium arsenate	Dinitrophenol
Acrolein	Calcium arsenite	Dinitrotoluene
Acrylonitrile	Calcium carbide	Diquat
Adipic acid	Calcium chromate	Disulfoton
Aldrin	Calcium cyanide	Diuron
Allyl alcohol	Calcium dodecylbenzenesulfonate	Dodecylbenzenesulfonic acid
Allyl chloride	Calcium hypochlorite	Endosulfan
Aluminum sulfate	Captan	Endrin
Ammonia	Carbaryl	Epichlorohydrin
Ammonium acetate	Carbofuran	Ethion
Ammonium benzoate	Carbon disulfide	Ethylbenzene
Ammonium bicarbonate	Carbon tetrachloride	Ethylenediamine
Ammonium bichromate	Chlordane	Ethylene dibromide
Ammonium bifluoride	Chlorine	Ethylene dichloride
Ammonium bisulfite	Chlorobenzene	Ethylene diaminetetracetic acid (EDTA)
Ammonium carbamate	Chloroform	Ferric ammonium citrate
Ammonium carbonate	Chloropyrifos	Ferric ammonium exalate
Ammonium chloride	Chlorosulfonic acid	Ferric chloride
Ammonium chromate	Chromic acetate	Ferric fluoride
Ammonium citrate	Chromic acid	Ferric nitrate
Ammonium flourborate	Chromic sulfate	Ferric sulfate
Ammonium fluoride	Chromous chloride	Ferrous chloride
Ammonium hydroxide	Cobaltous bromide	Ferrous sulfate
Ammonium oxalate	Cobaltous formate	Formaldehyde
Ammonium silicofluoride	Cobaltous sulfamate	Formic acid
Ammonium sulfamate	Coumaphos	Fumaric acid
Ammonium sulfide	Cresol	Furfural
Ammonium sulfite	Crotonaldehyde	Guthion
Ammonium tartrate	Cupric acetate	Heptachlor
Ammonium thiocyanate	Cupric acetoarsenite	Hexachlorocyclopentadiene
Ammonium thiosulfate	Cupric chloride	Hydrochloric acid
Amyl acetate	Cupric nitrate	Hydrofluoric acid
Aniline	Cupric oxalate	Hydrogen cyanide
Antimony pentachloride	Cupric sulfate	Hydrogen sulfide
Antimony potassium tartrate	Cupric sulfate ammoniated	Isoprene
Antimony tribromide	Cupric tartrate	Isopropanolamine
Antimony trichloride	Cyanogen chloride	dodecylbenzenesulfonate
Antimony trifluoride	Cyclohexane	Kelthane
Antimony trioxide	2,4-D acid	Kepone
Arsenic disulfide	(2,4-Dichlorophenoxyacetic acid)	Lead acetate
Arsenic trichloride	2,4-D esters	Lead arsenate
Arsenic trioxide	(2,4-Dichlorophenoxyacetic acid esters)	Lead chloride
Arsenic trisulfide	DDT	Lead fluoborate
Barium cyanide	Diazinon	Lead fluorite
Benzene	Dicamba	Lead iodide
Benzoic acid	Dichlobenil	Lead nitrate
Benzonitrite	Dichlone	Lead stearate
Benzoyl chloride	Dichlorobenzene	Lead sulfate
Benzyl chloride	Dichloropropane	Lead sulfide
Beryllium chloride	Dichloropropene	Lead thiocyanate
Beryllium fluoride	Dichloropropene-Dichloropropane mix	Lindane
Beryllium nitrate	2,2-Dichloropropionic acid	Lithium chromate
Butylacetate		Malathion
n-Butylphthalate		

TABLE 2D-4

## HAZARDOUS SUBSTANCES *(Continued)*

Maleic acid	Sodium bifluoride	Zinc ammonium chloride
Maleic anhydride	Sodium bisulfite	Zinc borate
Mercaptodimethur	Sodium chromate	Zinc bromide
Mercuric cyanide	Sodium cyanide	Zinc carbonate
Mercuric nitrate	Sodium dodecylbenzenesulfonate	Zinc chloride
Mercuric sulfate	Sodium fluoride	Zinc cyanide
Mercuric thiocyanate	Sodium hydrosulfide	Zinc fluoride
Mercurous nitrate	Sodium hydroxide	Zinc formate
Methoxychlor	Sodium hypochlorite	Zinc hydrosulfite
Methyl mercaptan	Sodium methylate	Zinc nitrate
Methyl methacrylate	Sodium nitrate	Zinc phenolsulfonate
Methyl parathion	Sodium phosphate (dibasic)	Zinc phosphide
Mevinphos	Sodium phosphate (tribasic)	Zinc silicofluoride
Mexacarbate	Sodium selenite	Zinc sulfate
Monoethylamine	Strontium chromate	Zirconium nitrate
Monomethylamine	Strychnine	Zirconium potassium fluoride
Naled	Styrene	Zirconium sulfate
Naphthalene	Sulfuric acid	Zirconium tetrachloride
Naphthenic acid	Sulfur monochloride	
Nickel ammonium sulfate	2,4,5-T acid	
Nickel chloride	(2,4,5-Trichlorophenoxy	
Nickel hydroxide	acetic acid)	
Nickel nitrate	2,4,5-Tamines	
Nickel sulfate	(2,4,5-Trichlorophenoxy	
Nitric acid	acetic acid amines)	
Nitrobenzene	2,4,5-T esters	
Nitrogen dioxide	(2,4,5-Trichlorophenoxy	
Nitrophenil	acetic acid esters)	
Nitrotoluene	2,4,5-T salts	
Paraformaldehyde	(2,4,5-Trichlorophenoxy acetic	
Parathion	acid salts)	
Pentachlorophenol	2,4,5-TP acid	
Phenol	(2,4,5-Trichlorophenoxy	
Phosgene	propanoic acid)	
Phosphoric acid	2,4,5-TP acid esters	
Phosphorus	(2,4,5-Trichlorophenoxy	
Phosphorus oxychloride	propanoic acid esters)	
Phosphorus pentasulfide	TDE (Tetrachlorodiphenyl ethane)	
Phosphorus trichloride	Tetraethyl lead	
Polychlorinated biphenyls (PCB)	Tetraethyl pyrophosphate	
Potassium arsenate	Thallium sulfate	
Potassium arsenite	Toluene	
Potassium bichromate	Toxaphene	
Potassium cyanide	Trichlorofon	
Potassium hydroxide	Trichloroethylene	
Potassium permanganate	Trichlorophenol	
Propargite	Triethanolamine	
Propionic acid	dodecylbenzenesulfonate	
Propionic anhydride	Triethylamine	
Propylene oxide	Trimethylamine	
Pyrethrins	Uranyl acetate	
Quinoline	Uranyl nitrate	
Resorcinol	Vanadium pentoxide	
Selenium oxide	Vanadyl sulfate	
Silver nitrate	Vinyl acetate	
Sodium	Vinylidene chloride	
Sodium arsenate	Xylene	
Sodium arsenite	Xylenol	
Sodium bichromate	Zinc acetate	

Table 2D-4

LINE DRAWING

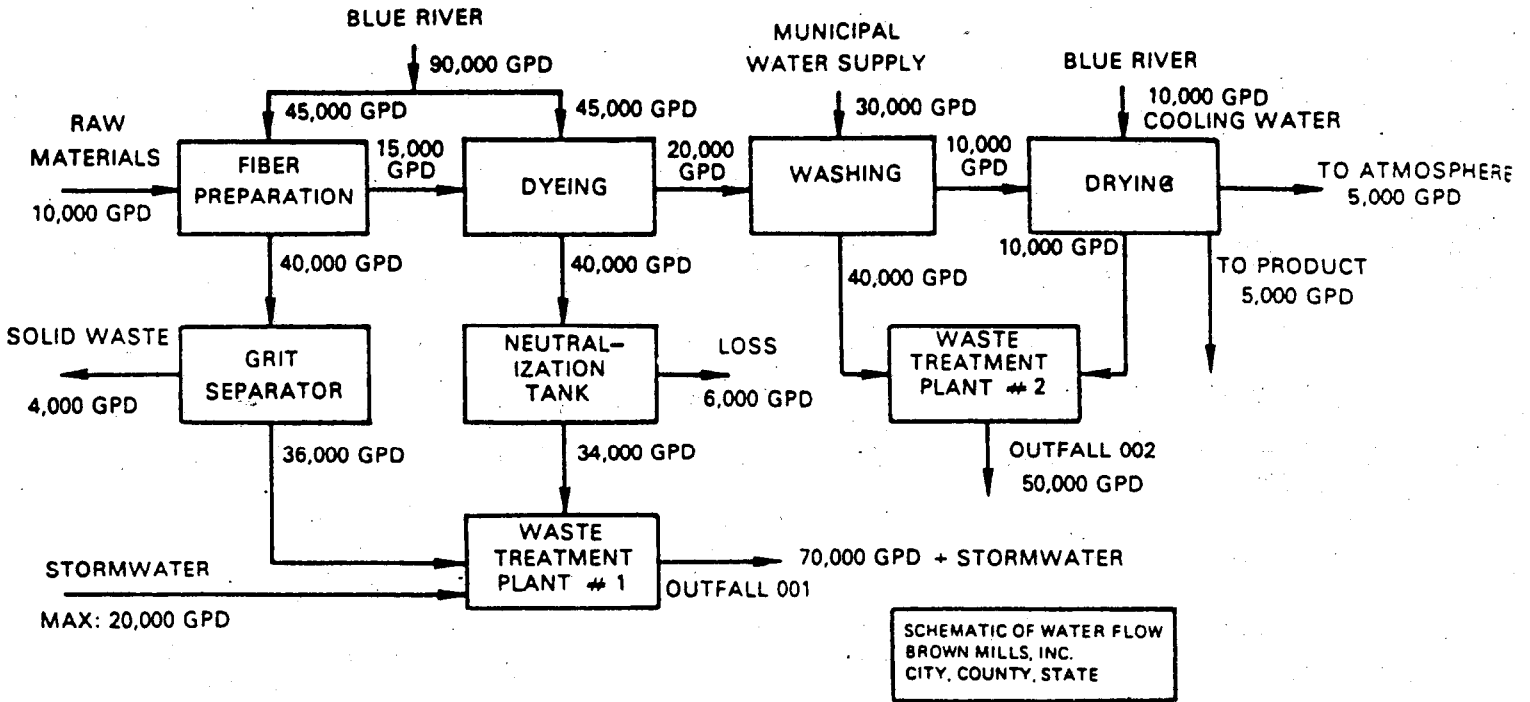


Figure 2D-1









C. Use the space below to list any of the pollutants listed in Table 2D-3 of the instructions which you know or have reason to believe will be discharged from any outfall. For every pollutant you list, briefly describe the reasons you believe it will be present.

1. Pollutant

2. Reason for Discharge

**VI. Engineering Report on Wastewater Treatment**

A. If there is any technical evaluation concerning your wastewater treatment, including engineering reports or pilot plant studies, check the appropriate box below.

Report Available

No Report

B. Provide the name and location of any existing plant(s) which, to the best of your knowledge, resembles this production facility with respect to production processes, wastewater constituents, or wastewater treatments.

Name

Location

**VII. Other Information (Optional)**

Use the space below to expand upon any of the above questions or to bring to the attention of the reviewer any other information you feel should be considered in establishing permit limitations for the proposed facility. Attach additional sheets if necessary.

[Empty space for providing additional information]

**VIII. Certification**

*I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.*

A. Name and Official Title (type or print)	B. Phone No.
C. Signature	D. Date Signed







**VII. Other Information (Optional)**

Use the space below to expand upon any of the above questions or to bring to the attention of the reviewer any other information you feel should be considered in establishing permit limitations for the proposed facility. Attach additional sheets if necessary.

**VIII. Certification**

*I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.*

A. Name and Official Title (type or print)

B. Phone No.

C. Signature

D. Date Signed