Disclaimer

This is an updated PDF document that allows you to type your information directly into the form, print it, and save the completed form.

Note: This form can be viewed and saved only using Adobe Acrobat Reader version 7.0 or higher, or if you have the full Adobe Professional version.

Instructions:

- 1. Type in your information
- 2. Save file (if desired)
- 3. Print the completed form
- Sign and date the printed copy
 Mail it to the directed contact.

United States Environmental Protection Agency Permits Division Office of Water Enforcement and Permits Washington, DC 20460 EPA Form 3510-2D August 1990



Application Form 2D –

New Sources and New Dischargers:

Application for Permit to Discharge Process Wastewater



PAPERWORK REDUCTION ACT NOTICE: The public reporting and recordkeeping burden for this collection of information is estimated to average 32 hours as an average response for some minor facilities, to 46 hours as an average per response for some major facilities, with a weighted average for major and minor of 33.2 hours per response. This estimate includes the time needed to review instructions; develop, acquire, install, and utilize validating, and verifying information, processing and maintaining information, and disclosing and providing information; adjust the existing ways to comply with any previously applicable instructions and requirements; train personnel to respond to a collection of information; and transmit or otherwise disclose the information. As specified in 5 CFR 1320.5(b) (2), an Agency may not conduct or sponsor, and a person is not required to respond to a collection of information to respond to a collection of information; and transmit or otherwise disclose the information. As specified in 5 CFR 1320.5(b) (2), an Agency may not conduct or sponsor, and a person is not required to respond to a collection of information to respond to a collection of information to respond to a collection of information.

Send comments regarding the burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden, to Chief, OPPE Regulatory Information Division, U.S. Environmental Protection Agency 1200 Pennsylvania Ave., NW, Washington, DC 20460; and to the Office of Information and Regulatory Affairs, Office of Management and Budget, 725 17th St., NW, Washington, DC 20503, Attention: Desk Officer for EPA. Include the OMB control number in any correspondence. Do not send the completed application form to these addresses.

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

This form must be completed by 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 not 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 items 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.

ltem 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.

ltem 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 form 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 "wastewater" 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 alternative 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 NPSP 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.

Item 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 spresent 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	lbspounds			
mg/Imilligrams per liter	ton tons (English tons)			
ppb parts per billion	mgmilligrams			
ug/I micrograms per liter	ggrams			
kgkilograms	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	
Estimates from other engineering studies	
Data from other similar plants	3
Best professional estimates	
Othersspecify on the for	m

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)
- 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. 0, O-dimethyl 0-(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 it 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, you 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 to 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 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 office having responsibility for the overall operations of the principal geographic unit of the agency (e.g., Regional Administrators of EPA).

PHYSICAL TREATMENT PROCESSES

1-B 1-C 1-D 1-E 1-F 1-G 1-H 1-I.	Diatomaceous Earth Filtration Distillation Electrodialysis Evaporation Flocculation Flotation Foam Fractionation
1–J	0
	Gas–Phase Separation
1–L	Grinding (Comminutors)

1–M	Grit Removal
1–N	Microstraining
1–0	Mixing
1–P	Moving Bed Filters
1–Q	Multimedia Filtration
1–R	Rapid Sand Filtration
1–S	Reverse Osmosis (<i>Hyperfiltration</i>)
1–T	Screening
1–U	Sedimentation (Settling)
1–V	Slow Sand Filtration
1–W	Solvent Extraction
1–X	Sorption

CHEMICAL TREATMENT PROCESSES

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

BIOLOGICAL TREATMENT PROCESSES

3–A Activated Sludge 3–E Pre-Aera	ition
3–B Aerated Lagoons 3–F	igation/Land Application
3–C Anaerobic Treatment 3–G Stabilizat	tion 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 A	erobic Digestion	5–M	Heat Drying
5–BA	naerobic Digestion	5–N	Heat Treatment
5–C B	Belt Filtration	5–0	Incineration
5–D C	Centrifugation	5–P	Land Application
5–E C	Chemical Conditioning	5–Q	Landfill
5–FC	Chlorine Treatment	5–R	Pressure Filtration
5–GC		5–S	
5–HD	Orying Beds	5–T	Sludge Lagoons
5–I E	Iutriation	5–U	Vacuum Filtration
5–JF	Iotation Thickening	5–V	Vibration
5–KF	reezing	5–W	Wet Oxidation
5–L G	Gravity Thickening		

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

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

Section 1

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

Section 2

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

Section 3

GC/MS FRACTION* — VOLATILE COMPOUNDS

Acrolein Benzene Carbon Tetrachloride Chlorodibramomethane 2-Chloroethylvinyl Ether Dichlorobomomethane 1,2-Dichloroethane 1,2-Dichloropropane Ethylbenzene Methyl Chloride 1,1,2,2-Tetrachloroethane Toluene 1,1,1-Trichloroethane Trichloroethylene Vinyl Chloride Acrylonitirle Bromoform Chlorobenzene Chloroethane Chloroform 1,1-Dichloroethane 1,3-Dichloropropylene Methyl Bromide Methylene chloroethane Tetrachloroethylene 1,2-Trans-Dichloroethylene 1,1.2-Trichloroethane

GS/MS FRACTION — ACID COMPOUNDS

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

GROUP A

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

GROUP B

Sulfate (as S0₄) Sulfide (as S) Sulfite (as S0₃) Surfactants Aluminum, Total Barium, Total Boron, Total Cobalt, Total Iron, Total Magnesium, Total Manganese, Total Tin, Total Titanium, Total

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

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

Acenaphtylene 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-1254 PCB-1232 PCB-1260 Toxaphene *fractions defined in 40 CFR Part 136 Gamma-BHC Delta-BHC Chlordane 4,4' DDE Dieldrin Beta-Endosulfan Endrin Heptachlor PCB-1242 PCB-1221 PCB-1248 PCB-1016

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 Benzonitrile Benzyl chloride Butyl acetate Butylamine Captan Carbaryl Carbofuran Carbon disulfide Chlorpyrifos Coumaphos Cresol Crotonaldehyde Cyclohexane 2,4-D (2,4-Dichlorophenoxyacetic 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

HAZARDOUS SUBSTANCES

Isoprene Isopropanolamine dodecylbenzenesulfonate Kelthane Kepone Malathion Mercaptodimethur Methoxychlor Methyl mercaptan Methyl methacrylate Methyl parathion Mevinphos Mexacarbate Monoethyl amine Monomethyl amine Naled Napthenic acid Nitrotoluene Parathion Phenolsulfonate Phosaene 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

1. Acetaldehyde
2. Acetic acid
3. Acetic anhydride
 Acetone cyanohydrin
5. Acetyl bromide
6. Acetyl chloride
7. Acrolein
8. Acrylonitrile
9. Adipic acid
10. Aldrin
11. Allyl alcohol
12. Allyl chloride
13. Aluminum sulfate
14. Ammonia
15. Ammonium acetate
16. Ammonium benzoate
17. Ammonium bicarbonate
18. Ammonium bichromate
19. Ammonium bifluoride
20. Ammonium bisulfite
21. Ammonium carbamate
22. Ammonium carbonate
23. Ammonium chloride
24. Ammonium chromate
25. Ammonium citrate
25. Ammonium citrate
26. Ammonium fluoroborate
27. Ammonium fluoride
28. Ammonium hydroxide
29. Ammonium oxalate
30. Ammonium silicofluoride
31. Ammonium sulfamate
ST. Ammonium suitamate
32. Ammonium sulfide
 Ammonium sulfite
34. Ammonium tartrate
35. Ammonium thiocyanate
36. Ammonium thiosulfate
37. Amyl acetate
38. Aniline
39. Antimony pentachloride
40. Antimony potassium tartr
41 Antimony tribromido
41. Antimony tribromide
42. Antimony trichloride
43. Antimony trifluoride
44. Antimony trioxide
44. Antimony inoxide
45. Arsenic disulfide
46. Arsenic pentoxide
47. Arsenic trichloride
48. Arsenic trioxide
49. Arsenic trisulfide
50. Barium cyanide
51. Benzene
52. Benzoic acid
53. Benzonitrile
54. Benzoyl chloride
55. Benzyl chloride
56. Beryllium chloride
EZ Domulium furmida
57. Beryllium fluoride
58. Beryllium nitrate
59. Butylacetate
60. n-Butylphthalate
61. Butylamine
62. Butyric acid
63. Cadmium acetate
64. Cadmium bromide
65. Cadmium chloride
66. Calcium arsenate
oo. Calciul II al sei lale

tartrate

67. Calcium arsenite 69. Calcium carbide 69. Calcium chromate 70. Calcium cvanide 71. Calcium dodecylbenzenesulfonate 72. Calcium hypochlorite 73. Captan 74. Carbaryl 75. Carbofuran 76. Carbon disulfide 77. Carbon tetrachloride 78. Chlordane 79. Chlorine 80. Chlorobenzene 81. Chloroform 82. Chloropyrifos 83. Chlorosulfonic acid 84. Chromic acetate 85. Chromic acid 86. Chromic sulfate 87. Chromous chloride 88. Cobaltous bromide 89. Cobaltous formate 90. Cobaltous sulfamate 91. Coumaphos 92. Cresol 93. Crotonaldehyde 94. Cupric acetate 95. Cupric acetoarsenite 96. Cupric chloride 97. Cupric nitrate 98. Cupric oxalate 99. Cupric sulfate 100. Cupric sulfate ammoniated 101. Cupric tartrate 102. Cyanogen chloride 103. Cyclohexane 104. 2,4-D acid (2,4- Dichlorophenoxyacetic acid) 105. 2,4-D esters (2,4-Dichlorophenoxyacetic acid esters) 106. DDT 107. Diazinon 108. Dicamba 109. Dichlobenil 110. Dichlone 111. Dichlorobenzene 112. Dichloropropane 113. Dichloropropene 114. Dichloropropene-Dichloproropane mix 115. 2,2-Dichloropropionic acid 116. Dichlorvos 117. Dieldrin 118. Diethylamine 119. Dimethylamine 120. Dinitrobenzene 121. Dinitrophenol 122. Dinitrotoluene 123. Diquat 124. Disulfoton 125. Diuron

- 126. Dodecylbenzesulfonic acid
- 127. Endosulfan
- 128. Endrin
- 129. Epichlorohydrin
- 130. Ethion

131. Ethvlbenzene 132. Ethylenediamine 133. Ethylene dibromide 134. Ethylene dichloride 135. Ethylene diaminetetracetic acid (EDTA) 136. Ferric ammonium citrate 137. Ferric ammonium oxalate 138. Ferric chloride 139. Ferric fluoride 140. Ferric nitrate 141. Ferric sulfate 142. Ferrous ammonium sulfate 143. Ferrous chloride 144. Ferrous sulfate 145. Formaldehyde 146. Formic acid 147. Fumaric acid 148. Furfural 149. Guthion 150. Heptachlor 151. Hexachlorocyclopentadiene 152. Hydrochloric acid 153. Hydrofluoric acid 154. Hydrogen cyanide 155. Hydrogen sulfide 156. Isoprene 157. Isopropanolamine dodecvlbenzenesulfonate 158. Kelthane 159. Kepone 160. Lead acetate 161. Lead arsenate 162. Lead chloride 163. Lead fluoborate 164. Lead flourite 165. Lead iodide 166. Lead nitrate 167. Lead stearate 168. Lead sulfate 169. Lead sulfide 170. Lead thiocvanate 171. Lindane 172. Lithium chromate 173. Malathion 174. Maleic acid 175. Maleic anhydride 176. Mercaptodimethur 177. Mercuric cyanide 178. Mercuric nitrate 179. Mercuric sulfate 180. Mercuric thiocyanate 181. Mercurous nitrate 182. Methoxychlor 183. Methyl mercaptan 184. Methyl methacrylate 185. Methyl parathion 186. Mevinphos 187. Mexacarbate 188. Monoethylamine 189. Monomethylamine 190. Naled 191. Naphthalene 192. Naphthenic acid 193. Nickel ammonium sulfate 194. Nickel chloride 195. Nickel hydroxide

HAZARDOUS SUBSTANCES (Continued)

Trichlorophenoxy propanoic acid esters)

258. 2.4.5-TP acid esters (2.4.5-

261. Tetraethyl pyrophosphate

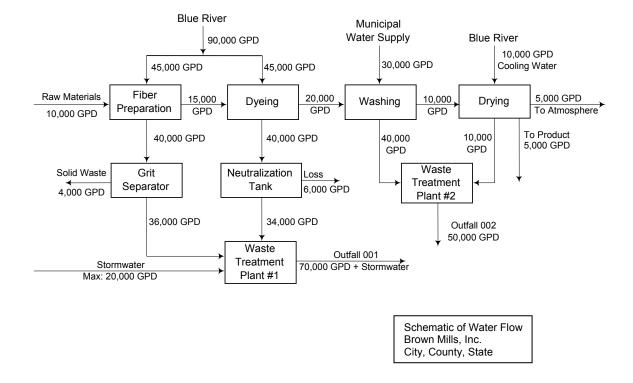
259. TDE (Tetrachlorodiphenyl ethane)

- 196. Nickel nitrate 197. Nickel sulfate 198. Nitric acid 199. Nitrobenzene 200. Nitrogen dioxide 201. Nitrophenol 202. Nitrotoluene 203. Paraformaldehyde 204. Parathion 205. Pentachlorophenol 206. Phenol 207. Phosgene 208. Phosphoric acid 209. Phosphorus 210. Phosphorus oxychloride 211. Phosphorus pentasulfide 212. Phosphorus trichloride 213. Polychlorinated biphenyls (PCB) 214. Potassium arsenate 215. Potassium arsenite 216. Potassium bichromate 217. Potassium chromate 218. Potassium cyanide 219. Potassium hydroxide 220. Potassium permanganate 221. Propargite 222. Propionic acid 223. Propionic anhydride 224. Propylene oxide 225. Pyrethrins 226. Quinoline 227. Resorcinol 228. Selenium oxide 229. Silver nitrate 230. Sodium 231. Sodium arsenate 232. Sodium arsenite 233. Sodium bichromate 234. Sodium bifluoride 235. Sodium bisulfite 236. Sodium chromate 237. Sodium cyanide 238. Sodium dodecylbenzenesulfonate 239. Sodium fluoride 240. Sodium hydrosulfide 241. Sodium hydroxide 242. Sodium hypochlorite 243. Sodium methylate 244. Sodium nitrite 245. Sodium phosphate (dibasic) 246. Sodium phosphate (tribasic) 247. Sodium selenite 248. Strontium chromate 249. Strychnine 250. Styrene 251. Sulfuric acid 252. Sulfur monochloride 253. 2,4,5-T acid (2,4,5-Trichlorophenoxyacetic acid) 254. 2,4,5-T amines (2,4,5-Trichlorophenoxy acetic acid amines)
- 255. 2,4,5-T esters (2,4,5 Trichlorophenoxy acetic acid esters)
- 256. 2,4,5-T salts (2,4,5-Trichlorophenoxy acetic acid salts)
- 257. 2,4,5-TP acid (2,4,5-Trichlorophenoxy propanoic acid)

262. Thallium sulfate 263. Toluene 264. Toxaphene 265. Trichlorofon 266. Trichloroethylene 267. Trichlorophenol 268. Triethanolamine dodecylbenzenesulfonate 269. Triethylamine 270. Trimethylamine 271. Uranyl acetate 272. Uranyl nitrate 273. Vanadium pentoxide 274. Vanadyl sulfate 275. Vinyl acetate 276. Vinylidene chloride 277. Xylene 278. Xylenol

260. Tetraethyl lead

- 279. Zinc acetate
- 280. Zinc ammonium chloride
- 281. Zinc borate
- 282. Zinc bromide
- 283. Zinc carbonate
- 284. Zinc chloride
- 285. Zinc cyanide
- 286. Zinc fluoride
- 287. Zinc formate
- 288. Zinc hydrosulfite
- 289. Zinc nitrate
- 290. Zinc phenolsulfonate
- 291. Zinc phosphide
- 292. Zinc silicofluoride
- 293. Zinc sulfate
- 294. Zirconium nitrate
- 295. Zirconium potassium flouride
- 296. Zirconium sulfate
- 297. Zirconium tetrachloride



Please r	orint or	tyne	in	the	unshaded	areas on	Iv

Porm 2D NPDES EPA I.D. NUMBER (copy from Item 1 of Form 1)

New Sources and New Dischargers Application for Permit to Discharge Process Wastewater

I. Outfall Location

For each outfal	ll, list	the latitude	and longitud	de of its loc	ation to	o the	nearest 15 s	seconds and	d the name of the	e receiving water.	
Outfall Number						Longitude			Receiving Water (name)		
(list)		Deg.	Min.	Sec.	De	eg.	Min.	Sec.			
II. Discharge D	ate (\	When do yo	ou expect to	begin disch	harging	J?)	•	•			
III. Flows, Sou	rces o	of Pollution	n, and Treat	tment Tech	nolog	ies	1				
wastewate	er, coo	oling water,	a description and storm dditional she	water runot	ff; (2) 1	ations The a	s contributir verage flow	ng wastewa contributed	ter to the efflue d by each operat	nt, including process wastewater, sanitary tion; and (3) The treatment received by the	
Outfall Number		1. Operati	ions Contrib (<i>List</i>)	uting Flow				Average Flo		3. Treatment (Description or List codes from Table 2D-1)	
	I										

B. Attach a line drawing showing the water flow through the facility. Indicate sources of intake water, operations contributing wastewater to the effluent, and treatment units labeled to correspond to the more detailed descriptions in Item III-A. Construct a water balance on the line drawing by showing average flows between intakes, operations, treatment units, and outfalls. If a water balance cannot be determined (e.g., for certain mining activities), provide a pictorial description of the nature and amount of any sources of water and any collection or treatment measures.										
C. Except for storm runoff, leaks, or spills, will any of the discharges described in Items III-A be intermittent or seasonal? YES (complete the following table) NO (go to Section IV)										
		ng table)		1. Freq		0// / V)	2. Flow			
	Outfall		a. Day		b. Months	a. Maximum Daily				
	Number		Per We	ek	Per Year	Flow Rate	Total Volume	c. Duration		
(specify average) (in mgd) (specify with units) (in day (in mgd) (specify with units) (specify with units) (in mgd) (specify with units) (specify with units) <td>(in days)</td>								(in days)		
IV. Production										
If there is an a production leve	pplicable production-ba l, not design), expresse duction is likely to vary,	ed in the te	erms and uni	its used	in the applicable e	ffluent guideline or N				
Year	A. Quantity Per Day		Of Measure			eration, Product, Mat	terial etc. (specify)			
1001	7. Quantity i Ci Day	5. 01113 (с. Ор					

CONTINUED FROM THE FRONT	EPA I.D. NUM	BER (copy from Item 1	of Form 1)	Outfall Number		
V. Effluent Characteristics						
A and B: These items require you to report estimated amounts (<i>both concentration and mass</i>) of the pollutants to be discharged from each of your outfalls. Each part of this item addresses a different set of pollutants and should be completed in accordance with the specific instructions for that part. Data for each outfall should be on a separate page. Attach additional sheets of paper if necessary.						
General Instructions (See table 2D-2 for Pollutants) Each part of this item requests you to provide an estimated daily maximum and average for certain pollutants and the source of information. Data for all pollutants in Group A, for all outfalls, must be submitted unless waived by the permitting authority. For all outfalls, data for pollutants in Group B should be reported only for pollutants which you believe will be present or are limited directly by an effluent limitations guideline or NSPS or indirectly through limitations on an indicator pollutant.						
1. Pollutant	2. Maximum Daily Value (include units)	3. Average Daily Value (include units)		4. Source (see instructions)		

CONTINUED FROM THE FRONT	EPA I.D. NUMBER (copy from Item 1 of Form 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 Treatr					
A. If there is any technical evaluation conce appropriate box below.	erning your wastewater treatment, including engineering reports or pilot plant studies, check the				
Report Available	No Report				
B. Provide the name and location of any exis production processes, wastewater constitute	ting plant(s) which, to the best of your knowledge resembles this production facility with respect to ents, or wastewater treatments.				
Name	Location				

EPA I.D. NUMBER (copy from Item 1 of Form 1)

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 (<i>type or print</i>)	B. Phone No.
C. Signature	D. Date Signed