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# Guidance Manual For The Preparation Of NPDES Permit Applications For Storm Water Discharges Associated With Industrial Activity

# **GUIDANCE MANUAL** FOR THE PREPARATION OF NPDES PERMIT APPLICATIONS FOR STORM WATER DISCHARGES **ASSOCIATED WITH INDUSTRIAL ACTIVITY**

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**U.S. Environmental Protection Agency** Office of Wastewater Enforcement and Compliance 401 M Street, S.W. Washington, D.C. 20460



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# TABLE OF CONTENTS

LIST OF	TABLES	i
LIST OF	FIGURES	ii
PREFAC	CE i	ii
SECTIO	N 1.0 INTRODUCTION	1
1.	1 What Is The Purpose Of This Guidance Manual?	1
1.	2 How Is This Manual Organized?	1
SECTIO	N 2.0 WHAT IS THE NPDES PERMIT PROGRAM?	2
2	1 Authorized NPDES State Programs	2
2.	2 What Is A Storm Water Discharge Associated With	-
	Industrial Activity?	2
2.	3 Discharges Through Large And Medium Municipal Separate	-
_	Storm Sewer Systems	7
2.	4 Discharges To Combined Sewer Systems	9
2.	5 Options For Applying For Permit Coverage	9
SECTIO	N 3.0 INDIVIDUAL ADDI ICATION DEOLIDEMENTS 1	2
	1 The Process Of Submitting Individual Applications 1	2
2.	2 Forms 1 And 2E	.) 5
2	2 Fullis I Alia 2F 1 2 Special Provisions For Selected Discharges 1	5
5.	2.2.1 Special Provisions For Small Rusinesses	.0 ∠
	2.2.2 Special Provisions For Construction Activities	0.7
	3.5.2 Special Provisions For Construction Activities	./
2	5.5.5 Mining And Oil And Gas Operations	./
3.	4 Individual Applications Deadlines	ð.
3.	5 when Are Additional Forms Required?	.9
3.	6 Where To Obtain And Submit Applications	.9
3.	7 Signatories 1	.9
3.	8 Penalties For Knowingly Submitting False Information 2	.0
SECTIO	N 4.0 THE PERMITTING PROCESS	1
4.	1 How Are Individual Applications Processed? 2	1
4.	2 Completeness Of The Application 2	1
4.	3 Public Availability Of Submitted Information	4
4.	4 How Long Is A Permit Valid? 2	4
4.	5 How Are NPDES Permits Enforced? 2	4
SECTIO	N 5.0 TECHNICAL SUPPORT FOR SPECIFIC	
	ELEMENTS OF THE NPDES PERMIT	
	APPLICATION FORMS	6
5	1 Overview	6
5. 5	2 Site Drainage Map	6
ງ. ເ	3 Identification Of Outfalls To Be Monitored	7
Э.	- Identification of outland to be Monitored	1

5.4	Evalua 5 4 1	ation Of The Presence Of Non-storm Water Discharges	27
	J.4.1	Outfall Description	20
	542	Review and Validation of Dining Schematics	29
	3.4.2	Description	20
	513	Due Teste Description	27
	5 1 1	TV Line Surveys Description	20
5 5	Ectim.	ates Of Discharge Flow Potes And Volumes	21
5.5		Les OI Discharge Flow Rales And Volumes	31
	5.5.1	Estimating Flows and volumes	31
	5.5.2	Flow Kate Measurements	32
	5.5.5	Estimation of Flow Rates Based on Flow Velocity	
	5 5 A	Estimation of Volumes Decid on Flow Data Estimates	33
<b>F</b> (	5.5.4	Estimation of volumes based on Flow Rate Estimates .	33
3.0	Collec	ting Storm water Discharge Samples	37
	5.6.1	Grab Samples	38
	5.6.2	Flow-Weighted Composite Samples	38
	5.6.3	Pollutants to Be Analyzed	44
	5.6.4	Reporting	46
SECTION 6.	0	REFERENCES	48
APPENDIX	A:	SELECTED TEXT FROM 40 CFR SECTION 122.26 .	49
APPENDIX	B:	DEFINITIONS OF KEY TERMS	55
APPENDIX	C:	INFORMATION FOR EPA REGIONAL	
	•	OFFICES AND STATES WITH APPROVED	
		NPDES PROGRAMS	62
	C 1.	FEDERAL STATE AND DECIONAL	
APPENDIX	C.I:	FEDERAL, STATE, AND REGIONAL	12
		PERMITTING AGENCY CONTACTS	63
APPENDIX	C.2:	ADDRESSES AND TELEPHONE	
	0.2.	NUMBERS OF FPA REGIONAL OFFICES	
		AND STATES WITHIN THE REGIONAL	
			71
		OFFICE JURISDICTION	/1
APPENDIX	D:	PROCEDURES FOR SUBMITTING A	
	2.	GROUP APPLICATION	73
			10
APPENDIX	D.1:	EPA REVIEW PROCEDURES FOR A	
		GROUP APPLICATION	75
	F٠	NPDES PERMIT APPI ICATION FORMS	
	<b>L</b> .	AND INSTRUCTIONS FOR THE	
		DED MITTING DDACESS	76
			70
APPENDIX	E 1.	FORM 1	77
THE LEVEN			

APPENDIX E.2:	FORM 2F	78
APPENDIX E.3:	FORM 2C	79
APPENDIX E.4:	FORM 2D	80
APPENDIX E.5:	FORM 2E	81

# LIST OF TABLES

<u>Table</u>	Title	Page
2-1	CONTENTS OF 40 CFR PARTS 400 TO 471 (SUBCHAPTER N)	4
2-2	STANDARD INDUSTRIAL CLASSIFICATION (SIC) CODE GROUPS WHICH ARE REFERENCED IN THE NPDES STORM WATER REGULATIONS	8
4-1	PERMIT APPLICATION CHECKLIST	22
5-1	EXAMPLE CALCULATION OF THE TOTAL RUNOFF FLOW VOLUME FROM FIELD DATA	35
5-2	EXAMPLE PREPARATION OF A MANUALLY COMPOSITED FLOW-WEIGHTED SAMPLE	41

# LIST OF FIGURES

<u>Figure</u>	Title	Page
2-1	FLOWCHART FOR NPDES PERMITTING OF INDUSTRIAL STORM WATER DISCHARGES	10
3-1	FLOW DIAGRAM TO IDENTIFY WHICH FORMS MUST BE SUBMITTED WHEN APPLYING FOR AN INDIVIDUAL NPDES STORM WATER DISCHARGE PERMIT	14
5-1	EXAMPLE INDUSTRIAL STORM RUNOFF OUTFALLS WITH STORM WATER DISCHARGE ASSOCIATED WITH INDUSTRIAL ACTIVITY	28
Appen D-1	dix RAINFALL ZONES OF THE UNITED STATES	74

Water quality problems have occupied an increasingly prominent role in the public's awareness over the past several decades. In 1972, Congress passed significant amendments to the Federal Water Pollution Control Act (commonly referred to as the Clean Water Act or CWA) to prohibit the discharge of any pollutant to waters of the United States from a point source unless the discharge was authorized by a National Pollutant Discharge Elimination System (NPDES) permit. NPDES permits specify monitoring, reporting and control requirements, including allowable levels of pollutants in discharges.

Efforts to improve water quality under the NPDES program have traditionally focused on reducing pollutants in discharges of industrial process wastewater and municipal sewage. Industrial process discharges and sewage outfalls were easily identified as responsible for poor, often drastically degraded water quality conditions. However, as pollution control measures were installed for these discharges, it became evident that more diffuse sources (occurring over a wide area) of water pollution were also major causes of water quality problems.

For many years, most of the environmental law makers and the public alike assumed that runoff from urban and other areas subjected to man's activities was essentially "clean"water. However, during the past twenty years or so, this view has changed. It is now recognized that rainfall picks up a multitude of pollutants from falling on and draining off streets and parking lots, construction and industrial sites, and mining, logging and agricultural areas. The pollutants are dissolved into and are carried off by the rainfall as it drains from these surfaces and areas. Through natural or manmade conveyances, the runoff is channeled into and transported by gravity flow through a wide variety of drainage facilities. Once in these facilities, the runoff may scour accumulated pollutants out of gutters, catchbasins, storm sewers, and drainage channels. The runoff eventually ends up in surface water bodies such as creeks, rivers, estuaries, bays, and oceans.

Many recent studies have shown that runoff from urban and industrial areas typically contains significant quantities of the same general types of pollutants that are found in wastewaters and industrial discharges and cause similar water quality problems. These pollutants include heavy metals (e.g., chromium, cadmium, copper, lead, nickel, zinc), pesticides, herbicides, and organic compounds such as fuels, waste oils, solvents, lubricants, and grease. These pollutants may cause problems for both human health and aquatic organisms.

In general, assessments of water quality are difficult to perform and verify. However, several national assessments have been made. For the purposes of these assessments, runoff from urban and industrial areas has been considered as a diffuse source or "nonpoint" source of pollution. Legally, however, most urban runoff is discharged through conveyances such as separate storm sewers or other conveyances which are point sources under the CWA and are, therefore, subject to the NPDES program.

To provide a better understanding of the nature of storm water runoff from residential, commercial, and light industrial areas (collectively referred to as urban), the U.S. Environmental Protection Agency (EPA) provided funding and guidance to the Nationwide Urban Runoff Program (NURP), which was conducted from 1978 through 1983. The NURP study provided insight on what can be considered background levels of pollutants for urban runoff. NURP also concluded that the quality of urban runoff can be adversely impacted by several sources of pollutants that were not directly evaluated in the study, including illicit connections, construction and industrial site runoff, and illegal dumping.

Other studies have shown that storm sewers contain illicit discharges of non-storm water, and that wastes, particularly used oils, are improperly disposed of in storm sewers. Removal of non-storm water discharges to storm sewers presents opportunities for dramatic improvements in the quality of storm water discharges.

In 1987, the Clean Water Act was revised by adding Section 402(p) to address storm water. In summary, Section 402(p) states that prior to October 1, 1992, the NPDES program cannot require permits for discharges composed entirely of storm water unless one of the following conditions apply:

- 1) The discharge has been permitted prior to February 4, 1987 (in this case, the operator is required to maintain the existing permit).
- 2) The discharge is associated with industrial activity.
- 3) The discharge is from a large (population greater than 250,000) or medium (population greater than 100,000 but less than 250,000) municipal separate storm sewer system.
- 4) The permitting authority determines that the discharge contributes to a violation of a water quality standard or is a significant contributor of pollutants to the waters of the United States.

Section 402(p) of the CWA requires EPA to establish NPDES permit application requirements for storm water discharges associated with industrial activity; discharges from large municipal separate storm water systems (systems serving a population of 250,000 or more); and discharges from medium municipal separate storm water systems (systems serving a population of 100,000 or more, but less than 250,000). In response to this requirement, EPA published permit application requirements on November 16, 1990 (55 <u>FR</u> 47990). This manual provides guidance to facility operators discharging storm water associated with industrial activity on how to comply with the permit application requirements.

#### 1.1 What Is The Purpose Of This Guidance Manual?

The Federal Water Pollution Control Act (also known as the Clean Water Act (CWA)), as amended in 1987, requires National Pollutant Discharge Elimination System (NPDES) permits for storm water discharges associated with industrial activity.

On November 16, 1990, (55 <u>FR</u> 47990), the Environmental Protection Agency (EPA) issued regulations establishing permit application requirements for storm water discharges associated with industrial activity. These regulations are primarily contained in Section 122.26 of Section 40 of the Code of Federal Regulations (40 CFR Part 122.26).

The purpose of this manual is to assist operators of facilities which discharge storm water associated with industrial activity in complying with the requirements for applying for an NPDES permit. This manual provides operators with an overview of the permitting process and information regarding the permit application requirements including: which forms are to be completed; where these are to be submitted; and when permit applications are due. In addition, this manual provides technical information on sample collection procedures.

### 1.2 How Is This Manual Organized?

This guidance manual contains five sections and several appendices. Section 2.0 explains the NPDES permit program, who must file an application and the different options for applying. Section 3.0 discusses the individual application requirements, including the necessary forms and information to be provided. Section 4.0 explains the permitting process, how applications are handled, whether an application is complete and public availability of the information. Technical guidance for the preparation of selected parts of the permit application forms is provided in Section 5.0. Pertinent regulatory guidance materials and other references are provided in Section 6.0.

Additional information is provided in the appendices to this manual. These appendices contain selected text from 40 CFR Part 122.26 (Appendix A), definitions of key terms (Appendix B), addresses for EPA Regional Offices and State agencies (Appendix C), procedures for filing a group application (Appendix D), and copies of the various permit application forms (Appendix E).

#### SECTION 2.0 WHAT IS THE NPDES PERMIT PROGRAM?

This section provides a description of the NPDES permitting program. Section 2.2 describes the regulatory term "storm water associated with industrial activity" which defines the scope of the NPDES program requirements with respect to industrial storm water discharges. Section 2.3 describes notification requirements for storm water discharges associated with industrial activity to large or medium municipal separate storm sewer systems. (These storm water discharges associated with industrial activity are also required to obtain NPDES permit coverage). Section 2.4 explains that storm water discharges associated with industrial activity to sanitary sewers, including combined sewers, are not required to obtain NPDES permit coverage. Section 2.5 describes three options that operators of storm water discharges associated with industrial activity may follow for obtaining permit coverage for storm water discharges associated with industrial activity: (1) individual permit applications; (2) group applications; and (3) case-by-case requirements developed for general permit coverage.

#### 2.1 Authorized NPDES State Programs

The CWA allows States to request EPA authorization to administer the NPDES program instead of EPA. Upon authorization of a State program, the State is primarily responsible for issuing permits and administering the NPDES program in the State. At all times following authorization, State NPDES programs must be consistent with minimum Federal requirements, although they may always be more stringent.

State authority is divided into four parts: municipal and industrial permitting (including permitting for storm water discharges from non-Federal facilities); Federal facilities (including permitting for storm water discharges from Federal facilities); pretreatment; and general permitting. At this point in time, 39 States or Territories are authorized to, at a minimum, issue NPDES permits for municipal and industrial sources. In the 12 States and 6 territories without NPDES authorized programs, EPA issues all NPDES permits. In 6 of the 39 States that are authorized to issue NPDES permits for municipal and industrial sources, EPA issues permits for discharges from Federal facilities.

#### 2.2 What Is A Storm Water Discharge Associated With Industrial Activity?

The November 16, 1990 regulation established the following definition of "storm water discharge associated with industrial activity" at 40 CFR 122.26(b)(14):

"Storm water discharge associated with industrial activity" means the discharge from any conveyance which is used for collecting and conveying storm water

and which is directly related to manufacturing, processing or raw materials storage areas at an industrial plant. The term does not include discharges from facilities or activities excluded from the NPDES program under 40 CFR **Part** 122. For the categories of industries identified in subparagraphs (i) through (x) of this subsection, the term includes, but is not limited to, storm water discharges from industrial plant yards; immediate access roads and rail lines used or traveled by carriers of raw materials, manufactured products, waste material, or by-products used or created by the facility; material handling sites; refuse sites; sites used for the application or disposal of process waste waters (as defined at 40 CFR 401); sites used for the storage and maintenance of material handling equipment; sites used for residual treatment, storage, or disposal; shipping and receiving areas; manufacturing buildings; storage areas (including tank farms) for raw materials, and intermediate and finished products; and areas where industrial activity has taken place in the past and significant materials remain and are exposed to storm water. For the categories of industries identified in subparagraph (xi), the term includes only storm water discharges from all the areas (except access roads and rail lines) that are listed in the previous sentence where material handling equipment or activities, raw materials, intermediate products, final products, waste materials, by-products, or industrial machinery are exposed to storm water. For the purposes of this paragraph, material handling activities include the: storage, loading and unloading, transportation, or conveyance of any raw material, intermediate product, finished product, by-product or waste product. The term excludes areas located on plant lands separate from the plant's industrial activities, such as office buildings and accompanying parking lots as long as the drainage from the excluded areas is not mixed with storm water drained from the above described areas. Industrial facilities (including industrial facilities that are Federally, State, or municipally owned or operated that meet the description of the facilities listed in this paragraph (i)-(xi)) include those facilities designated under the provisions of 122.26(a)(1)(v). The following categories of facilities are considered to be engaging in "industrial activity" for purposes of this subsection:

(i) Facilities subject to storm water effluent limitations guidelines, new source performance standards, or toxic pollutant effluent standards under 40 CFR Subchapter N (except facilities with toxic pollutant effluent standards which are exempted under category (xi) of this paragraph); (See Table 2-1)

(ii) Facilities classified as Standard Industrial Classifications 24 (except 2434), 26 (except 265 and 267), 28 (except 283 and 285) 29, 311, 32 (except 323), 33, 3441, 373;

(iii) Facilities classified as Standard Industrial Classifications 10 through 14 (mineral industry) including active or inactive mining operations (except for areas of coal mining operations no longer meeting the definition of a reclamation area under 40 CFR 434.11(l) because the performance bond issued to the facility by the appropriate SMCRA authority has been released,

Part	Subchapter N - Effluent Guidelines and Standards
400	[Reserved]
401	General Provisions
402	[Reserved]
403	General pretreatment regulations for existing and new sources of pollution
405	Dairy products processing point source category
406	Grain mills point source category
407	Canned and preserved fruits and vegetables processing point source category
408	Canned and preserved seafood processing point source category
409	Sugar processing point source category
410	Textile mills point source category
411	Cement manufacturing point source category
412	Feedlots point source category
413	Electroplating point source category
414	Organic chemicals, plastics, and synthetic fibers
415	Inorganic chemicals manufacturing point source category
416	[Reserved]
417	Soap and detergent manufacturing point source category
418	Fertilizer manufacturing point source category
419	Petroleum refining point source category
420	Iron and steel manufacturing point source category
421	Nonferrous metals manufacturing point source category
422	Phosobate manufacturing point source category
473	Steam electric power generating point source category
425	Ferroallov manufacturing point source category
425	I eather tanning and finishing point source category
426	Glass manufacturing point source category
420	Ashestos manufacturing point source category
428	Pubber manufacturing point source category
420	Timber products processing point source category
430	Pulp, paper, and paperboard point source category
421	The builders' names and board mills point source category
422	Meat products paper and board minis point source category Meat products point source category
432	Metal finishing point source category
433 121	Coal mining point source category BDT BAT BCT limitations and
434	coar mining point source category, DF1, DA1, DC1 miniations and
125	Oil and gas extraction point source category
433	Minard mining and processing point course estagery
430	Mineral mining and processing point source category
439	Pharmaceutical manufacturing point source category
440	Ore mining and dressing point source category
443	Emuent limitations guidelines for existing sources and standards
	or performance and pretreatment standards for new sources for the paving
	and rooning materials (tars and asphalt) point source category
440	rant formulating point source category
44   AE A	Ink formulating point source category
404	Gum and wood chemicals manufacturing point source category
433	resticide chemicais
43/	Explosives manufacturing point source category
438	Carbon black manufacturing point source category

Table 2-1.	CONTENTS (	<b>DF 40</b>	<b>CFR PARTS</b>	400 TO 471	(SUBCHAPTER N)	(continued)
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Part	Subchapter N - Effluent Guidelines and Standards	
459	Photographic point source category	
460	Hospital point source category	
461	Battery manufacturing point source category	
463	Plastics molding and forming point source category	
464	Metal molding and casting point source category	
465	Coil coating point source category	
466	Porcelain enameling point source category	
467	Aluminum forming point source category	
468	Copper forming point source category	
469	Electrical and electronic components point source category	
471	Nonferrous metals forming and metal powders point source category	

or except for areas of non-coal mining operations which have been released from applicable State or Federal reclamation requirements after December 17, 1990 and oil and gas exploration, production, processing, or treatment operations, or transmission facilities that discharge storm water contaminated by contact with or that has come into contact with, any overburden, raw material, intermediate products, finished products, byproducts or waste products located on the site of such operations; (inactive mining operations are mining sites that are not being actively mined, but which have an identifiable owner/operator; inactive mining sites do not include sites where mining claims are being maintained prior to disturbances associated with the extraction, beneficiation, or processing of mined materials, nor sites where minimal activities are undertaken for the sole purpose of maintaining a mining claim);

(iv) Hazardous waste treatment, storage, or disposal facilities, including those that are operating under interim status or a permit under Subtitle C of RCRA;

(v) Landfills, land application sites, and open dumps that receive or have received any industrial wastes (waste that is received from any of the facilities described under this subsection) including those that are subject to regulation under Subtitle D of RCRA;

(vi) Facilities involved in the recycling of materials, including metal scrap yards, battery reclaimers, salvage yards, and automobile junkyards, including but limited to those classified as Standard Industrial Classification 5015 and 5093;

(vii) Steam electric power generating facilities, including coal handling sites;

(viii) Transportation facilities classified as Standard Industrial Classifications 40, 41, 42 (except 4221-25), 43, 44, 45, and 5171 which have vehicle maintenance shops, equipment cleaning operations, or airport deicing operations. Only those portions of the facility that are either involved in vehicle maintenance (including vehicle rehabilitation, mechanical repairs, painting, fueling, and lubrication), equipment cleaning operations, airport deicing operations, or which are otherwise identified under paragraphs (i)-(vii) or (ix)-(xi) of this subsection are associated with industrial activity;

(ix) Treatment works treating domestic sewage or any other sewage sludge or wastewater treatment device or system, used in the storage treatment, recycling, and reclamation of municipal or domestic sewage, including land dedicated to the disposal of sewage sludge that are located within the confines of the facility, with a design flow of 1.0 mgd or more, or required to have an approved pretreatment program under 40 CFR 403. Not included are farm lands, domestic gardens or lands used for sludge management where sludge is beneficially reused and which are not physically located in the confines of the facility, or areas that are in compliance with Section 405 of the CWA; (x) Construction activity including clearing, grading and excavation activities except: operations that result in the disturbance of less than five acres of total land area which are not part of a larger common plan of development or sale;

(xi) Facilities under Standard Industrial Classifications 20, 21, 22, 23, 2434, 25, 265, 267, 27, 283, 285, 30, 31 (except 311), 323, 34 (except 3441), 35, 36, 37 (except 373), 38, 39, 4221-25, (and which are not otherwise included within categories (ii)-(x))."

Table 2-2 lists Standard Industrial Classification (SIC) Code groups which are referenced in the regulatory definition of 'storm water associated with industrial activity'.

Several aspects of the regulatory definition are highlighted below:

- o The term 'storm water discharge associated with industrial activity' excludes storm water drained from areas located on plant lands separate from the plant's industrial activities, such as office buildings and accompanying parking lots as long as the drainage from the excluded areas is not mixed with storm water drained from the above described areas.
- Storm water discharges associated with industrial activity include appropriate storm water discharges from Federally, State, or municipally owned or operated facilities that conduct activities that are described in subparagraphs
   (i) (vi) of the regulatory definition

(i)-(xi) of the regulatory definition.

o For the categories of industries identified in subparagraph (xi), the term 'storm water discharges associated with industrial activity' includes only storm water discharges from all the areas (except access roads and rail lines) that are listed in the regulatory definition where material handling equipment or activities, raw materials, intermediate products, final products, waste materials, by-products, or industrial machinery <u>are exposed</u> to storm water.

#### 2.3 Discharges Through Large And Medium Municipal Separate Storm Sewer Systems

Storm water discharges associated with industrial activity discharged through municipal separate storm sewers to waters of the United States are required to obtain NPDES permit coverage. In addition to meeting the requirements discussed in Section 4.0 of this manual, operators of storm water discharges associated with industrial activity which discharge through large or

# Table 2-2. STANDARD INDUSTRIAL CLASSIFICATION (SIC) CODE GROUPS WHICH ARE REFERENCED IN THE NPDES STORM WATER REGULATIONS

SIC Code	
No. <sup>(1)</sup>	Title
10	Metal Mining
12	Coal Mining
13	Oil and Gas Extraction
14	Nonmetallic Minerals, Except Fuels
20	Food and Kindred Products
21	Tobacco Products
22	Textile Mill Products
23	Apparel and Other Textile Products
24	Lumber and Wood Products
25	Furniture and Fixtures
26	Paper and Allied Products
27	Printing and Publishing
28	Chemicals and Allied Products
29	Petroleum and Coal Products
30	Rubber and Miscellaneous Plastic Products
31	Leather and Leather Products (except 311)
32	Stone, Clay, and Glass Products
33	Primary Metal Industries
34	Fabricated Metal Products
35	Industrial Machinery and Equipment
36	Electronic and Other Electric Equipment
37	Transportation Equipment
38	Instruments and Related Products
39	Miscellaneous Manufacturing Industries
40	Railroad Transportation
41	Local and Interurban Passenger Transit
42	Trucking and Warehousing
43	United States Postal Service
44	Water Transportation
45	Transportation by Air
5015	Motor Vehicle Parts, Used
5093	Scrap and Waste Materials
5171	Petroleum Bulk Stations and Terminals

Notes:

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(1) For the exact 4-digit SIC codes within each industry group number, refer to the <u>Standard Industrial Classification</u> <u>Manual</u>, 1987 Edition, U.S. Executive Office of the President, Office of Management and Budget.

medium municipal separate storm sewer systems are required to submit the following information to the operator of the municipal separate storm sewer receiving the discharge no later than May 15, 1991 or 180 days prior to commencing such discharge:

- (i) the name of the facility;
- (ii) a contact person and phone number;
- (iii) the location of the discharge; and

(iv) a description, including Standard Industrial Classification, which best reflects the principal products or services provided by each facility.

The terms "municipal separate storm sewer", "large municipal separate storm sewer system" and "medium municipal separate storm sewer system" are defined in Appendix B.

#### 2.4 Discharges To Combined Sewer Systems

Discharges to municipal sanitary systems, including combined sewer systems (systems designed to convey municipal sanitary sewage and storm water) are not required to obtain NPDES permit coverage. However, these discharges may be subject to pretreatment requirements, including requirements implemented by permits issued by the operator of the municipal treatment plant.

## 2.5 Options For Applying For Permit Coverage

The NPDES regulatory scheme provides three potential tracts for obtaining permit coverage for storm water discharges associated with industrial activity: (1) individual permit applications; (2) group applications; and (3) caseby-case requirements developed for general permit coverage.

A flowchart illustrating the three potential routes, or tracks for applying for permit coverage, as well as a route or track for discharges to combined sewers is provided in Figure 2-1. The four tracks are named: the general permit track, the group application track, the individual application track, or the combined sewer track. Dischargers following the first three are required to submit information, whereas the fourth track, the combined sewer track, illustrates that permits are not required for industrial discharges to combined sewer systems<sup>1</sup>.

<sup>&</sup>lt;sup>1</sup> NPDES permit coverage is required for storm water discharges associated with industrial activity which either discharge directly to waters of the United States, through a municipal separate storm sewer to waters of the United States, or through a privately owned conveyance to waters of the United States. Permits are not required for industrial discharges to municipal <u>sanitary</u> sewer systems, including combined sewer systems. However, municipalities operating combined sewer overflows are required to obtain NPDES permits.



# Notes:

- Permitting Authority: States which have NPDES permit authority, otherwise EPA regional offices
   States with NPDES permit authority can disallow participation in a group application
   Time line begins at the date of publication of the final rule

- (4) Other forms may be required in addition to Forms 1 and 2F



The individual permit application track (i.e., the third tier on the flowchart) is applicable to all storm water discharges associated with industrial activity except: where the operator of the discharge is participating in a group application; where a general permit has been issued to cover the discharge and the general permit provides alternative means to obtain permit coverage; or where the discharge is to a sanitary sewer, including a combined sewer. For most storm water discharges associated with industrial activity, the requirements for an individual permit application are incorporated into Form 1 and Form 2F. Special individual application requirements for storm water discharges associated with industrial activity from construction activities, mining operations, oil and gas operations, and small businesses are discussed in Chapter 3.

The group application track (i.e., the second tier of the flowchart) allows a group of similar industries to submit a group application. This will often be an efficient alternative to preparing and submitting individual permit applications because it may reduce the cost for applicants. The requirements for group applications are discussed in Appendix D. Authorized NPDES States may establish requirements which are more stringent than EPA requirements, and may require facilities with storm water discharges associated with industrial activity to submit individual applications rather than participate in a group application.

The general permit track (i.e., the top tier of the flowchart) may be available where a general permit for the discharge has been issued. In this case, the facility operator must comply with any applicable Notice of Intent (NOI) provisions of the general permit instead of submitting an individual permit application.

The combined sewer track (i.e., the bottom tier of the flowchart) is followed if an industrial facility discharges storm water associated with industrial activity to a municipal sanitary sewer, including sewers that are part of a combined sewer systems. In this case, an NPDES permit for the storm water discharge to the combined sewer is not required. However, the operator of the sewage treatment works may develop pretreatment requirements (including requirements implemented through permits issued by the sewage treatment operator) applicable to industrial facilities discharging to combined sewers. Section 2.5 of this manual describes the three options that operators of storm water discharges associated with industrial activity may follow for obtaining permit coverage for storm water discharges associated with industrial activity: (1) individual permit applications; (2) group applications; and (3) case-by-case requirements developed for general permit coverage. In addition, section 2.4 explains that storm water discharges associated with industrial activity to municipal sanitary systems, including combined sewer systems (systems designed to convey municipal sanitary sewage and storm water) are not required to obtain NPDES permit coverage.

This Chapter focusses on the procedures and requirements associated with submitting individual permit applications. Appendix D.2 discusses the procedures and requirements associated with submitting group applications.

Section 3.1 discusses the process of submitting individual permit applications. Section 3.2 provides an overview of the requirements of Form 1 and Form 2F, the individual permit application forms for most storm water discharges associated with industrial activity. Section 3.3 discusses special provisions for individual applications for storm water discharges associated with industrial activity from: small businesses; construction activities; and mining and oil and gas operations. Section 3.4 discusses deadlines for submitting individual permit applications. Section 3.5 describes the additional application forms that are necessary if storm water associated with industrial activity is mixed with nonstorm water. Section 3.6 explains where to obtain and submit permit applications. Section 3.7 describes signatory requirements for individual permit applications, and Section 3.8 describes penalties for knowingly submitting false information.

# 3.1 The Process Of Submitting Individual Applications

Figure 3-1 illustrates the process of selecting and submitting the application forms to use for individual permit applications for storm water discharges associated with industrial activity. The items on this list are discussed below:

- 1) Determine whether the discharge is considered a storm water discharge associated with industrial activity. Refer to the definition of "storm water discharge associated with industrial activity" provided in Section 2.2 of this guidance.
- 2) Determine whether the State in which the discharge(s) is located has an authorized NPDES program. A list of these States is provided in Appendix C. The permit application forms required by

Operators of a facility which:

- 1) discharge storm water associated with an industrial activity, or
- 2) discharge storm water that the permitting authority designates as a significant contributor of pollutants to waters of the U.S., or
- 3) discharge storm water that contributes to a violation of a water quality standard

are required to submit an application for a NPDES storm water discharge permit, unless a general permit has been issued. In this case, the facility operator must comply with the Notice of Intent provisions in lieu of submitting an application. Facility operators submitting an individual permit application must complete <u>FORM 1</u> (EPA Form 3510-1) and <u>FORM 2F</u> (EPA Form 3510-2F). Additional forms may be required as shown below.





#### FIGURE 3-1: FLOW DIAGRAM TO IDENTIFY WHICH FORMS MUST BE SUBMITTED WHEN APPLYING FOR AN INDIVIDUAL NPDES STORM WATER DISCHARGE PERMIT

authorized NPDES States may be different from the EPA-required forms that are discussed in this manual.

- 3) Determine the track (e.g. individual permit application track, group application track, general permit track, etc.) that the discharger will pursue to comply with application requirements. The options for different tracks are discussed in section 2.5 of this guidance.
- 4) Obtain the appropriate application forms if submitting an individual permit application. Sections 3.2, 3.3, and 3.5 of this guidance manual provide information on permit application forms and requirements. Section 3.6 describes where forms can be obtained.
- 5) Submit the completed application to the appropriate permitting regulatory agency by the application deadline (Section 3.4). Section 3.6 describes where applications are to be submitted.

#### 3.2 Forms 1 And 2F

The requirements for individual permit application for most types of discharges composed of storm water associated with industrial activity are incorporated into Form 1 and Form 2F. (Section 3.3.2 discusses alternative individual permit application requirements for storm water discharges associated with industrial activity from construction activities and Section 3.5 discusses the additional forms necessary where storm water discharges associated with industrial activity are mixed with any non-storm water discharge).

Form 1 (EPA Form 3510-1) requires general information about the facility, including: the name and address of the facility; the facility type (i.e., SIC code); a map showing specified features, etc. See Appendix D.1 for a sample application form with instructions.

<u>Form 2F</u> (EPA Form 3510-2F) contains information which can be used to evaluate the pollution potential of storm water discharges associated with industrial activity, including:

- o a map showing site drainage;
- o an estimate of the area of impervious surfaces and the total area drained by each outfall;
- o a narrative description of material management practices and control measures;
- o a certification that separate storm water outfalls have been tested or evaluated for non-storm water discharges;

- o existing information regarding significant leaks or spills of toxic or hazardous pollutants at the facility that have taken place within the three years prior to the submittal of the application; and
- o sampling data for specified parameters.

See Appendix E.2 for a sample application form with instructions. Section 5.0 provides technical guidance for obtaining or estimating the following information required by Form 2F: preparing a site drainage map, detecting the presence of non-storm water discharges, measuring storm water runoff flow rates and volumes, and sampling equipment and procedures for collecting storm water discharge samples.

#### 3.3 Special Provisions For Selected Discharges

#### 3.3.1 Special Provisions For Small Businesses

Small businesses with storm water discharges associated with industrial activity do not have to analyze storm water discharges associated with industrial activity for the organic toxic pollutants listed in Table 2F-3 of Form 2F. (Small business with storm water discharges associated with industrial activity are subject to the other appropriate requirements of Form 1 and Form 2F, including requirements to sample for specified conventional pollutants and other specified constituents (40 CFR 122.21(g)(8)).

There are two ways in which a facility can qualify as a "small business." If the facility is a coal mine, and if the probable total annual production is less than 100,000 tons per year, past production data or estimated future production (such as a schedule of estimated total production under 30 CFR 79514[c]) may be submitted instead of conducting analyses for the organic toxic pollutants. Facilities that are not a coal mine with gross total annual sales for the most recent three years average less that \$100,000 per year (in second quarter 1980) dollars), may submit sales data for those years instead of conducting analyses for the organic toxic pollutants. The production or sales data must be for the facility which is the source of the discharge. The data should not be limited to production or sales for the process or processes which contribute to the discharge, unless those are the only processes at the facility. For sales data, in situations involving intra-corporate transfer of goods and services, the transfer price per unit should approximate market prices for those goods and services as closely as possible. Sales figures for years after 1980 should be indexed to the second quarter of 1980 by using the gross national product price deflator (second quarter of 1980 = 100). This index is available in National Income and Product Accounts of the United States (Department of Commerce, Bureau of Economic Analysis).

# 3.3.2 Special Provisions For Construction Activities

The application requirements for operators of storm water discharges associated with industrial activity from construction activities include Form 1 and a narrative description of:

- (i) the location (including a map) and the nature of the construction activity;
- (ii) the total area of the site and the area of the site that is expected to undergo excavation during the life of the permit;
- (iii) proposed measures, including best management practices, to control pollutants in storm water discharges during construction, including a brief description of applicable State and local erosion and sediment control requirements;
- (iv)proposed measures to control pollutants in storm water discharges that will occur after construction operations have been completed, including a brief description of applicable State and local storm water management controls;
- (v) an estimate of the runoff coefficient of the site and the increase in impervious area after the construction addressed in the permit application is completed, the nature of fill material and existing data describing the soil or the quality of the discharge; and

(vi)the name of the receiving water.

At this time, EPA has not developed a standardized form for the narrative information accompanying Form 1 that is required in individual applications for storm water discharges associated with industrial activity from construction sites.

# 3.3.3 Mining And Oil And Gas Operations

Several specific regulatory provisions are applicable to storm water discharges associated with industrial activity from mining and oil and gas operations:

(1) Mining operations and Oil and Gas- (40 CFR 122.26(a)(2)): The permitting authority may not require a permit for discharges of storm water runoff from mining operations or oil and gas exploration, production, processing or treatment operations or transmission facilities, composed entirely of flows which are from conveyances or systems of conveyances (including but not limited to pipes, conduits, ditches, and channels) used for collecting and conveying precipitation runoff and which are not contaminated by contact with or that has not come into contact with, any overburden,

raw material, intermediate products, finished product, byproduct or waste products located on the site of such operations.

(2) Oil and gas- (40 CFR 122.26(c)(1)(iii)): The operator of an existing or new discharge composed entirely of storm water from an oil or gas exploration, production, processing, or treatment operation, or transmission facility is not required to submit a permit application, unless the facility:

(A) has had a discharge of storm water resulting in the discharge of a reportable quantity for which notification is or was required pursuant to 40 CFR 117.21 or 40 CFR 302.6 at anytime since November 16, 1987; or

(B) has had a discharge of storm water resulting in the discharge of a reportable quantity for which notification is or was required pursuant to 40 CFR 110.6 at any time since November 16, 1987; or

(C) contributes to a violation of a water quality standard.

#### 3.4 Individual Applications Deadlines

Individual permit applications for storm water discharges associated with industrial activity which are currently not covered by an NPDES permit must be submitted by November 18, 1991.

Operators of discharges which are authorized by an individual NPDES permit must resubmit individual permit applications 180 days prior to the termination of the existing NPDES permit.

Permit applications for a new discharge of storm water associated with industrial activity must be submitted 180 days before that facility commences industrial activity which may result in a discharge of storm water associated with that industrial activity. Permit applications for a new discharge of storm water associated with industrial activity from a construction activity (see subparagraph (x) of the definition in section 2.3 of this document) must be submitted at least 90 days before the date on which construction is to commence. Persons proposing a new discharge are encouraged to submit their application well in advance of the 90 or 180 day requirements to avoid delay.

Where a general permit has been issued, deadlines for submitting a notice of intent (NOI) to be authorized to discharge under the permit are established in the permit.

### 3.5 When Are Additional Forms Required?

Where a storm water discharge associated with industrial activity is mixed with a non-storm water component prior to discharge, an additional application form must be submitted.

A complete permit application for a storm water discharge associated with industrial activity <u>mixed with process wastewater</u>, (process wastewater is water that comes into direct contact with or results from the production or use of any raw material, intermediate product, finished product, byproduct, waste product or wastewater) includes Form 1, Form 2F and Form 2C.

A complete permit application for a storm water discharge associated with industrial activity mixed with <u>new sources or new discharges of non-storm water</u> (non-NPDES permitted discharges commencing after August 13, 1979) includes Form 1, Form 2F and Form 2D.

A complete permit application for a storm water discharge associated with industrial activity mixed with <u>nonprocess wastewater</u> (nonprocess wastewater includes noncontact cooling water and sanitary wastes which are not regulated by effluent guidelines or a new source performance standard, except discharges by educational, medical, or commercial chemical laboratories) includes Form 1, Form 2F and Form 2E.

### 3.6 Where To Obtain And Submit Applications

In States without an authorized NPDES State program, EPA issues all NPDES permits. Where EPA issues permits, permit application forms can be obtained from and submitted to the appropriate EPA Regional office. (See Appendix C.2 for a list of the addresses and telephone numbers of the EPA Regional offices).

In States with authorized NPDES programs, application forms can be obtained from and submitted to the appropriate State office. A list of these States is provided in Appendix C. The permit application forms required by authorized NPDES States may be different from the EPA-required forms that are discussed in this manual.

# 3.7 Signatories

Section X of Form 2F requires that all permit applications must be signed with the following 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."

This certification is to be signed as follows:

(A) For a corporation: by a responsible corporate official. For purposes of this section, a responsible corporate official 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.

EPA does not require specific assignments or delegation of authority to responsible corporate officers. The Agency will presume that these responsible corporate officers have the requisite authority to sign permit applications unless the corporation has notified the Director to the contrary. Corporate procedures governing authority to sign permit applications may provide for assignment or delegation to applicable corporate position rather than to specific individuals.

(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).

# 3.8 Penalties For Knowingly Submitting False Information

The Clean Water Act provides for severe penalties for knowingly submitting false information on application forms. Section 309(c)(4) of the Clean Water Act provides that "Any person who knowingly makes any false material statement, representation, or certification in any application, . . . shall upon conviction, be punished by a fine of not more than \$10,000 or by imprisonment for not more than 2 years or by both. If a conviction of such person is for a violation committed after a first conviction of such person under this paragraph, punishment shall be by a fine of not more than \$20,000 per day of violation, or by imprisonment of not more than 4 years or by both."

# SECTION 4.0 THE PERMITTING PROCESS

The purpose of this section is to provide the applicant with a summary of the process of issuing NPDES permits for storm water discharges associated with industrial activity.

# 4.1 How Are Individual Applications Processed?

Following the submission of the NPDES permit application, the permitting authority reviews the application for completeness. If additional information is required to complete the application, the permitting authority will notify the applicant. The permitting authority will specify a deadline for submitting the additional information. The effective date of the application is the date when the permitting authority determines that the application is complete.

The permitting authority may request additional information beyond what is required in the application form. The permit writer will use available information, primarily that in the permit application, to develop a draft permit or a notice to deny a permit. All draft permits and notices of intent to deny a permit will include a statement of basis or a draft fact sheet. The statement of basis will briefly describe the rationale for either proceeding with issuing a permit or denying a permit. The draft fact sheet will include the principal facts, methodology, and any legal or policy questions considered in the decision to proceed with issuing a permit.

All draft permits and notices of intent to deny a permit are subject to public notice and will be made available for public comment. The permitting agency will give public notice when: (1) a permit application has been tentatively denied, (2) a draft permit is issued, (3) an evidentiary hearing is granted, or (4) when a new source determination has been made.

After the close of the public comment period, the permitting agency will issue a final decision. The permitting agency, upon issuance of the final decision, will respond to comments, identify any changes in the tentative decision (to either permit or deny a permit) and give any reason pertinent to the changes. If a final NPDES permit is issued, the permit usually specifies the effective date, at which time, the facility is legally authorized to discharge storm water associated with an industrial activity subject to the permit conditions. A more complete description of the processes involved in obtaining an NPDES Permit is provided in 40 CFR Part 124, especially Subpart D.

#### 4.2 Completeness Of The Application

Prospective applicants seeking an NPDES permit for storm water related industrial activity can refer to the following list that summarizes the applicant's primary responsibilities (Table 4-1). This application checklist is useful

# Table 4-1. PERMIT APPLICATION CHECKLIST

Acti	on C	hecklist	Date Completed/ Signature of Person Filling out
1.	Determine whether a permit is required for the storm water discharge.		
	0	Refer to Section 3.0 of this manual	
	0	Contact the permitting authority, if necessary	
	0	Record name of contact person	
2.	De dis NI	etermine whether the state in which the scharge(s) is located has an EPA-approved PDES program.	
	0	Refer to Appendix C of this manual	
	0	Determine which forms need to be submitted for individual applications.	
	0	If EPA is the permitting authority, list appropriate forms (Refer to Figure 4-1)	
	0	For EPA-approved states, contact the permitting authority for appropriate forms and instructions	
3.	De be	etermine if a general permit will be, or has en, issued for the discharge.	

Act	ion Checklist	Date Completed/ Signature of Person Filling out
4.	If no general permit, select between participating in a group application or submitting an individual application.	
5.	Determine what the deadlines are for the permit application.	
	o Check Section 4.6 of this manual if EPA is the permitting authority	
	• Contact the state permitting agency if this information is not provided in the application form or instructions provided by that agency	
6.	Complete the appropriate application forms. All applicants are to submit Forms #1 and 2F. Refer to Figure 4-1 to determine if Forms 2C, 2D, and/or 2E need to be submitted.	
7.	Retain a complete copy of the permit application and all supporting documentation.	
8.	Submit the completed application forms to the appropriate permitting agency by the application deadline identified above.	

for the applicant for self-checking the completeness of the application prior to submission. Applications will not be considered complete unless all applicable information required is provided. If an item does not apply, "NA" (for "not applicable") may be entered in the appropriate space. If additional information is required, the applicant will be notified.

#### 4.3 Public Availability Of Submitted Information

Section 402(j) of the Clean Water Act requires that all permit applications will be available to the public. Information in permit applications will be made available to the public upon request. Any information required in a permit application may not be claimed as confidential. Any information submitted to EPA which goes beyond that required by Form 1, Form 2F or other appropriate forms may be claimed as confidential. However, claims for confidentiality of effluent data will be denied.

If a claim of confidentiality is not asserted at the time of submitting the information, EPA may make the information public without further notice to the applicant. Claims of confidentiality will be handled in accordance with EPA's business confidentiality regulations at 40 CFR Part 2.

#### 4.4 How Long Is A Permit Valid?

A permit will be issued by the permitting agency for a period up to, but not more than 5 years. Dischargers must reapply for a permit 180 days before the expiration date of the permit.

The permit is not transferable except after notice to and approval by the permitting authority. The Director of the permitting authority may require modification or revocation and reissuance of the permit to change the name of the permittee and incorporate such other requirements that may be necessary under the CWA.

# 4.5 How Are NPDES Permits Enforced?

The CWA provides that any person who violates a permit condition is subject to a civil penalty not to exceed \$25,000 per day of violation. Any person who willfully or negligently violates a permit is subject to a fine of not less than \$2,500 or more than \$25,000 per day of violation, or imprisonment for not more that 1 year, or both (40 CFR 122.41(a)).

The operator of a facility must allow a representative of the permitting authority upon the presentation of credentials and other documents as may be required by law, to enter the regulated facility and inspect records pertaining to the permit. This includes, but is not limited to, monitoring and control equipment, practices, and operations regulated under this permit. The representative may also sample the storm water discharge for any substance to assure compliance with the permit conditions. Inspection activities are to be conducted at reasonable times (40 CFR 122.41(i)(1) to (4)).

The operator must retain all records of discharge monitoring for at least three years from the date of the sample, measurement, report, or application. This includes all calibration and maintenance records, all original strip charts from continuous monitoring, copies of all records required by the permit, and all records of data used to complete the NPDES permit application 40 CFR 122.41(j)(2).

The CWA provides that any person who knowingly falsifies any record or document, tampers with or renders inaccurate any monitoring device, shall upon conviction be punished by a fine of not more than 10,000 per violation, or by imprisonment for not more than 2 years, or both (40 CFR 122.41(j)(5) and (k)(2)).

Additional penalties for knowingly submitting false information in applications are described in Section 2 of this manual.

# SECTION 5.0 TECHNICAL SUPPORT FOR SPECIFIC ELEMENTS OF THE NPDES PERMIT APPLICATION FORMS

### 5.1 Overview

The instructions provided with Form 2F are expected to be sufficient for most applicants. This section provides additional technical guidance for obtaining information required by Form 2F, including guidance for: developing site maps; identification of outfalls that discharge storm water associated with industrial activity; testing for the presence of non-storm water discharges; estimating storm water runoff flow rates and volumes; and collecting samples.

# 5.2 Site Drainage Map

Section III of Form 2F requires that a site drainage map be attached to the application. The site drainage map must show either topography or a delineation of the drainage area served by each outfall which discharges storm water associated with industrial activity if a topographic base map is not used. The delineation of the drainage area for each outfall that discharges storm water associated with industrial activity, can be based on site observations which identify drainage patterns. Drainage patterns should be shown on the site drainage map so that runoff from each drainage area drains to a separate outfall.

The site drainage map must show the location (and size - approximate for earthen structures) of all drainage conveyances or natural channels that convey or drain storm water off the applicant's property. The map must indicate whether the drainage system receiving the discharge is a natural water body, part of a municipal or non-municipal drainage system, or other system as applicable.

The following information must be provided and recorded on the map where appropriate:

- o Paved areas and buildings at the facility
- Past and present outdoor areas used for storage or disposal of significant materials
- o Hazardous waste treatment, storage or disposal facilities, or accumulation areas (including those not requiring a RCRA permit)
- o Injection wells

- o Material loading and access areas (e.g., loading docks and main truck routes on the facility property)
- o Areas where pesticides, herbicides, soil conditioners, and fertilizers are applied
- o Structural control measures to reduce pollutants in storm water runoff
- o Surface water bodies which receive storm water discharges from the facility

During the preparation of a site drainage map, or the review of an existing one, emphasis should be placed on the identification of all inflow sources to ensure that inappropriate sources of non-storm water entry are not present. The map should identify points of entry to the facility site storm water drain system, including catchbasins, floor drains, and roof leaders.

The site drainage map required in Form 2F should show the location and an identifying number or name for each storm water outfall at the facility.

# 5.3 Identification Of Outfalls To Be Monitored

Form 2F requires that applicants provide quantitative data for samples of storm water discharges associated with industrial activity. If a facility discharges storm water associated with industrial activity to a municipal separate storm sewer, then the facility should sample the storm water from the site prior to discharging to the municipal separate storm sewer. Storm runoff from areas located on plant lands separate from the plant's industrial activities, such as administrative buildings roofs and accompanying parking lots are not defined as storm water associated with industrial activity and hence do not need to be monitored unless the runoff is combined with storm water associated with industrial activity. Figure 5-1 shows several scenarios for storm water outfalls that may or may not need to be monitored as part of a NPDES permit application. 40 CFR 122.21(g)(7) provides that when an applicant has two or more outfalls with substantially identical effluents, the Director may allow the applicant to test only one outfall and report that the quantitative data also apply to substantially identical outfalls.

### 5.4 Evaluation Of The Presence Of Non-storm Water Discharges

Form 2F requires applicants to certify that all outfalls that discharge storm water associated with industrial activity have been tested or evaluated for the presence of non-storm water discharges. Applicants do not have to test for the presence of non-storm water discharges already subject to an NPDES permit. Acceptable procedures include: dry weather observations of outfalls or other appropriate observation locations; the analysis and validation of accurate piping


- Outfall discharges storm water associated with industrial activity (sampling typically required in Form 2F).
- Outfall discharges storm water that is not assoicated with industrial activity (sample typically not required in Form 2F).
- Storm runoff direction

# Figure 5-1. EXAMPLE INDUSTRIAL STORM RUNOFF OUTFALL® WITH STORM WATER DISCHARGE ASSOCIATED WITH INDUSTRIAL ACTIVITY

schematics; dye tests; or other procedures for ensuring that there are no inappropriate connections or discharges to the storm drain system. The permit application requires a description of the method used, the date of testing (if applicable), and the onsite drainage locations observed during the test. Any nonstorm water discharge which is not already identified in a NPDES permit which is detected must be identified in Form 2C (for process wastewater) or Form 2E (for non-process wastewater) which must accompany the storm water discharge application (Form 1 and Form 2F).

The following sections provide a description of several procedures that can be used in developing a certification and an overview of the applicability of the tests and the resources required for performing the tests. A first step should be to identify potential sources of non-storm water at the facility and to focus on those places.

## 5.4.1 Visual Inspection of Storm Drain at Manhole Inlet or Outfall Description

A visual inspection of the system conducted during dry weather, can be an effective method of locating illicit connections to the storm drain system. The observation should be made during normal business hours when sources of nonstorm water are typically operating. A record should be kept of all observed flows and any stains, sludges, or other abnormal conditions observed. Where flows are observed, additional analysis, such as dye testing (described below) may be necessary to identify the source of the flows.

Applicability: This method is applicable to any industrial site with a storm drain system where an outfall or other location (e.g. manhole) down gradient from potential non-storm water discharges can be observed.

**Resources:** No special equipment is required.

## 5.4.2 Review and Validation of Piping Schematics Description

A careful review of piping schematic drawings for industrial sites can identify the intended routing of flows from particular areas or drains. This review should be accompanied by visual inspection to compare the "as built" condition to the plans and to determine whether any unrecorded piping modifications have been made.

**Applicability:** This method is most applicable for industrial sites which have large or elaborate piping arrangements, usually recorded on schematic piping drawings. It is most applicable in conjunction with use of the other techniques described below.

**Resources:** No special equipment is required, though dye tests may be useful in specific situations to clarify discrepancies which cannot be resolved visually.

#### 5.4.3 Dye Tests Description

Dye tests are used to determine whether a particular inlet or fixture discharges non-storm water to the storm drain. A quantity of dye is released at the selected location while an observer watches for the dye at a downstream location. If the inlet is discharging to the storm drain, the dye will be detected at the downstream location. Dye doses should be sufficiently large so that the dye at the downstream location is visible to the naked eye.

Applicability: Dye tests are most effective for determining if an identified drain or catchbasin is connected to the storm sewer where the outfall of the storm sewer is submerged, but the receiving water can be observed. (Where the outfall or other point can be observed and is not submerged, dry weather observation can be made or water can be used instead of a dye). Dye tests can also be used where dry weather flows have been observed, but the source of the flow has not yet been observed. It is best used when there are only a limited number of possible sources of non-storm water to the storm drain that need to be investigated.

**Resources:** No special equipment is necessary to conduct a dye test. Dye is the only material required. Effective dyes that are safe and harmless are available in powder, tablet, or liquid form. A 20% solution of Rhodamine (liquid) costs about \$15/lb. Dye can be purchased in 2-1/2 gallon containers which weigh 25 pounds and cost about \$400. This can be diluted before each test by an approximate ratio of 10 to 1. A minimum field crew of two is needed, one to apply the dye, the other to observe the storm drain.

#### 5.4.4 TV Line Surveys Description

TV surveys are conducted with a mobile closed-circuit television system consisting of a monitor screen, camera, drag lines, and reels and cables that allow the camera to be guided through a section of pipeline. The TV picture allows a visual inspection of the interior of the drain pipe and can be used for pipelines with diameters that range from 4 inches to approximately 48 inches. Television inspection of a storm drain provides positive information (and a documented record) of the interior of the pipelines. All inlets to the line can be identified and located. Systems for conducting TV surveys can be purchased, leased, or rented. Alternatively, a firm which specializes in this work can be hired.

Applicability: TV surveys may serve as useful tools where an initial survey identifies a non-storm water discharge and the operator is having difficulty in finding the source. A TV survey can locate entry points to the storm drain system, determine whether or not there is flow in them, and permit estimates of the flow to be made. However, in many cases, these observations will need to be supplemented by other methods to identify the specific source (above ground) of the connection. This may be accomplished by inspection of drain maps, dye tests, or possibly smoke tests.

**Resources:** Resources required for a TV survey of storm drains include the following:

- o TV camera
- o TV monitor and VCR to record survey
- o Rig consisting of video cables, tow lines, and related equipment for properly guiding the camera in the line at a controlled rate, recording distance moved, and withdrawing the camera from the pipeline

The cost to conduct a TV survey can range from \$1 to \$3 per foot of storm sewer. For small surveys costs could vary from \$125 to \$200 per hour, including labor and rental of the necessary equipment. However, this cost can increase significantly if the storm sewer must be cleaned of debris prior to conducting the TV survey. On average, approximately 1000 feet of sewer can be inspected in a day. In a clean sewer, up to 2000 feet can be inspected.

The applicant should refer to "Operation and Maintenance of Wastewater Collection Systems" (CSU 1983) or similar appropriate reference documents for a detailed description of these test methods.

#### 5.5 Estimates Of Discharge Flow Rates And Volumes

Form 2F requires applicants to provide quantitative data based on samples collected during storm event(s). One set of parameters that must be provided for such storm event(s) are flow estimates or flow measurements, and an estimate of the total volume of the discharge. The method of flow estimation or measurement must be described in the application.

EPA intends that applicants need only provide rough estimates of flows in Form 2F. The following section discusses methods for obtaining the required information. Section 5.5.1 presents a method for approximating flows and volumes which does not require flow velocity measurements. The following subsections discuss other methods that require measurements of flow velocities.

#### 5.5.1 Estimating Flows and Volumes

Runoff flow rates and volumes can be estimated by using the total rainfall amount for the storm event and estimated runoff coefficients for the facility. Runoff coefficients represent the fraction of total rainfall that will be transmitted as runoff from the facility. As such, the coefficients reflect the ground surface or cover material. To estimate runoff volume and rates, it can be assumed that paved areas and other impervious structures such as roofs have a runoff coefficient of 0.90 and, therefore, 90% of the rainfall is conveyed from the facility as runoff. For unpaved surfaces, it can be assumed that the runoff coefficient is about 0.50. The total volume of discharge for the event is then estimated by:

total runoff volume (cubic ft) = total rainfall (ft) x [facility paved area x 0.90 + facility unpaved area x 0.50]

The facility areas used in this calculation should be in units of square feet and should include only those areas drained by the outfall sampled. To estimate an average flow rate, divide the volume by the duration of the rainfall event. If desired, a more accurate estimate can be made by using more specific runoff coefficients for different parts of the facility based on the type of ground cover (Chow 1964 contains various runoff coefficients and discusses their use).

#### 5.5.2 Flow Rate Measurements

There are a variety of techniques for measuring or estimating flow rates. Flow measuring devices based on pipe invert sections (e.g., flumes, weirs, and others) are commercially available. For locations that may be used for routine monitoring in the future, the applicant may consider installing these types of devices for ease in future measurements. The installed cost of a weir, for example, typically ranges from about \$1,000 to \$5,000. Once installed, the weir must be calibrated so that future measurements of stage (i.e., depth of flow) can be converted directly to flow volumes. The installation and calibration of such devices should be performed by experienced personnel.

To estimate flow rates in units of volume per time such as cubic feet per second, information on flow velocities and depth of flow are required. The remainder of this section discusses methods for collecting these data.

Flow rate estimates may also be obtained by measuring depth of flow and velocity in a pipe of known diameter or other conveyance structure at frequent intervals during a storm runoff event. For a pipe or other structure of known size, the cross-sectional area of flow can be calculated for any depth of flow using geometric relationships. Flow velocities can be measured by using suitable units (e.g., propeller operated devices) attached to a portable current meter. Flow velocity measurements should be obtained from representative locations throughout the flow cross-section. Such units are commercially available at costs ranging from about \$1,000 to \$3,000. While these devices may be fairly expensive, they are easy to use and they provide accurate data if used properly.

Flow velocities can be estimated using simpler methods, such as measuring the time of passage of an object (e.g., an orange) between two points a known distance apart (e.g., manholes). Facility operators who are more familiar with measuring flows in pipes or open channels may use the Chezy-Manning equation, for example, to calculate flow velocities:

$$v = \frac{2/3}{n} (r_{H}) (S^{\frac{1}{2}})$$

where:v = velocity [ft/s]

n = Manning roughness constant

 $r_{H}$  = hydraulic radius [ft]

S = slope of the energy line [ft/ft]

A complete discussion of the use of this equation, other appropriate equations, and the identified parameters can be found in most fluid mechanics references (e.g., Chow, 1964).

## 5.5.3 Estimation of Flow Rates Based on Flow Velocity Measurements

If the measurements of flow depth are recorded and converted to crosssectional areas (in square feet), and the corresponding velocities for each depth are recorded (in feet per minute), then the flow rate (Q) in cubic feet per minute (cfm) is:

Q = (area)(velocity)

The maximum flow rate is the highest value recorded during the storm event. The time-weighted average flow rate for the storm event can be estimated by the average of the individual values recorded.

#### 5.5.4 Estimation of Volumes Based on Flow Rate Estimates

The total volume of discharge can be estimated by first multiplying each of the flow rates determined above by a time interval that represents the portion of the total storm duration associated with the measurement, and then adding all such partial volumes. If the time intervals used are seconds, then the total flow of runoff will be in units of cubic feet.

A procedure for calculating the total runoff volume from a set of discrete measurements of flow depth and velocity during a storm runoff event is discussed below and presented in Table 5-1. The basic steps for calculating this information are as follows:

Step 1: Measure and tabulate flow depths and velocities every 20 minutes during at least the first 3 hours of the runoff event.

- Step 2: Calculate and tabulate the cross-sectional area of flow for each of the flow depths measured. Calculate the flow rate (Q) for each discrete set of flow rate and flow velocity measurements. Q = (area)(velocity).
- Step 3: Plot flow rate, Q versus time as shown in Table 5-1.
- Step 4: Assign each flow rate measurement a duration equal to the sum of 1/2 the time interval between the preceding and succeeding measurements. In the ideal case of uniform 20 minute intervals, the durations are  $[(20)\frac{1}{2} + (20)\frac{1}{2} = 20 \text{ minutes}]$ .
- Step 5: Compute the flow volume associated with each observation  $(V_1, V_2, ..., V_9)$  by multiplying the measured flow rate by the duration (in this case, 20 minutes). Be sure the units are consistent. For example, if durations are in minutes and flow velocities are in cubic feet per second (cfs), convert the durations to seconds or the velocities to feet per minute.

Volume (V) = Flow Rate (cfm) x Duration (minutes)

Step 6: The beginning volume can be approximated by assuming that the flow rate is zero at time zero and increases linearly to the first calculated flow rate  $(Q_1)$  at 20 minutes (see Table 5-1).

The final volume can be approximated similarly by assuming that flow drops uniformly from the last calculated flow rate  $(Q_9)$  to zero at the time when  $Q_{10}$  would have been taken.

Step 7: Total the individual volumes calculated in Step 5 with the initial and final volume approximations calculated in Step 6 to obtain the total runoff volume.

Table 5-1. Example Calculation of the Total Runoff Flow Volume from Field Data

Station:	OUTFALL-1
Date:	7-20-90

Step 1: Measure or estimate the following data

TIME (minutes)	FLOW VELOCITY (feet per minute)	FLOW DEPTH (feet)
0	-	•
20	4	0.2
40	8	0.4
60	10	0.5
80	8	0.4
100	4	0.2
120	6	0.3
140	4	0.2
160	2	0.1
180	4	0.2

- Step 2: Convert flow depths to area of flow based on the geometry of the conveyance structure and calculate flow rates, Q (cubic feet per minute cfm). Q = (area)(velocity)
- Step 3: Plot flow rate Q versus time





Assign a time duration to each flow rate



Table 5-1. Example Calculation of the Total Runoff Flow Volume from Field Data (concluded)

Step 5: Calculate individual flow volume	tep 5:	Calculate	individual	flow	volume
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Volume	(V) =	Flow Rate (C	2) x	Time				
$\mathbf{v}_1$	=	10 cfm	x	20 min	=	200	cubic	feet
$v_2$	=	20 cfm	x	20 min	3	400	cubic	feet
V <sub>3</sub>	2	25 cfm	x	20 min	3	500	cubic	feet
V4	=	20 cfm	x	20 min	3	400	cubic	feet
V5	=	10 cfm	x	20 min	=	200	cubic	feet
V <sub>6</sub>	=	15 cfm	x	20 min	3	300	cubic	feet
$V_7$	2	10 cfm	x	20 min	1	200	cubic	feet
V8	=	5 cfm	x	20 min	=	100	cubic	feet
V9	=	10 cfm	x	20 min	=	200	cubic	feet
	Volume V1 V2 V3 V4 V5 V6 V7 V8 V9	Volume $(V) = V_1 = V_2 = V_3 = V_3 = V_4 = V_5 = V_6 = V_7 = V_8 = V_9 = V_9 = V_9$	Volume (V) = Flow Rate (C $V_1$ =       10 cfm $V_2$ =       20 cfm $V_3$ =       25 cfm $V_4$ =       20 cfm $V_5$ =       10 cfm $V_6$ =       15 cfm $V_7$ =       10 cfm $V_8$ =       5 cfm $V_9$ =       10 cfm	Volume $(V)$ = Flow Rate $(Q)$ x $V_1$ =10 cfm $V_2$ =20 cfm $V_3$ =25 cfm $V_4$ =20 cfm $V_5$ =10 cfm $V_6$ =15 cfm $V_7$ =10 cfm $V_8$ =5 cfm $V_9$ =10 cfm	Volume $(V)$ = Flow Rate $(Q)$ xTime $V_1$ =10 cfmx20 min $V_2$ =20 cfmx20 min $V_3$ =25 cfmx20 min $V_4$ =20 cfmx20 min $V_5$ =10 cfmx20 min $V_6$ =15 cfmx20 min $V_7$ =10 cfmx20 min $V_8$ =5 cfmx20 min $V_9$ =10 cfmx20 min	Volume (V)= Flow Rate (Q) xTime $V_1$ =10 cfmx20 min= $V_2$ =20 cfmx20 min= $V_3$ =25 cfmx20 min= $V_4$ =20 cfmx20 min= $V_5$ =10 cfmx20 min= $V_6$ =15 cfmx20 min= $V_7$ =10 cfmx20 min= $V_8$ =5 cfmx20 min= $V_9$ =10 cfmx20 min=	Volume (V)= Flow Rate (Q) xTime $V_1$ =10 cfmx20 min=200 $V_2$ =20 cfmx20 min=400 $V_3$ =25 cfmx20 min=500 $V_4$ =20 cfmx20 min=400 $V_5$ =10 cfmx20 min=400 $V_6$ =15 cfmx20 min=200 $V_6$ =15 cfmx20 min=300 $V_7$ =10 cfmx20 min=200 $V_8$ =5 cfmx20 min=100 $V_9$ =10 cfmx20 min=200	Volume $(V)$ = Flow Rate $(Q)$ xTime $V_1$ =10 cfmx20 min=200 cubic $V_2$ =20 cfmx20 min=400 cubic $V_3$ =25 cfmx20 min=500 cubic $V_4$ =20 cfmx20 min=400 cubic $V_5$ =10 cfmx20 min=200 cubic $V_6$ =15 cfmx20 min=300 cubic $V_7$ =10 cfmx20 min=200 cubic $V_8$ =5 cfmx20 min=100 cubic $V_9$ =10 cfmx20 min=200 cubic

Step 6: Calculate the initial and final volumes



Step 7: Total the partial volumes calculated in steps 5 and 6 Total storm runoff = 2,550 cubic feet

#### 5.6 Collecting Storm Water Discharge Samples

This section provides guidance for collecting grab samples, flow-weighted composite samples, and identifying the constituents or parameters that must be monitored. Section VII of Form 2F requires that specific pollutants in storm water discharges be measured and reported as concentrations and as total mass. At least one representative storm event must be sampled to collect this information. If samples from more than one storm are analyzed and the results are representative of the discharge, the results must be reported in Section VII of Form 2F.

A representative storm is a storm that is "typical" for the area in terms of intensity, volume, and duration. The storm must have a volume greater than 0.1 inch, must be preceded by at least 72 hours of dry weather, and should not vary by more than 50% from the average rainfall volume and duration.

A representative storm event must be sampled to provide water quality data for the initial runoff period (i.e., a grab sample to measure first-flush effects). A flow-weighted composite sample must also be collected and analyzed separately from the grab sample to provide an estimate of the average runoff water quality for the storm event. Data from samples analyzed in the past may be used, provided that:

- o All data requirements in Form 2F are met;
- o Sampling was done no more than three years before submission of the permit application; and
- o All water quality data are representative of the present discharge.

Among the factors which would cause the data to be unrepresentative are significant changes in production level, changes in raw materials, processes, or final products, and significant changes in storm water management activities.

Grab samples and flow-weighted composite samples must be collected and analyzed from each of the storm runoff outfalls identified on the site drainage map in Section III of Form 2F. However, if an applicant has two or more substantially identical outfalls, they may request permission from the permitting authority to sample and analyze only one outfall and submit the results of the analysis for the other substantially identical outfalls. Substantially identical outfalls are those from drainage areas undergoing similar activities where the discharges are expected to be of similar water quality. If the request is granted, identify which outfall was tested and describe why the outfalls which were not tested are substantially identical. Provide this information on a separate sheet attached to the application form.

#### 5.6.1 Grab Samples

A grab sample must be collected during the first 30 minutes of the runoff (or as soon thereafter as practicable). The sample collected should be large enough for all of the laboratory analyses to be performed, but at least 100 milliliters (ml). Grab samples are typically collected by filling the sample container just below the water surface in the flow channel. Extension rods or cables can be used to reach inaccessible locations. The grab sample should be collected from near the center of the flow channel, where turbulence is at a maximum (and therefore the storm runoff is well mixed), or at a site specified in an existing permit, or at any site adequate for the collection of a sample that would be representative of the storm water quality.

All samples must be properly handled (i.e., holding time prior to analysis, storage temperature, preservation methods) and analyzed by the methods contained in 40 CFR Part 136. Most commercial laboratories will be familiar with these requirements and can provide information on appropriate handling procedures. Quality assurance/quality control (QA/QC) methods must be implemented both in the field by the applicant and in the lab to ensure the accuracy and validity of the analytical results. Most labs can assist applicants in designing a field QA/QC program and will also provide sample containers that are suitable (e.g., container material, type, and size) to the analysis to be performed. The labs will also typically report to the applicant the results of their internal QA/QC upon request.

If an analytical method is not listed in 40 CFR 136 for a particular pollutant, then the applicant may use any suitable method for measuring the level of the pollutant in the discharge provided that the applicant submits a description of the method or a reference to a published method. The description should include the sample holding time, preservation methods, and the quality control measures used.

The parameters pH and temperature are time-dependent and must be measured in the field at the time of sample collection rather than in the laboratory.

#### 5.6.2 Flow-Weighted Composite Samples

A flow-weighted composite sample is a single sample intended to provide the average water quality for the entire runoff event. Because this type of sample accounts for variations in flow that occur during an event, water quality data from a flow-weighted composite sample is considered to be more representative of the average runoff quality for other methods such as a time-weighted composite.

A flow-weighted composite sample can be collected during either the entire runoff event (which may be less than 3 hours) or during at least the first 3 hours of the runoff. The sample can be collected using either automatic sampling equipment or by manually collecting and combining a series of discrete grab samples (aliquots) in an appropriate manner. In either case, appropriate procedures must be followed to obtain a sample for analysis that is flow-weighted, and hence will provide an indication of the average (or event mean) concentration for the storm runoff event.

Manually Collected Samples: A manually collected composite flowweighted sample can be prepared by the following procedures. Collect samples of the same size (at least 100 ml and preferably 1000 ml) at regular intervals during the duration of the entire runoff event or for at least the first 3 hours of the event. Samples should be collected every 20 minutes to meet the requirement of at least 15 minutes between sample collection times. Storm runoff flow rates and flow cross-sectional areas in the conveyance should be estimated (see Section 5.5) each time an individual sample is taken. Relative flow rates rather than actual flow rates can be used. Where flow rates are estimated based on runoff coefficients, then the amount of rainfall during a given time period should be measured or estimated, and discharge flow rates assumed to be proportional to the amount of rainfall occurring during a given interval. Remove a portion (or aliquot) from each of the individual samples that is proportional to the flow rate for that time interval (there should be at least nine individual samples--i.e., three samples collected each hour during the first 3 hours of runoff) and combine them in the container that will be sent to the laboratory for analysis. Only the composite sample needs to be sent to the laboratory for analysis. The actual amount taken from each of the individual samples should be in proportion to the flow rate or volume of flow associated with that sample.

The procedure for combining aliquots of individual samples to form a flow-weighted composite sample is described below by example and shown in Table 5-2. The example is the same as that discussed in Section 5.5 and shown in Table 5-1. In the example shown in Table 5-2, the minimum number of nine samples were collected for use in preparing the composite sample. Because a grab sample must also be collected within the first 20 minutes of the runoff, two separate samples should be collected. One of the grab samples will be analyzed separately, while the second grab sample will be available for use in preparing the flow-weighted composite sample. Note that 40 CFR 122.21(g)(7) provides that quantitative data from grab samples, rather than flow-weighted samples, be provided for pH, temperature, cyanide, total phenols, residual chlorine, oil and grease, fecal coliform, and fecal streptococcus.

Other methods can be used for collecting flow-weighted composite samples, including the following four methods taken from EPA's <u>NPDES</u> Compliance Sampling Inspection Manual, MCD-51.

a) Constant time interval between samples, sample volume proportional to flow rate at time of sampling;

- b) Constant time interval between samples, sample volume proportional to total flow (volume) since last sample. For the first sample, the flow rate at the time the sample was collected may be used;
- c) Constant sample volume, time interval between samples proportional to flow (i.e., sample taken every "X" gallons of flow); and
- d) Continuous collection of sample, with sample collection rate proportional to flow rate.

A different amount of each of the nine individual aliquots is used so that they are combined in proportion to the volume of runoff they represent. In the case of uniform time intervals between samples, the sample portions can be based on the measured flow rate associated with each sample rather than on the flow volumes calculated from each flow rate. For uniform time intervals, both flow rates (Q) and flow volumes (V) will result in the same aliquot proportions used to prepare the composite. The procedures are as follows:

- 1. For the sample that was collected at the highest flow rate (or volume), add the full sample volume (e.g., 1000 ml) to the composite sample container. The other eight samples will provide smaller amounts.
- 2. For each of the other samples, take an amount that is proportional to the largest flow rate. In other words, the amount of the individual samples used will be a simple ratio of the measured flow rates:

Sample X (ml) =	$Q_x$ (cfs)			
	Q <sub>max</sub> (cfs)			

Station: OUTFALL-1

### Date: 7-20-90

Step 1: Tabulate flow rates (if a constant time duration was used) or flow volumes (if a non-constant time duration was used)

Sample	Flow Rate (cfm)
1	10
2	20
3	25
4	20
5	10
6	15
7	10
8	5
9	10

Step 2: Calculate proportions of individual samples to be used in preparing the composite sample

Sample X (ml) = [Sample MAX (ml)]	Q <sub>x</sub> (cfs)
	Q <sub>max</sub> (cfs)

Note: Sample 3 is  $Q_{max}$  (25 cfm)

Sample 1 = Sample 3 x 10/25 = 0.40Sample 2 = Sample 3 x 20/25 = 0.80Sample 3 = = 1.0 Sample 4 = Sample 3 x 20/25 = 0.80Sample 5 = Sample 3 x 10/25 = 0.40Sample 6 = Sample 3 x 15/25 = 0.30Sample 7 = Sample 3 x 10/25 = 0.40Sample 8 = Sample 3 x 5/25 = 0.20Sample 9 = Sample 3 x 10/25 = 0.40 Step 3: Use a convenient volume from the sample corresponding to the largest flow rate (Sample 3) and corresponding amounts from the other samples

Note: The final volume of the composite sample must be large enough so that all of the appropriate analyses can be performed. The analytical laboratory should be consulted prior to sample collection. The amount of Sample 3 used in this sample is 1000 ml.

Remaining amounts used:

Sample 1: 400 ml Sample 2: 800 ml Sample 4: 800 ml Sample 5: 400 ml Sample 6: 300 ml Sample 7: 400 ml Sample 8: 200 ml Sample 9: 400 ml

Therefore, the total sample volume is 4,700 ml (i.e., 4.7 liters or about 1.2 gallons)

In the example shown in Table 5-2, Sample 3 had the highest flow rate ( $Q_3 = 25$  cfm). Assume that 1000 ml of this sample was added to the composite container. Then the amount of Sample 1 to add to the composite, assuming that flow rate  $Q_1 = 10$  cfm, is:

Sample 1 (ml) = [Sample 3 (in ml)] x Q<sub>1</sub> (cfs) Q<sub>3</sub> (cfs) = (1000 ml) x 10 (cfs) 25 (cfs)

3. Repeat this process for each discrete sample to produce a flowweighted composite sample for laboratory analysis. As shown in Table 5-2, the total composite sample volume is 4,700 ml.

The personnel collecting the individual samples and preparing the composite sample should contact the analytical laboratory personnel to ensure that a large enough sample is submitted. Based on the analyses to be performed on the composite sample, the laboratory personnel can require a minimum sample size.

As illustrated in the example, the computation is simplified when the time interval between the samples is uniform. When there are different time intervals between samples, the procedure is only slightly more complicated. In this case, the individual sample volumes used should be based on the runoff volume (calculated from the individual flow rates and durations) associated with the sample, as opposed to simply the storm flow rate associated with each sample.

Automatic Samplers: Automatic samplers are labor-saving devices but are fairly expensive to purchase. The samplers consist of an intake device set in the channel which is attached by tubing to a pump that can draw a sample from the storm drain into a sample bottle. However, in order for the sample obtained to be flow-weighted composite, the automatic sampler must be triggered by the flow sensing device. Samples of fixed volume are collected each time the flow sensing device indicates that a specified quantity of flow has passed the sample point.

An appropriate flow sensing device, coupled to the automatic sampler is necessary for the automatic system to produce a flow-weighted composite. If the monitoring equipment does not employ such a coupled system, then the automatic sampler merely serves as a mechanical means for withdrawing the sample (usually at fixed time intervals). The guidance given above for properly combining manually collected samples to obtain a flow-weighted composite will apply in this case.

Automatic samplers generally range in price from about \$8,000 to \$16,000 for equipment costs alone. Units with telemetry are in the upper end of this range. The equipment included with a standard unit includes a fabricated weir, an automatic sampler with silica sample containers, software to control the remote computer data logger, housing for unit, thermistor, and pressure sensor. The installation and flow rating of a unit will cost approximately \$6,000 to \$8,000 depending on whether the unit is installed in a manhole, open culvert or channel, or stream. Digital doppler velocity sensors can also be purchased and installed. Such units would replace the weir, data logger, and pressure sensor identified above.

#### 5.6.3 Pollutants to Be Analyzed

Section VII of Form 2F requires that several common pollutants must be analyzed for in both the grab sample and the flow-weighted composite sample while additional analyses are dependent upon existing NPDES permit conditions or whether the discharger has reason to believe other pollutants may be present in the storm runoff discharge. A separate table should be completed for each outfall. Note that 40 CFR 122.21(g)(7) provides that rather than using a flowweighted sample for quantitative data for pH, temperature, cyanide, total phenols, residual chlorine, oil and grease, fecal coliform, and fecal streptococcus, a grab sample must be used.

Part A of Section VII requires that both grab samples and flow-weighted composite samples be analyzed for:

Biological oxygen demand (BOD<sub>5</sub>) Chemical oxygen demand (COD) Total suspended solids (TSS) Total Kjeldahl Nitrogen (TKN) Nitrate plus nitrite nitrogen Total phosphorus

In addition, grab samples must be analyzed for pH.

Part B of Section VII requires that each pollutant limited in an effluent guideline which the facility is subject to or any pollutant listed in the facility's NPDES permit for its process wastewater (if the facility is operating under an existing permit) be analyzed for and reported separately for each outfall in Part B.

Part C of Section VII requires the listing of any pollutant shown in Tables 2F-2, 2F-3, and 2F-4 that the discharger knows or has reason to believe is present

in the discharge and was not already identified above (see Form 2F in Appendix D for these three tables).

Table 2F-2 includes conventional and non-conventional pollutants. For any pollutant from this table listed in Part C, the applicant is required to either report quantitative data or briefly describe the reason the pollutant is expected to be discharged.

Table 2F-3 lists toxic pollutants. For every pollutant listed in Table 2F-3 that is expected to be discharged in concentrations of 10 parts per billion (ppb) or greater, the applicant is required to submit quantitative data. For acrolein; acrylonitrile; 2,4 dinitrophenol; and 2-methyl-4, 6 dinitrophenol the applicant must submit quantitative data if these four pollutants (collectively) are expected to be discharged in concentrations of 100 ppb or greater. For every other pollutant listed in Table 2F-3 that is expected to be discharged in concentrations less than 10 ppb (or 100 ppb total for the four pollutants listed above), then the applicant must either submit quantitative data or briefly describe the reasons the pollutant is expected to be discharged.

Table 2F-4 lists hazardous substances. For each outfall, the applicant must list any pollutant from Table 2F-4 that is known or believed to be present in the discharge and explain why they believe it to be present. No analysis is required, but if the applicant has analytical data, it must be reported.

Under 40 CFR 117.12(a)(2), certain discharges of hazardous substances (listed in 40 CFR 177.21 or 40 CFR 302.4) may be exempted from the requirements of Section 311 of the CWA, which establishes reporting requirements, civil penalties, and liability for cleanup costs for spills of oil and hazardous substances. A discharge of a particular substance may be exempted if the origin, source, and amounts of the discharged substances are identified in the NPDES permit application or in the permit, if the permit contains a requirement for treatment of the discharge, and if the treatment is in place. To apply for an exclusion of the discharge of any hazardous substance from the requirements of Section 311, attach additional sheets of paper to the form and provide for the following information:

- 1. The substance and the amount of each substance which may be discharged.
- 2. The origin and source of the discharge of the substance.

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

See 40 CFR 117.12(a)(2) and (c), published on August 29, 1979, in 44 Federal Register (FR) 50766 for further information on exclusions from Section 311 of the CWA.

## 5.6.4 Reporting

All sampling data obtained for the purpose of completing Section VII of Form 2F must be reported as concentration and as total mass. The applicant may report some or all of the required data by attaching separate sheets of paper instead of filling out pages VII-1 and VII-2 if the separate sheets contain all the required information in a format which is consistent with pages VII-1 and VII-2 in spacing and in identification of pollutants and columns. Use the following abbreviations in the columns headed "Units."

ppm = parts per million
mg/l = milligrams per liter
ppb = parts per billion
ug/l = micrograms per liter
lbs = pounds
ton = tons (English tons)
mg = milligrams
g = grams
T = tonnes (metric tons)
kg = kilograms

All reporting of values for metals must be in terms of "total recoverable metal" unless:

- (i) An applicable promulgated effluent limitation or standard specifies the limitation for the metal in dissolved, valent, or total form
- (ii) All approved analytical methods for the metal measure only its dissolved form (e.g., hexavalent chromium)

(iii) The permitting authority has determined that in establishing caseby-case limitations it is necessary to express the limitations on the metal in dissolved, valent, or total form to carry out the provisions of the CWA.

If only one grab sample and one flow-weighted composite sample is collected and analyzed for a given outfall, complete only the "Maximum Values" columns and insert "1" into the "Number of Storm Events Sampled" column.

To calculate total mass from the water quality analyses, multiply the concentration reported by the lab by the flow volume associated with the sample. For the grab samples collected within 30 minutes of the storm runoff, the concentrations of the individual pollutants should all be multiplied by the flow volume calculated in Step 5 shown in Table 5-1. Care must be exercised to ensure that consistent units are used. For the flow-weighted composite sample, the concentrations of the individual pollutants should all by multiplied by the total runoff volume calculated in Step 7 of Table 5-1.

- California State University, Sacramento, Department of Civil Engineering. 1983. Operation and Maintenance of Wastewater Collection Systems. A field training program for EPA, Office of Water Programs Operations.
- Chow, V.T. 1964. Handbook of Applied Hydrology. McGraw-Hill, Inc. New York. 1418 p.
- Shelly, P.E. 1979. Monitoring Requirements, Methods, and Costs for the Nationwide Urban Runoff Program (NURP). EPA-600/9-76-014.
- U.S. Environmental Protection Agency, Office of Water, Nonpoint Source Division. Methodology for Analysis of Detention Basins for control of urban Runoff Quality. Prepared by Woodward-Clyde Consultants. September 1986.
- U.S. Executive Office of the President, Office of Management and Budget. 1987. Standard Industrial Classification Manual.
- U.S. Environmental Protection Agency, Office of Water. NPDES Compliance Inspection Manual, May 1988. MCD-51.

#### APPENDIX A: SELECTED TEXT FROM 40 CFR SECTION 122.26

Section 122.26(a) Storm water discharges (applicable to State NPDES programs, see § 123.25). (a) Permit requirement. (1) Prior to October 1, 1992, discharges composed entirely of storm

water shall not be required to obtain a NPDES permit except:

(i) a discharge with respect to which a permit has been issued prior to February 4, 1987;

(ii) A discharge associated with industrial activity (see 122.26(a)(4));

(iii) A discharge from a large municipal separate storm sewer system;

(iv) A discharge from a medium municipal separate storm sewer system;

(v) A discharge which the Director, or in States with approved NPDES programs, either the Director or the EPA Regional Administrator, determines to contribute to a violation of a water quality standard or is a significant contributor of pollutants to waters of the United States. This designation may include a discharge from any conveyance or system of conveyances used for collecting and conveying storm water runoff or a system of discharges from municipal separate storm sewers, except for those discharges from conveyances which do not require a permit under paragraph (2) of this subsection or agricultural storm water runoff which is exempted from the definition of point source at 122.2.

The Director may designate discharges from municipal separate storm sewers on a system-wide or jurisdiction-wide basis. In making this determination the Director may consider the following factors:

(A) The location of the discharge with respect to waters of the United States as defined at 40 CFR 122.2.

(B) The size of the discharge;

(C) The quantity and nature of the pollutants discharged to waters of the United States; and

(D) Other relevant factors.

(2) The Director may not require a permit for discharges of storm water runoff from mining operations or oil and gas exploration, production, processing or treatment operations or transmission facilities, composed entirely of flows which are from conveyances or systems of conveyances (including but not limited to pipes, conduits, ditches, and channels) used for collecting and conveying precipitation runoff and which are not contaminated by contact with or that has not come into contact with, any overburden, raw material, intermediate products, finished product, byproduct or waste products located on the site of such operations.

(3) Large and Medium Municipal Separate Storm Sewer Systems. (i) Permits must be obtained for all discharges from large and medium municipal separate storm sewer systems.

(ii) The Director may either issue one system-wide permit covering all discharges from municipal separate storm sewers within a large or medium municipal storm sewer system or issue distinct permits for appropriate categories of discharges within a large or medium municipal separate storm sewer system including, but not limited to: all discharges owned or operated by the same municipality; located within the same jurisdiction; all discharges within a system that discharge to the same watershed; discharges within a system that are similar in nature; or for individual discharges from municipal separate storm sewers within the system.

(iii) The operator of a discharge from a municipal separate storm sewer which is part of a large or medium municipal separate storm sewer system must either:

(A) participate in a permit application (to be a permittee or a co-permittee) with one or more other operators of discharges from the large or medium municipal storm sewer system which covers all, or a portion of all, discharges from the municipal separate storm sewer system;

(B) submit a distinct permit application which only covers discharges from the municipal separate storm sewers for which the operator is responsible; or

(C) a regional authority may be responsible for submitting a permit application under the following guidelines:

(1) the regional authority together with co-applicants shall have authority over a storm water management program that is in existence, or shall be in existence at the time Part 1 of the application is due;

(2) the permit applicant or co-applicants shall establish their ability to make a timely submission of Part 1 and Part 2 of the municipal application;

(3) each of the operators of municipal separate storm sewer within the systems described in paragraphs 122.26(b)(4)(i), (ii), and (iii) or (b)(7)(i), (ii), and (iii), that are under the purview of the designated regional authority, shall comply with the application requirements of paragraph 122.26(d).

(iv) One permit application may be submitted for all or a portion of all municipal separate storm sewers within adjacent or interconnected large or medium municipal separate storm sewer systems. The Director may issue one system-wide permit covering all, or a portion of all municipal separate storm sewers in adjacent or interconnected large or medium municipal separate storm sewer systems.

(v) Permits for all or a portion of all discharges from large or medium municipal separate storm sewer systems that are issued on a system-wide, jurisdiction-wide, watershed or other basis may specify different conditions relating to different discharges covered by the permit, including different management programs for different drainage areas which contribute storm water to the system.

(vi) Co-permittees need only comply with permit conditions relating to discharges from the municipal separate storm sewers for which they are operators.

(4) Discharges through large and medium municipal separate storm sewer systems.

In addition to meeting the requirements of 122.26(c), an operator of a storm water discharge associated with industrial activity which discharges through a large or medium municipal separate storm sewer system shall submit, to the operator of the municipal separate storm sewer system receiving the discharge no later than [insert date 180 days after publication] or 180 days prior to commencing such discharge: the name of the facility; a contact person and phone number; the location of the discharge; a description, including Standard Industrial Classification, which best reflects the principal products or services provided by each facility; and any existing NPDES permit number.

(5) <u>Other Municipal Separate Storm Sewers</u>. The Director may issue permits for municipal separate storm sewers that are designated under subparagraph (1)(v) of this paragraph on a system-wide basis, jurisdiction-wide basis, watershed basis or other appropriate basis, or may issue permits for individual discharges.

(6) <u>Non-Municipal Separate Storm Sewers</u>. For storm water discharges associated with industrial activity from point sources which discharge through a non-municipal or non-publicly owned separate storm sewer system, the Director, in his discretion, may issue: a single NPDES permit, with each discharger a co-permittee to a permit issued to the operator of the portion of the system that discharges into waters of the United States; or, individual permits to each discharger of storm water associated with industrial activity through the non-municipal conveyance system.

(i) All storm water discharges associated with industrial activity that discharge through a storm water discharge system that is not a municipal separate storm sewer must be covered by an individual permit, or a permit issued to the operator of the portion of the system that discharges to waters of the United States, with each discharger to the non-municipal conveyance a co-permittee to that permit.

(ii) Where there is more than one operator of a single system of such conveyances, all operators of storm water discharges associated with industrial activity must submit applications.

(iii) Any permit covering more than one operator shall identify the effluent limitations, or other permit conditions, if any, that apply to each operator.

(7) <u>Combined Sewer Systems</u>. Conveyances that discharge storm water runoff combined with municipal sewage are point sources that must obtain NPDES permits in accordance with the procedures of 122.21 and are not subject to the provisions of this section.

(8) Whether a discharge from a municipal separate storm sewer is or is not subject to regulation under this section shall have no bearing on whether the owner or operator of the discharge is eligible for funding under Title II, Title III or Title VI of the Clean Water Act. See 40 CFR Part 35, Subpart I, Appendix A(b)H.2.j.

Section 122.26(c) <u>Application requirements for storm water discharges associated with</u> industrial activity.

(1) <u>Individual application</u>. Dischargers of storm water associated with industrial activity are required to apply for an individual permit, apply for a permit through a group application, or seek coverage under a promulgated storm water general permit. Facilities that are required to obtain an individual permit, or any discharge of storm water which the Director is evaluating for designation (see

40 CFR 124.52(c)) under paragraph (a)(1)(v) and is not a municipal separate storm sewer, and which is not part of a group application described under paragraph (2), shall submit an NPDES application in accordance with the requirements of § 122.21 as modified and supplemented by the provisions of the remainder of this paragraph. Applicants for discharges composed entirely of storm water shall submit Form 1 and Form 2F. Applicants for discharges composed of storm water and non-storm water shall submit Form 1, Form 2C, and Form 2F. Applicants for new sources or new discharges (as defined in § 122.2 of this part) composed of storm water and non-storm water shall submit Form 2F.

(i) Except as provided in paragraphs 122.26(c)(1)(ii)-(iv), the operator of a storm water discharge associated with industrial activity subject to this section shall provide:

(A) a site map showing topography (or indicating the outline of drainage areas served by the outfall(s) covered in the application if a topographic map is unavailable) of the facility including: each of its drainage and discharge structures; the drainage area of each storm water outfall; paved areas and buildings within the drainage area of each storm water outfall, each past or present area used for outdoor storage or disposal of significant materials, each existing structural control measure to reduce pollutants in storm water runoff, materials loading and access areas, areas where pesticides, herbicides, soil conditioners and fertilizers are applied, each of its hazardous waste treatment, storage or disposal facilities (including each area not required to have a RCRA permit which is used for accumulating hazardous waste under 40 CFR 262.34); each well where fluids from the facility are injected underground; springs, and other surface water bodies which receive storm water discharges from the facility;

(B) an estimate of the area of impervious surfaces (including paved areas and building roofs) and the total area drained by each outfall (within a mile radius of the facility) and a narrative description of the following: significant materials that in the three years prior to the submittal of this application have been treated, stored or disposed in a manner to allow exposure to storm water; method of treatment, storage or disposal of such materials; materials management practices employed, in the three years prior to the submittal of this application, to minimize contact by these materials with storm water runoff; materials loading and access areas; the location, manner and frequency in which pesticides, herbicides, soil conditioners and fertilizers are applied; the location and a description of existing structural and non-structural control measures to reduce pollutants in storm water runoff; and a description of the treatment the storm water receives, including the ultimate disposal of any solid or fluid wastes other than by discharge;

(C) a certification that all outfalls that should contain storm water discharges associated with industrial activity have been tested or evaluated for the presence of non-storm water discharges which are not covered by a NPDES permit; tests for such non-storm water discharges may include smoke tests, fluorometric dye tests, analysis of accurate schematics, as well as other appropriate tests. The certification shall include a description of the method used, the date of any testing, and the on-site drainage points that were directly observed during a test;

(D) existing information regarding significant leaks or spills of toxic or hazardous pollutants at the facility that have taken place within the three years prior to the submittal of this application;

(E) quantitative data based on samples collected during storm events and collected in accordance with section 122.21 of this Part from all outfalls containing a storm water discharge associated with industrial activity for the following parameters:

(1) Any pollutant limited in an effluent guideline to which the facility is subject;

(2) Any pollutant listed in the facility's NPDES permit for its process wastewater (if the facility is operating under an existing NPDES permit);

(3) Oil and grease, pH, BOD5, COD, TSS, total phosphorus, total Kjeldahl nitrogen, and nitrate plus nitrite nitrogen;

(4) Any information on the discharge required under paragraph 122.21(g)(7)(iii) and (iv) of this Part;

(5) Flow measurements or estimates of the flow rate, and the total amount of discharge for the storm event(s) sampled, and the method of flow measurement or estimation; and

(6) The date and duration (in hours) of the storm event(s) sampled, rainfall measurements or estimates of the storm event (in inches) which generated the sampled runoff and the duration between the storm event sampled and the end of the previous measurable (greater than 0.1 inch rainfall) storm event (in hours);

(F) Operators of a discharge which is composed entirely of storm water are exempt from the requirements of paragraphs 122.21(g)(2), (g)(3), (g)(4), (g)(5), (g)(7)(i), (g)(7)(ii), and (g)(7)(v); and

(G) Operators of new sources or new discharges (as defined in § 122.2 of this Part) which are composed in part or entirely of storm water must include estimates for the pollutants or parameters listed in subparagraph (E) of this paragraph instead of actual sampling data, along with the source of each estimate. Operators of new sources or new discharges composed in part or entirely of storm water must provide quantitative data for the parameters listed in subparagraph (E) of this paragraph within two years after commencement of discharge, unless such data has already been reported under the monitoring requirements of the NPDES permit for the discharge. Operators of a new source or new discharge which is composed entirely of storm water are exempt from the requirements of paragraphs 122.21(k)(3)(ii), (k)(3)(iii), and (k)(5).

(ii) The operator of an existing or new storm water discharge that is associated with industrial activity solely under paragraph (b)(14)(x) of this section, is exempt from the requirements of paragraphs 122.21(g) and 122.26(c)(1)(i) of this Part. Such operator shall provide a narrative description of:

(A) the location (including a map) and the nature of the construction activity;

(B) the total area of the site and the area of the site that is expected to undergo excavation during the life of the permit;

(C) proposed measures, including best management practices, to control pollutants in storm water discharges during construction, including a brief description of applicable State and local erosion and sediment control requirements;

(D) proposed measures to control pollutants in storm water discharges that will occur after construction operations have been completed, including a brief description of applicable State or local erosion and sediment control requirements;

(E) an estimate of the runoff coefficient of the site and the increase in impervious area after the construction addressed in the permit application is completed, the nature of fill material and existing data describing the soil or the quality of the discharge; and

(F) the name of the receiving water.

(iii) The operator of an existing or new discharge composed entirely of storm water from an oil or gas exploration, production, processing, or treatment operation, or transmission facility is not required to submit a permit application in accordance with paragraph (i) of this section, unless the facility:

(A) has had a discharge of storm water resulting in the discharge of a reportable quantity for which notification is or was required pursuant to 40 CFR 117.21 or 40 CFR 302.6 at anytime since November 16, 1987; or

(B) has had a discharge of storm water resulting in the discharge of a reportable quantity for which notification is or was required pursuant to 40 CFR 110.6 at any time since November 16, 1987; or

(C) contributes to a violation of a water quality standard.

(iv) The operator of an existing or new discharge composed entirely of storm water from a mining operation is not required to submit a permit application unless the discharge has come into contact with, any overburden, raw material, intermediate products, finished product, byproduct or waste products located on the site of such operations.

(v) Applicants shall provide such other information the Director may reasonably require under paragraph 122.21(g)(13) of this Part to determine whether to issue a permit and may require any facility subject to paragraph (c)(1)(ii) to comply with paragraph (c)(1)(i) of this section.

**Section 122.26(e)** <u>Application deadlines</u>. Any operator of a point source required to obtain a permit under paragraph (a)(1) that does not have an effective NPDES permit covering its storm water outfalls shall submit an application in accordance with the following deadlines:

(1) For any storm water discharge associated with industrial activity identified in 122.26(b)(14)(i)-(xi), that is not part of a group application as described in paragraph (c)(2) or which is not covered under a promulgated storm water general permit, a permit application made pursuant to 122.26(c) shall be submitted to the Director by November 18, 1991;

(2) For any group application submitted in accordance with 122.26(c)(2):

(i) Part 1 of the application shall be submitted to the Director, Office of Water Enforcement and Permits by September 30, 1991;

(ii) Based on information in the Part 1 application, the Director will approve or deny the members in the group application within 60 days after receiving Part 1 of the group application.

(iii) Part 2 of the application shall be submitted to the Director, Office of Water Enforcement and Permits no later than 12 months, or by May 18, 1992 whichever comes first after the date of approval of the Part 1 application.

(iv) Facilities that are rejected as members of a group by the permitting authority shall have 12 months to file an individual permit application from the date they receive notification of their rejection.

(v) A facility listed under paragraph (b)(14)(i)-(xi) may add on to a group application submitted in accordance with paragraph (e)(2)(i) at the discretion of the Office of Water Enforcement and Permits, and only upon a showing of good cause by the facility and the group applicant; the request for the addition of the facility shall be made no later than February 18, 1992; the addition of the facility shall not cause the percentage of the facilities that are required to submit quantitative data to be less than 10%, unless there are over 100 facilities in the group that are submitting quantitative data; approval to become part of group application must be obtained from the group or the trade association representing the individual facilities.

(3) For any discharge from a large municipal separate storm sewer system;

(i) Part 1 of the application shall be submitted to the Director by November 18, 1991;

(ii) Based on information received in the Part 1 application the Director will approve or deny a sampling plan under 122.26(d)(1)(iv)(E) within 90 days after receiving the Part 1 application;

(iii) Part 2 of the application shall be submitted to the Director by November 16, 1992.

(4) For any discharge from a medium municipal separate storm sewer system;

(i) Part 1 of the application shall be submitted to the Director by May 18, 1992.

(ii) Based on information received in the Part 1 application the Director will approve or deny a sampling plan under 122.26(d)(1)(iv)(E) within 90 days after receiving the Part 1 application.

(iii) Part 2 of the application shall be submitted to the Director by May 17, 1993.

(5) A permit application shall be submitted to the Director within 60 days of notice, unless permission for a later date is granted by the Director (see 40 CFR 124.52(c)), for:

(i) a storm water discharge which the Director, or in States with approved NPDES programs, either the Director or the EPA Regional Administrator, determines that the discharge contributes to a violation of a water quality standard or is a significant contributor of pollutants to waters of the United States (see paragraph (a)(1)(v) of this section);

(ii) A storm water discharge subject to paragraph (c)(1)(v) of this section.

(6) Facilities with existing NPDES permits for storm water discharges associated with industrial activity shall maintain existing permits. New applications shall be submitted in accordance with the requirements of 40 CFR 122.21 and 40 CFR 122.26(c) 180 days before the expiration of such permits. Facilities with expired permits or permits due to expire before May 18, 1992 shall submit applications in accordance with the deadline set forth under 122.26(e)(1).

#### Section 122.26(f) Petitions.

(1) Any operator of a municipal separate storm sewer system may petition the Director to require a separate NPDES permit (or a permit issued under an approved NPDES State program) for any discharge into the municipal separate storm sewer system.

(2) Any person may petition the Director to require a NPDES permit for a discharge which is composed entirely of storm water which contributes to a violation of a water quality standard or is a significant contributor of pollutants to waters of the United States.

(3) The owner or operator of a municipal separate storm sewer system may petition the Director to reduce the Census estimates of the population served by such separate system to account for storm water discharged to combined sewers as defined by 40 CFR 35.2005(b)(11) that is treated in a publicly owned treatment works. In municipalities in which combined sewers are operated, the Census estimates of population may be reduced proportional to the fraction, based on estimated lengths, of the length of combined sewers over the sum of the length of combined sewers and municipal separate storm sewers where an applicant has submitted the NPDES permit number associated with each discharge point and a map indicating areas served by combined sewers and the location of any combined sewer overflow discharge point.

(4) Any person may petition the Director for the designation of a large or medium municipal separate storm sewer system as defined by subsections (b)(4)(iv) or (b)(7)(iv) of this rule.
 (5) The Director shall make a final determination on any petition received under this section within 90 days after receiving the petition.

#### **APPENDIX B: DEFINITIONS OF KEY TERMS**

The following are definitions of terms found in the NPDES general definitions (40 CFR 122.2), the storm water regulations (55 FR 47990), and terms commonly used in relation to storm water discharges.

(1) "Best management practices ("BMPs")"means schedules of activities, prohibitions of practices, maintenance procedures, and other management practices to prevent or reduce the pollution of "waters of the United States." BMPs also include treatment requirements, operating procedures, and practices to control plant site runoff, spillage or leaks, sludge or waste disposal, or drainage from raw material storage.

(2) "Contiguous zone" means the entire zone established by the United States under Article 24 of the Convention on the Territorial Sea and the Contiguous Zone.

(3) "Co-permittee" means a permittee to a NPDES permit that is only responsible for permit conditions relating to the discharge for which it is operator.

(4) "Discharge" when used without qualification means the "discharge of a pollutant."

(5) "Discharge of a pollutant" means:

(i) Any addition of any "pollutant"or combination of pollutants to "waters of the United States" from any "point source," or

(ii) Any addition of any pollutant or combination of pollutants to the waters of the "contiguous zone" or the ocean from any point source other than a vessel or other floating craft which is being used as a means of transportation.

This definition includes additions of pollutants into waters of the United States from: surface runoff which is collected or channelled by man; discharges through pipes, sewers, or other conveyances owned by a State, municipality, or other person which do not lead to a treatment works; and discharges through pipes, sewers, or other conveyances, leading into privately owned treatment works. This term does not include an addition of pollutants by any "indirect discharger."

(6) "Effluent limitation" means any restriction imposed by the Director on quantities, discharge rates, and concentrations of "pollutants' which are "discharged" from "point sources" into "waters of the United States," the waters of the "contiguous zone," or the ocean.

(7) "Effluent limitations guidelines" means a regulation published by the Administrator under section 304(b) of CWA to adopt or revise "effluent limitations."

(8) "Illicit discharge" means any discharge to a municipal separate storm sewer that is not composed entirely of storm water except discharges pursuant to NPDES permit (other than the NPDES permit for discharges from the municipal separate storm sewer) and discharges from fire fighting activities.

(9) "Incorporated place" means the District of Columbia, or a city, town or village that is incorporated under the laws of the State in which it is located.

(10) "Large municipal separate storm sewer system" means all municipal separate storm sewers that are either:

(i) located in an incorporated place with a population of 250,000 or more as determined by the latest Decennial Census by the Bureau of Census (Appendix F); or

(ii) located in the counties listed in Appendix H, except municipal separate storm sewers that are located in the incorporated places, townships or towns within such counties; or (iii) owned or operated by a municipality other than those described in paragraph (i) or (ii) and that are designated by the Director as part of the large or medium municipal separate storm sewer system due to the interrelationship between the discharges of the designated storm sewer and the discharges from municipal separate storm sewers described under paragraphs (i) or (ii). In making this determination the Director may consider the following factors:

(A) physical interconnections between the municipal separate storm sewers;

(B) the location of discharges from the designated municipal separate storm sewer relative to discharges from municipal separate storm sewers described in subparagraph (i);

(C) the quantity and nature of pollutants discharged to waters of the United States;

(D) the nature of the receiving waters; and

(E) other relevant factors; or

(iv) the Director may, upon petition, designate as a large municipal separate storm sewer system, municipal separate storm sewers located within the boundaries of a region defined by a storm water management regional authority based on a jurisdictional, watershed, or other appropriate basis that includes one or more of the systems described in paragraphs (i), (ii), (iii).

(11) "Major municipal separate storm sewer outfall" (or "major outfall") means a municipal separate storm sewer outfall that discharges from a single pipe with an inside diameter of 36 inches or more or its equivalent (discharge from a single conveyance other than circular pipe which is associated with a drainage area of more than 50 acres); or for municipal separate storm sewers that receive storm water from lands zoned for industrial activity (based on comprehensive zoning plans or the equivalent), an outfall that discharges from a single pipe with an inside diameter of 12 inches or more or from its equivalent (discharge from other than a circular pipe associated with a drainage area of 2 acres or more).

(12) "Major outfall" means a major municipal separate storm sewer outfall.

(13) "Medium municipal separate storm sewer system" means all municipal separate storm sewers that are either:

(i) located in an incorporated place with a population of 100,000 or more but less than 250,000, as determined by the latest Decennial Census by the Bureau of Census (Appendix G); or

(ii) located in the counties listed in Appendix I, except municipal separate storm sewers that are located in the incorporated places, townships or towns within such counties; or

(iii) owned or operated by a municipality other than those described in paragraph (i) or (ii) and that are designated by the Director as part of the large or medium municipal separate storm sewer system due to the interrelationship between the discharges of the designated storm sewer and the discharges from municipal separate storm sewers described under paragraphs (i) or (ii). In making this determination the Director may consider the following factors:

(A) physical interconnections between the municipal separate storm sewers;

(B) the location of discharges from the designated municipal separate storm sewer relative to discharges from municipal separate storm sewers described in subparagraph (i);

(C) the quantity and nature of pollutants discharged to waters of the United States;

(D) the nature of the receiving waters; or

(E) other relevant factors; or

(iv) the Director may, upon petition, designate as a medium municipal separate storm sewer system, municipal separate storm sewers located within the boundaries of a region defined by a storm water management regional authority based on a jurisdictional, watershed, or other appropriate basis that includes one or more of the systems described in paragraphs (i), (ii), (iii).

(14) "Municipal separate storm sewer" means a conveyance or system of conveyances (including roads with drainage systems, municipal streets, catch basins, curbs, gutters, ditches, manmade channels, or storm drains):

(i) owned or operated by a State, city, town, borough, county, parish, district, association, or other public body (created by or pursuant to State law) having jurisdiction over disposal of sewage, industrial wastes, storm water, or other wastes, including special districts under State law such as a sewer district, flood control district or drainage district, or similar entity, or an Indian tribe or an authorized Indian tribal organization, or a designated and approved management agency under section 208 of the CWA that discharges to waters of the United States;

(ii) designed or used for collecting or conveying storm water;

(iii) which is not a combined sewer; and

(iv) which is not part of a Publicly Owned Treatment Works (POTW) as defined at 40 CFR 122.2.

(15) "National Pollutant Discharge Elimination System (NPDES)" means the national program for issuing, modifying, revoking and reissuing, terminating, monitoring and enforcing permits, and imposing and enforcing pretreatment requirements, under sections 307, 402, 318, and 405 of CWA. The term includes an "approved program."

(16) "New discharger" means any building, structure, facility, or installation:

(i) From which there is or may be a "discharge of pollutants;"

(ii) That did not commence the "discharge of pollutants" at a particular "site" prior to August 13, 1979;

(iii) Which is not a "new source," and

(iv) Which has never received a finally effective NPDES permit for discharges at that "site."

This definition includes an "indirect discharger" which commences discharging into "waters of the United States" after August 13, 1979. It also includes any existing mobile point source (other than an offshore or coastal oil and gas exploratory drilling rig or a coastal oil and gas developmental drilling rig) such as a seafood processing rig, seafood processing vessel, or aggregate plant, that begins discharging at a "site" for which it does not have a permit; and any offshore or coastal mobile oil and gas exploratory drilling rig or coastal mobile oil and gas developmental drilling rig that commences the discharge of pollutants after August 13, 1979, at a "site" under EPA's permitting jurisdiction for which it is not covered by an individual or general permit and which is located in an area determined by the Regional Administrator in the issuance of a final permit to be an area of biological concern. In determining whether an area is an area of biological concern, the Regional Administrator shall consider the factors specified in 40 CFR 125.122(a) (1) through (10).

An offshore or coastal mobile exploratory drilling rig or coastal mobile developmental drilling rig will be considered a "new discharger" only for the duration of its discharge in an area of biological concern.

(17) "New source" means any building, structure, facility, or installation from which there is or may be a "discharge of pollutants," the construction of which commenced:

(i) After promulgation of standards of performance under section 306 of CWA which are applicable to such source, or

(ii) After proposal of standards of performance in accordance with section 306 of CWA which are applicable to such source, but only if the standards are promulgated in accordance with section 306 within 120 days of their proposal.

(18) "Outfall" means a "point source" as defined by 40 CFR 122.2 at the point where a municipal separate storm sewer discharges to waters of the United States and does not include open conveyances connecting two municipal separate storm sewers, or pipes, tunnels or other conveyances which connects segments of the same stream or other waters of the United States and are used to convey waters of the United States.

(19) "Overburden" means any material of any nature, consolidated or unconsolidated, that overlies a mineral deposit, excluding topsoil or similar naturally-occurring surface materials that are not disturbed by mining operations.

(20) "Owner or operator" means the owner or operator of any "facility or activity" subject to regulation under the NPDES program.

(21) "Permit" means an authorization, license, or equivalent control document issued by EPA or an "approved State" to implement the requirements of this part and Parts 123 and 124. "Permit" includes an NPDES "general permit" (Section 122.28). Permit does not include any permit which has not yet been the subject of final agency action, such as a "draft permit" or a "proposed permit."

(22) "Person" means an individual, association, partnership, corporation, municipality, State or Federal agency, or an agent or employee thereof.

(23) "Point source" means any discernible, confined, and discrete conveyance, including but not limited to, any pipe, ditch, channel, tunnel, conduit, well, discrete fissure, container, rolling stock, concentrated animal feeding operation, vessel, or other floating craft from which pollutants are or may be discharged. This term does not include return flows from irrigated agriculture.

(24) "Pollutant" means dredged spoil, solid waste, incinerator residue, filter backwash, sewage, garbage, sewage sludge, munitions, chemical wastes, biological materials, radioactive materials (except those regulated under the Atomic Energy Act of 1954, as amended (42 (U.S.C. 2011 <u>et seq.</u>)), heat, wrecked or discharged equipment, rock, sand, cellar dirt and industrial, municipal, and agricultural waste discharged into water. It does not mean:

(i) Sewage from vessels; or

(ii) Water, gas, or other material which is injected into a well to facilitate production of oil or gas, or water derived in association with oil and gas production and disposed of in a well, if the well used either to facilitate production or for disposal purposes is approved by authority of the State in which the well is located, and if the State determines that the injection or disposal will not result in the degradation of ground or surface water resources.

Radioactive materials covered by the Atomic Energy Act are those encompassed in its definition of source, byproduct, or special nuclear materials. Examples of materials not covered include radium and accelerator-produced isotopes. See <u>Train v. Colorado Public Interest Research</u> <u>Group. Inc.</u>, 426 U.S. 1 (1976).

(25) "Privately owned treatment works" means any device or system which is (a) used to treat wastes from any facility whose operator is not the operator of the treatment works and (b) not a "POTW."

(26) "Process wastewater" means any water which, during manufacturing or processing, comes into direct contact with or results from the production or use of any raw material, intermediate product, finished product, byproduct, or waste product.

(27) "Proposed permit" means a State NPDES "permit" prepared after the close of the public comment period (and, when applicable, any public hearing and administrative appeals) which is sent to EPA for review before final issuance by the State. A "proposed permit" is not a "draft permit."

(28) "Publicly owned treatment works ("POTW")"means any device or system used in the treatment (including recycling and reclamation) of municipal sewage or industrial wastes of a liquid nature which is owned by a "State" or "municipality." This definition includes sewers, pipes, or other conveyances only if they convey wastewater to a POTW providing treatment.

(29) "Runoff coefficient" means the fraction of total rainfall that will appear at the conveyance as runoff.

(30) "Significant materials" includes, but is not limited to: raw materials; fuels; materials such as solvents, detergents, and plastic pellets; finished materials such as metallic products; raw materials used in food processing or production; hazardous substances designated under section 101(14) of CERCLA; any chemical the facility is required to report pursuant to Section 313 of Title III of SARA; fertilizers; pesticides; and waste products such as ashes, slag and sludge that have the potential to be released with storm water discharges.

(31) "Site" means the land or water area where any "facility or activity" is physically located or conducted, including adjacent land used in connection with the facility or activity.

(32) "Storm water" means storm water runoff, snow melt runoff, and surface runoff and drainage.

(33) "Storm water discharge associated with industrial activity" means the discharge from any conveyance which is used for collecting and conveying storm water and which is directly related to manufacturing, processing or raw materials storage areas at an industrial plant. The term does not include discharges from facilities or activities excluded from the NPDES program under 40 CFR Part 122. For the categories of industries identified in subparagraphs (i) through (x) of this subsection, the term includes, but is not limited to, storm water discharges from industrial plant vards; immediate access roads and rail lines used or traveled by carriers of raw materials, manufactured products, waste material, or by-products used or created by the facility; material handling sites; refuse sites; sites used for the application or disposal of process waste waters (as defined at 40 CFR 401); sites used for the storage and maintenance of material handling equipment; sites used for residual treatment, storage, or disposal; shipping and receiving areas; manufacturing buildings; storage areas (including tank farms) for raw materials, and intermediate and finished products; and areas where industrial activity has taken place in the past and significant materials remain and are exposed to storm water. For the categories of industries identified in subparagraph (xi), the term includes only storm water discharges from all the areas (except access roads and rail lines) that are listed in the previous sentence where material handling equipment or activities, raw materials, intermediate products, final products, waste materials, by-products, or industrial machinery are exposed to storm water. For the purposes of this paragraph, material handling activities include the: storage, loading and unloading, transportation, or conveyance of any raw material, intermediate product, finished product, by-product or waste product. The term excludes areas located on plant lands separate from the plant's industrial activities, such as office buildings and accompanying parking lots as long as the drainage from the excluded areas is not mixed with storm water drained from the above described areas. Industrial facilities (including industrial facilities that are Federally, State, or municipally owned or operated that meet the description of the facilities listed in this paragraph (i)-(xi)) include those facilities designated under the provisions of 122.26(a)(1)(v). The

following categories of facilities are considered to be engaging in "industrial activity" for purposes of this subsection:

(i) Facilities subject to storm water effluent limitations guidelines, new source performance standards, or toxic pollutant effluent standards under 40 CFR Subchapter N (except facilities with toxic pollutant effluent standards which are exempted under category (xi) of this paragraph);

(ii) Facilities classified as Standard Industrial Classifications 24 (except 2434), 26 (except 265 and 267), 28 (except 283) 29, 311, 32 (except 323), 33, 3441, 373;

(iii) Facilities classified as Standard Industrial Classifications 10 through 14 (mineral industry) including active or inactive mining operations (except for areas of coal mining operations no longer meeting the definition of a reclamation area under 40 CFR 434.11(1) because the performance bond issued to the facility by the appropriate SMCRA authority has been released, or except for areas of non-coal mining operations which have been released from applicable State or Federal reclamation requirements after December 17, 1990 and oil and gas exploration, production, processing, or treatment operations, or transmission facilities that discharge storm water contaminated by contact with or that has come into contact with, any overburden, raw material, intermediate products, finished products, byproducts or waste products located on the site of such operations; (inactive mining operations are mining sites that are not being actively mined, but which have an

identifiable owner/operator; inactive mining sites do not include sites where mining claims are being maintained prior to disturbances associated with the extraction, beneficiation, or processing of mined materials, nor sites where minimal activities are undertaken for the sole purpose of maintaining a mining claim);

(iv) Hazardous waste treatment, storage, or disposal facilities, including those that are operating under interim status or a permit under Subtitle C of RCRA;

(v) Landfills, land application sites, and open dumps that receive or have received any industrial wastes (waste that is received from any of the facilities described under this subsection) including those that are subject to regulation under Subtitle D of RCRA;

(vi) Facilities involved in the recycling of materials, including metal scrapyards, battery reclaimers, salvage yards, and automobile junkyards, including but limited to those classified as Standard Industrial Classification 5015 and 5093;

(vii) Steam electric power generating facilities, including coal handling sites;

(viii) Transportation facilities classified as Standard Industrial Classifications 40, 41, 42 (except 4221-25), 43, 44, 45, and 5171 which have vehicle maintenance shops, equipment cleaning operations, or airport deicing operations. Only those portions of the facility that are either involved in vehicle maintenance (including vehicle rehabilitation, mechanical repairs, painting, fueling, and lubrication), equipment cleaning operations, airport deicing operations, or which are otherwise identified under paragraphs (i)-(vii) or (ix)-(xi) of this subsection are associated with industrial activity;

(ix) Treatment works treating domestic sewage or any other sewage sludge or wastewater treatment device or system, used in the storage treatment, recycling, and reclamation of municipal or domestic sewage, including land dedicated to the disposal of sewage sludge that are located within the confines of the facility, with a design flow of 1.0 mgd or more, or required to have an approved pretreatment program under 40 CFR 403. Not included are farm lands, domestic gardens or lands used for sludge management where sludge is beneficially reused and which are not physically located in the confines of the facility, or areas that are in compliance with Section 405 of the CWA;

(x) Construction activity including clearing, grading and excavation activities except: operations that result in the disturbance of less than five acres of total land area which are not part of a larger common plan of development or sale;

(xi) Facilities under Standard Industrial Classifications 20, 21, 22, 23, 2434, 25, 265, 267, 27, 283, 285, 30, 31 (except 311), 323, 34 (except 3441), 35, 36, 37 (except 373), 38, 39, 4221-25, (and which are not otherwise included within categories (ii)-(x));

(34) "Total dissolved solids" means the total dissolved (filterable) solids as determined by use of the method specified in 40 CFR Part 136.

(35) "Toxic pollutant" means any pollutant listed as toxic under section 307(a)(1) of CWA.

(36) "Variance" means any mechanism or provision under section 301 or 316 of CWA or under 40 CFR Part 125, or in the applicable "effluent limitations guidelines" which allows modification to or waiver of the generally applicable effluent limitation requirements or time deadlines of CWA. This includes provisions which allow the establishment of alternative limitations based on fundamentally different factors or on sections 301(c), 301(g), 301(h), 301(i), or 316(a) of CWA.

(37) "Waters of the United States" or "waters of the U.S." means:

(i) All waters which are currently used, were used in the past, or may be susceptible to use in interstate or foreign commerce, including all waters which are subject to the ebb and flow of the tide;

(ii) All interstate water, including interstate "wetlands",

(iii) All other water such as intrastate lakes, rivers, streams (including intermittent steams), mudflats, sandflats, "wetlands", sloughs, prairie potholes, wet meadows, playa lakes, or natural ponds the use, degradation, or destruction of which would affect or could affect interstate or foreign commerce including any such waters:

(A) Which are or could be used by interstate or foreign travelers for recreational or other purposes;

(B) From which fish or shellfish are or could be taken and sold in interstate or foreign commence; or

(C) Which are used or could be used for industrial purposes by industries in interstate commerce:

(iv) All impoundments of waters otherwise defined as waters of the United States under this definition;

(v) Tributaries of waters identified in paragraphs (i) through (vi) of this definition;

(vi) The territorial sea; and

(vii) "Wetlands" adjacent to waters (other than waters that are themselves wetlands) identified in paragraphs (i) through (vi) of this definition.

Waste treatment systems, including treatment ponds or lagoons designed to meet the requirements of CWA (other than cooling ponds as defined in 40 CFR 423.11(m) which also meet the criteria of this definition) are not waters of the United States. This exclusion applies only to manmade bodies of water which neither were originally created in waters of the United States (such as disposal area in wetlands) nor resulted from the impoundment of waters of the United States. [See Note 1 of this section.]

(38) "Wetlands" means those areas that are inundated or saturated by surface or groundwater at a frequency and duration sufficient to support, and that under normal circumstances, do support a prevalence of vegetation typically adapted for life in saturated soil conditions. Wetlands generally include swamps, marshes, bogs, and similar areas.

# APPENDIX C: INFORMATION FOR EPA REGIONAL OFFICES AND STATES WITH APPROVED NPDES PROGRAMS

C.1	Federal, State, and Regional Permitting Agency Contacts
C.2	Addresses and Telephone Numbers of EPA Regional Offices and States within the Regional Office Jurisdictions

## APPENDIX C.1: FEDERAL, STATE, AND REGIONAL PERMITTING AGENCY CONTACTS

Alabama	Department of Environmental Management Water Division 1751 Cong. W.L. Dickinson Drive Montgomery, AL 36130 (205) 271-7825		
Alaska	Department of Environmental Conservation Division of Environmental Quality Management Pouch O Juneau, AK 99811 (907) 465-2640	and	U.S. EPA Region X
Arizona	Department of Health Services Office of Waste and Water Quality Management 2005 N. Central Avenue Phoenix, AZ 85007 (602) 257-2305	and	U.S. EPA Region IX
Arkansas	Department of Pollution Control and Ecology NPDES Branch 8001 National Drive Little Rock, AR 72209 (501) 562-7444		
California	State Water Resources Control Board P.O. Box 100 901 P Street Sacramento, CA 95801 (916) 322-3132		
Colorado	Department of Health Water Quality Control Division Permits and Enforcement Section 4210 E. 11th Avenue, Room 200 Denver, CO 80220 (303) 331-3015		
Connectic	ut Department of Environmental Protection Water Compliance and Hazardous Substances 122 Washington Street Hartford, CT 06106 (203) 566-3245		
Delaware	Department of Natural Resources and Enviror Division of Water Resources 89 Kings Highway P.O. Box 1401 Dover, DE 19903 (302) 736-4761	nment:	al Control
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District	Department of Consumer and of Columbia Environmental Control Division 5010 Overlook Avenue, S.W. Washington, D.C. 20032 (202) 767-7370	and	d U.S. EPA Region III
Florida	Department of Environmental Regulation Div. of Environmental Programs Water Quality Planning Section 2600 Blairstone Road, Ste 531 Twin Towers Office Building Tallahassee, FL 32301 (904) 488-0780	and	U.S. EPA Region IV
Georgia	Department of Natural Resources Environmental Protection Division, Water Protection Branch Floyd Towers East - Room 1058 205 Butler Street, S.W. Atlanta, GA 30334 (404) 656-4887		
Hawaii	Department of Health Pollution Investigation and Enforcement Division P.O. Box 3378 Honolulu, HI 96801 (808) 548-6505		
Idaho	Department of Health and Welfare Bureau of Water Quality State House Boise, ID 83720 (208) 334-4250	and	U.S. EPA Region X
Illinois	Illinois Environmental Protection Agency Division of Water Pollution Control 2200 Churchill Road Springfield, IL 62706 (217) 782-1654		
Indiana	Indiana Department of Environmental Manage 105 S. Meridian Street P.O. Box 6015 Indianapolis, IN 46225 (317) 232-8488	ment	

Iowa	Department of Natural Resources Environmental Protection Division Surface and Ground Water Protection Bureau Henry A. Wallace Building 900 E. Grand Avenue Des Moines, IA 50319 (515) 281-8690		
Kansas	State Department of Health and Environme Division of Environment Bureau of Water Quality Forbes AFB Building No. 740 Topeka, KS 66612 (913) 862-9360 x257	nt	
Kentucky	Department of Environmental Protection Department of Environmental Protection Division of Water Quality 18 Reilly Road, Fort Boone Plaza Frankfort, KY 40601 (502) 564-3410		
Louisiana	Department of Environmental Quality Office of Water Resources Permits Programs P.O. Box 44091 Baton Rouge, LA 70804-4091 (504) 922-0530	and	U.S. EPA Region VI
Maine	Department of Environmental Protection Bureau of Water Quality Control State House, Station 17 Augusta, ME 04333 (207) 289-3355 Boston, MA 02203 (617) 565-3519	and	U.S. EPA Region I
Maryland	Department of Natural Resources Water Resources Administration (water resources programs) Tawes State Office Building Annapolis, MD 21401 (301) 269-3846		
	Department of Health and Mental Hygiene Environmental Health Administration (water quality standards, NPDES permits, and sewage treatment) 201 W. Preston Street Baltimore, MD 21203 (301) 225-6300		

Massachusetts Department of Environmental Quality Engineering Division of Water Pollution Control & Division of Water Supply 1 Winter Street Boston, MA 02108 (617) 292-5673

Michigan Department of Natural Resources Water Resources Commission Water Quality Division P.O. Box 30028 Lansing, MI 48909 (517) 373-1949

Minnesota Minnesota Pollution Control Agency Division of Water Pollution Control 520 Lafayette Road St. Paul, MN 55155 (612) 296-7202

Mississippi Dept. of Natural Resources and Water Division P.O. Box 10385, Southport Mall Jackson, MS 39209 (601) 961-5171

Missouri Department of Natural Resources Water Quality Program Division of Environmental Quality Jefferson State Office Building 205 Jefferson Street Jefferson City, MO 65102 (314) 751-1300

Montana Department of Health and Environmental Sciences Division of Environmental Sciences Water Quality Bureau Cogswell Building, Room A206 Helena, MT 59620 (406) 444-2406

Nebraska Department of Environmental Control Water Pollution Control Division State House Station P.O. Box 94877-301 Centennial Mall Lincoln, NE 68509 (402) 471-2186 and U.S. EPA Region I

and Department of Environmental Quality Surface Water Division Bureau of Pollution Control P.O. Box 10385 Jackson, MS 39289 Nevada Department of Conservation and Natural Resources Water Resources Division 201 S. Fall Street, Room 221 Carson City, NV 89710 (702) 885-4380

New Water Supply and Pollution Hampshire Control Commission Hazen Drive P.O. Box 95 Concord, NH 03301 (603) 271-2458

New Jersey Department of Environmental Protection Division of Water Resources 1474 Prospect Street P.O. Box CN029 Trenton, NJ 08625 (609) 292-1638

New Mexico Health and Environment Department Environmental Improvement Division Surface Water Quality Bureau 1190 St. Francis Drive Santa Fe, NM 87504-0968 (505) 827-2918

New York Department of Environmental Conservation Permit Administrator 50 Wolf Road Albany, NY 12233

North Department of Natural Resources Carolina and Community Development Division of Environmental Management Water Quality Section P.O. Box 27687 Raleigh, NC 27611 (919) 733-5083

North Dakota Department of Health Division of Water Supply and Pollution Control 1200 Missouri Avenue Bismark, ND 58501 (701) 224-2345 and U.S. EPA Region I

and U.S. EPA Region VI

- Ohio Environmental Protection Agency Waste Water Pollution Control 1800 Watermark Drive P.O. Box 1049 Columbus, OH 43266-0149 (614) 466-7427
- Oklahoma Water Resources Board P.O. Box 53585 Oklahoma City, OK 73152

and U.S. EPA Region VI

State Department of Health Permits and Compliance Division P.O. Box 53551 Oklahoma City, OK 73152

- Oregon Department of Environmental Quality (DEQ) Water Quality Division 522 S.W. Fifth Avenue P.O. Box 1760 Portland, OR 97207 (503) 229-5324
- Pennsylvania Department of Environmental Resources Bureau of Water Quality Management P.O. Box 2063, 11th Floor/Fulton Bldg. 200 N. 3rd Street Harrisburg, PA 17120 (717) 787-2666

Puerto Rico Environmental Quality Board Division of Water/Water Resources P.O. Box 11488 Santurce, PR 00910 (809) 725-5140

Rhode Island Department of Environmental Management Division of Water Resources 75 Davis St., 209 Cannon Bldg. Providence, RI 02908 (401) 277-2234 and U.S. EPA Region II South

Department of Health and Carolina Environmental Control **Environmental Quality Control** 2600 Bull Street Columbia, SC 29201 (803) 734-4880

South Dakota Department of Water and Natural Resources **Division of Environmental** Regulation Point Source Control Program Joe Foss Building 120 E. Capitol Pierre,SD 57501 (605) 773-3351

Tennessee Department of Public Health **Division of Water Quality Control TERRA Building, 2nd floor** 150 9th Ave., N. Nashville, TN 37219-5405 (615) 741-3111

Texas **Texas Water Commission** P.O. Box 13087 **Capitol Station** Austin, TX 78711-3087 (512) 463-8028

> **Texas Railroad Commission** P.O. Drawer 12967 Austin, TX 78711 (512) 463-8028

- Utah Department of Health **Bureau of Water Pollution Control** 288 N. 1460 W. P.O. Box 16690 Salt Lake City, UT 84116-0690 (801) 538-6146
- Vermont State Water Resources Board (water pollution control) 58 E. State Street Montpelier, VT 05602 (802) 828-2871

Water Quality Division (water quality) Department of Water Resources and Environmental Engineering 103 S. Main Street Waterbury, VT 05676 (802) 244-5638

and U.S. EPA **Region VIII** 

U.S. EPA and Region VI

- Virginia State Water Control Board 211 N. Hamilton Street P.O. Box 11143 Richmond, VA 23230 (804) 257-0056
- Washington Washington Dept. of Ecology Office of Water Programs Mail Stop PV/11 Olympia, WA 98504 (206) 459-6000

West Department of Natural Resources Virginia Division of Water Resources 1800 Washington Street, East Charleston, WV 25305 (304) 348-2107

- Wisconsin Department of Natural Resources Division of Environmental Standards Bureau of Water Resources and Management P.O. Box 7921 Madison, WI 53707 (608) 266-2121
- Wyoming Department of Environmental Quality Water Quality Division Herschler Building 122 West 25th Street Cheyenne, WY 82002 (307) 777-7781
- Virgin US EPA, Region II Islands

Guam US EPA, Region IX

- American US EPA, Region IX Samoa
- District of US EPA, Region III Columbia

Northern US EPA, Region IX Marianas and Environmental Permit Information Center Department of Ecology Headquarters Office, PV-11 St. Martin's College Campus-Lacey Olympia, WA 98504

# APPENDIX C.2: ADDRESSES AND TELEPHONE NUMBERS OF EPA REGIONAL OFFICES AND STATES WITHIN THE REGIONAL OFFICE JURISDICTION

# **REGION I**

NPDES Permits, Water Management Division, EPA 9141, U.S. Environmental Protection Agency, John F. Kennedy Building, Boston, Massachusetts 02203, (617) 565-3420, FTS 835-3420.

Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, and Vermont.

# **REGION II**

NPDES Permits, Water Management Division, EPA 9270, U.S. Environmental Protection Agency, Jacob K. Javitz Federal Building, 26 Federal Plaza, New York, New York 10278, (212) 264-2657, FTS 264-2657.

New Jersey, New York, Virgin Islands, and Puerto Rico.

# **REGION III**

NPDES Permits, Water Management Division, EPA 9360, U.S. Environmental Protection Agency, 841 Chestnut Building, Philadelphia, Pennsylvania 19107, (215) 597-9800, FTS 597-9800.

Delaware, District of Columbia, Maryland, Pennsylvania, Virginia, and West Virginia.

# **REGION IV**

NPDES Permits, Water Management Division, EPA 9441, U.S. Environmental Protection Agency, 345 Courtland Street, N.E., Atlanta, Georgia 30365, (404) 347-4727, FTS 257-4727.

Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, and Tennessee.

## **REGION V**

NPDES Permits, Water Management Division, EPA 9560, U.S. Environmental Protection Agency, 230 South Dearborn Street, Chicago, Illinois 60604, (312) 353-2105, FTS 353-2105.

Illinois, Indiana, Michigan, Minnesota, Ohio, and Wisconsin.

# **REGION VI**

NPDES Permits, Water Management Division, EPA 9670, U.S. Environmental Protection Agency, First Interstate Bank Tower at Fountain Place, 1445 Ross Avenue, 12th Floor, Suite 1200, Dallas, Texas 75202, (214) 655-6444, FTS 255-6444.

Arkansas, Louisiana, New Mexico, Oklahoma, and Texas.

# **REGION VII**

NPDES Permits, Water Management Division, EPA 9790, U.S. Environmental Protection Agency, 726 Minnesota Avenue, Kansas City, Missouri 66101, (913) 551-7000, FTS 276-7000.

Iowa, Kansas, Missouri, and Nebraska.

# **REGION VIII**

NPDES Permits, Water Management Division, EPA 9871, 999 18th Street, Suite 500, U.S. Environmental Protection Agency, Denver, Colorado 80202, (303) 293-1603, FTS 330-1603.

Colorado, Montana, North Dakota, South Dakota, Utah, and Wyoming.

# **REGION IX**

NPDES Permits, Water Management Division, EPA 9920, U.S. Environmental Protection Agency, 75 Hawthorne Street, San Francisco, California 94105, (415) 744-2125, FTS 484-2125.

Arizona, California, Hawaii, Nevada, Guam, American Samoa, and Trust Territories.

# **REGION X**

NPDES Permits, Water Management Division, EPA 9031, U.S. Environmental Protection Agency, 1200 6th Avenue, Seattle, Washington 98101, (206) 442-1200, FTS 399-1200.

Alaska, Idaho, Oregon, and Washington.

## APPENDIX D: PROCEDURES FOR SUBMITTING A GROUP APPLICATION

As an alternative to submitting an individual application, a facility (except facilities that have existing individual NPDES permits for storm water or process discharge) may participate in a group application for sufficiently similar facilities. The intent of the group application process is to reduce the collection and reporting burdens of participating industries. Group applications involve a two part application process. Group applications do not have specific forms; rather, the applicants are required to submit the information described below.

Acceptable participants for a group application include those facilities that are part of the same industrial subcategory (see Table 2-1 for a list of the SIC codes that are considered industrial plants in the regulations - Part 405 to Part 471) or have sufficiently similar services or activities.

Part 1 of the group application must contain the following information: (There is no standard form for Part 1 of a group application. For Part 2 the relevant portion of form 2F should be used.) When determining the number of dischargers identified for Part 2 sampling under paragraph (D), unless the group is less than 11 members in size, a minimum of 10 facilities must conduct and submit quantitative sampling data.

122.26(c)(2) Group application for discharges associated with industrial activity. In lieu of individual applications or notice of intent to be covered by a general permit for storm water discharges associated with industrial activity, a group application may be filed by an entity representing a group of applicants (except facilities that have existing individual NPDES permits for storm water) that are part of the same subcategory (see 40 CFR Subchapter N, Part 405 to 471) or, where such grouping is inapplicable, are sufficiently similar as to be appropriate for general permit coverage under § 122.28 of this Part. The Part 1 application shall be submitted to the Office of Water Enforcement and Permits, U.S. EPA, 401 M Street, S.W. Washington, D.C. 20460 (EN-336) for approval. Once a Part 1 application is approved, group applicants are to submit Part 2 of the group application to the Office of Water Enforcement and Permits. A group application shall consist of:

(i) <u>Part 1</u>. Part 1 of a group application shall:

(A) identify the participants in the group application by name and location. Facilities participating in the group application shall be listed in nine subdivisions, based on the facility location relative to the nine precipitation zones indicated in Appendix Figure D-1 to this Part.

(B) include a narrative description summarizing the industrial activities of participants of the group application and explaining why the participants, as a whole, are sufficiently similar to be a covered by a general permit;

(C) include a list of significant materials stored exposed to precipitation by participants in the group application and materials management practices employed to diminish contact by these materials with precipitation and storm water runoff;

(D) identify ten percent of the dischargers participating in the group application (with a minimum of 10 dischargers, and either a minimum of two dischargers from each precipitation zone indicated in Appendix Figure D-1 of this Part in which ten or more members of the group are located, or one discharger from each precipitation zone indicated in Appendix Figure D-1 of this Part in which nine or fewer members of the group are located) from which quantitative data will be submitted in Part 2. If more than 1,000 facilities are identified in a group application, no more than 100 dischargers must submit quantitative data in Part 2. Groups of between four and ten dischargers may be formed. However, in groups of between four and ten, at least half the facilities must submit quantitative data, and at least one facility in each precipitation zone in which members of the group are located must submit data. A description of why the facilities selected to perform sampling and analysis are representative of the group as a whole, in terms of the information provided in subparagraphs (i)(B) and (i)(C) of this paragraph, shall accompany this section. Different factors impacting the nature of the storm water discharges, such as processes used and material management, shall be represented, to the extent feasible, in a manner roughly equivalent to their proportion in the group.

(ii) <u>Part 2</u>. Part 2 of a group application shall contain quantitative data (NPDES Form 2F), as modified by paragraph (c)(1) of this section, so that when Part 1 and Part 2 of the group application are taken together, a complete NPDES application (Form 1, Form 2C, and Form 2F) can be evaluated for each discharger identified in paragraph (c)(2)(i)(D) of this section.



Source: Methodology for Analysis of Detention Basins for Control of Urban Runoff Quality, prepared for U.S. Environmental Protection Agency, Office of Water, Nonpoint Source Division, Washington, DC, 1986.

Note: Alaska and Hawaii are included in Zone 7. The Virgin Island and Puerto Rico are included in Zone 3.

Appendix Figure D-1. Rainfall Zones of the United States

# APPENDIX D.1: EPA REVIEW PROCEDURES FOR A GROUP APPLICATION

As shown in Figure 2-1, EPA Headquarters has 60 days to approve or deny the Part 1 application. When the Part 1 application is approved, group applicants are to submit Part 2 to the same address.

Part 2 of the group application must contain quantitative data (i.e., the data required in Form 2F) so that when Parts 1 and 2 of the group application are taken together, a complete NPDES permit application [Form 1, Form 2C (if necessary based on the criteria for use of this form), and Form 2F] can be evaluated for each of the dischargers designated in Item 4 of Part 1.

Although there in no such thing as a group permit, the data submitted by the group will be used to develop general permits or individual permits for all of the facilities participating in the group application (see Figure 2-1). EPA and NPDES States with general permit authority may develop a general permit that can then be modified as necessary for each industrial subcategory (e.g., based on SIC codes). NPDES States without general permitting authority can develop individual permits for the facilities participating in the group based on the information reported in the application. The group application process and related timeframes are summarized below:

- a) Part 1 of the application must be submitted to the Director, EPA Office of Water Enforcement and Permits, by September 30, 1991.
- b) Based on information submitted in Part 1 of the group application, EPA Headquarters will approve or deny the group coapplicants within 60 days after receipt.
- c) Part 2 of the application must be submitted to EPA, Office of Water Enforcement and Permits no later than May 18, 1992.
- d) A facility identified in the definition of "storm water associated with industrial activity" (summarized in Table 2-2) may add on to a group application submitted in accordance with item (2a) above at the discretion of the Office of Water Enforcement and Permits, and only upon a showing of good cause by the facility and the group applicant.
- e) Facilities identified in Table 2-2 may apply for a storm water discharge permit as part of a group application previously submitted in accordance with item (2a) above, if the application for the additional facility is made within 15 months from the date of publication of the final general permit rule; the addition of the facility shall not reduce the percentage of the facilities that are required to submit quantitative data below 10%, unless there are over 100 facilities in the group that are submitting quantitative data. Approval to become part of group application must be obtained from the group or the trade association representing the individual facilities and from the Office of Water Enforcement and Permits.

APPENDIX E:	NPDES PERMIT APPLICATION FORMS AND INSTRUCTIONS FOR THE PERMITTING PROCESS						
	Appendix E.1	Form 1					
	E.2	Form 2F					
	E.3	Form 2C					
	E.4	Form 2D					
	E.5	Form 2E					

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APPENDIX E.1: FORM 1

United States Environmental Protection Agency Office of Enforcement Washington, DC 20460

EPA Form 3510-1 Revised August 1990



# Application Form 1 - General Information

**Consolidated Permits Program** 

This form must be completed by all persons applying for a permit under EPA's Consolidated Permits Program. See the general instructions to Form 1 to determine which other application forms you will need.

DESCRIPTION OF CONSOLIDATED PERMIT APPLICATION FORMS	FORM 1 PACKAGE TABLE OF CONTENTS		
The Consolidated Permit Application Forms are:	Section A. General Instructions		
Form 1 - General Information (included in this part);	Section B. Instructions for Form 1		
Form 2 — Discharges to Surface Water (NPDES Permits):	Section C. Activities Which Do Not Require Permits		
2A. Publicly Owned Treatment Works (Reserved - not included in this package)	Section D. Glossery Form 1 <i>(two copies)</i>		
2B. Concentrated Animal Feeding Operations and Aquatic Animal Production Facilities (not included in this package),			
2C. Existing Manufacturing, Commercial, Mining, and Silvicultural Operations <i>(not included in this package)</i> , and			
2D. New Manufacturing, Commercial, Mining, and Silvicultural Operations ( <i>Reserved — not included in this package</i> );			
Form 3 — Hazardous Waste Application Form (RCRA Permits — not included in this package);			
Form 4 — Underground Injection of Fluids (UIC Permits - Re- served - not included in this package); and			
Form 5 — Air Emissions in Attainment Areas (PSD Permits — Re- served — not included in this package).			

# SECTION A - GENERAL INSTRUCTIONS

#### Who Must Apply

With the exceptions described in Section C of these instructions. Federal laws prohibit you from conducting any of the following activities without a permit.

NPDES (National Pollutant Discharge Elimination System Under the Clean Water Act, 33 U.S.C. 1251). Discharge of pollutants into the waters of the United States.

RCRA (Resource Conservation and Recovery Act, 42 U.S.C. 6901). Treatment, storage, or disposal of hazardous wastes.

UIC (Underground Injection Control Under the Safe Drinking Water Act, 42 U.S.C. 300f). Injection of fluids underground by gravity flow or pumping.

PSD (Prevention of Significant Deterioration Under the Clean Air Act, 72 U.S.C. 7401). Emission of an air pollutant by a new or modified facility in or near an area which has attained the National Ambient Air Quality Standards for that pollutant.

Each of the above permit programs is operated in any particular State by either the United States Environmental Protection Agency (EPA) or by an approved State agency. You must use this application form to apply for a permit for those programs administered by EPA. For those programs administered by approved States, contact the State environmental agency for the proper forms.

If you have any questions about whether you need a permit under any of the above programs, or if you need information as to whether a particular program is administered by EPA or a State agency, or if you eed to obtain application forms, contact your EPA Regional office (listed in Table 1).

Upon your request, and based upon information supplied by you, EPA will determine whether you are required to obtain a permit for a particular facility. Be sure to contact EPA if you have a question, because Federal laws provide that you may be heavily penalized if you do not apply for a permit when a permit is required.

Form 1 of the EPA consolidated application forms collects general information applying to all programs. You must fill out Form 1 regardless of which permit you are applying for. In addition, you must fill out one of the supplementary forms (Forms 2 - 5) for each permit needed under each of the above programs. Item II of Form 1 will guide you to the appropriate supplementary forms.

You should note that there are certain exclusions to the permit requirements listed above. The exclusions are described in detail in Section C of these instructions. If your activities are excluded from permit requirements then you do not need to complete and return any forms.

NOTE: Certain activities not listed above also are subject to EPA administered environmental permit requirements. These include permits for ocean dumping, dredged or fill material discharging, and certain types of air emissions. Contact your EPA Regional office for further information.

#### Table 1. Addresses of EPA Regional Contacts and States Within the **Regional Office Jurisdictions**

## **REGION I**

Permit Contact, Environmental and Economic Impact Office, U.S. Environmental Protection Agency, John F. Kennedy Building, Bos-ton, Massachusetts 02203, (617) 223-4635, FTS 223-4635. Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island,

and Vermont.

#### **REGION II**

Permit Contact, Permits Administration Branch, Room 432, U.S. Environmental Protection Agency, 26 Federal Plaza, New York, New York 10007, (212) 264–9880, FTS 264–9880. New Jersey, New York, Virgin Islands, and Puerto Rico.

#### **REGION III**

Permit Contact (3 EN 23), U.S. Environmental Protection Agency, 6th & Walnut Streets, Philadelphia, Pennsylvania 19106, (215) 597–8816, FTS 597–8816.

Delaware, District of Columbia, Maryland, Pennsylvania, Virginia, and West Virginia.

#### **REGION IV**

Permit Contact, Permits Section, U.S. Environmental Protection Agency, 345 Courtland Street, N.E., Atlanta, Georgia 30365, (404) 881-2017, FTS 257-2017.

Alabema, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, and Tennessee.

#### **REGION V**

Permit Contact (SEP), U.S. Environmental Protection Agency, 230 South Dearborn Street, Chicage, Illinois 60604, (312) 353-2105, FTS 353-2105.

Illinois, Indiana, Michigan, Minnesota, Ohio, and Wisconsin.

## Table 1 (continued)

#### **REGION VI**

Permit Contact (*GAEP*), U.S. Environmental Protection Agency, First International Building, 1201 Elm Street, Dallas, Texas 75270, (214) 767–2765, FTS 729–2765. Arkanses, Louisiana, New Mexico, Oklahoma, and Texas.

**REGION VII** 

Permit Contact, Permits Branch, U.S. Environmental Protection Agency, 324 East 11th Street, Kansas City, Missouri 64106, (816) 758-5955, FTS 758-5955. Iowa, Kansas, Missouri, and Nebraska.

### **REGION VIII**

Permit Contact (*8E–WE*), Suite 103, U.S. Environmental Protection Agency, 1860 Lincoln Street, Denver, Colorado 80295, (303) 837– 4901, FTS 327–4901.

Colorado, Montana, North Dakota, South Dakota, Utah, and Wyoming.

#### **REGION IX**

Permit Contact, Permits Branch (E-4), U.S. Environmental Protection Agency, 215 Fremont Street, San Francisco, California 94105, (415) 556-3450, FTS 556-3450.

Arizona, California, Hawaii, Nevada, Guam, American Samoa, and Trust Territories.

#### **REGION X**

Permit Contact (M/S 521), U.S. Environmental Protection Agency, 1200 6th Avenue, Seattle, Washington 98101, (206) 442-7176, FTS 399-7176.

Alaska, Idaho, Oregon, and Washington.

#### Where to File

The application forms should be mailed to the EPA Regional office whose Region includes the State in which the facility is located (see Table 1).

If the State in which the facility is located administers a Federal permit program under which you need a permit, you should contact the appropriate State agency for the correct forms. Your EPA Regional office (*Table 1)* can tell you to whom to apply and can provide the appropriate address and phone number.

#### When to File

Because of statutory requirements, the deadlines for filing applications very according to the type of facility you operate and the type of permit you need. These deadlines are as follows:<sup>1</sup>

#### **Table 2. Filing Dates for Permits**

FORM(permit)	WHEN TO FILE
2A(NPDES)	180 days before your present NPDES per- mit expires.
28(NPDES)	180 days before your present NPDES per- mit expires*, or 180 days prior to start- up if you are a new facility.
2C(NPDES)	<ul> <li>.180 days before your present NPDES per- mit expires<sup>a</sup>.</li> </ul>
20(NPDES)	180 days prior to startup.
3(Hazardous Waste)	. Existing facility: Six months following publication of regulations listing hazard- ous wastes. New facility: 180 days before commencing physical construction.

#### Table 2 (continued)

4(UIC)	 <ul> <li>reasonable</li> </ul>	time_prior	to	construction
	or new well	s; as directed	l by	the Director
	or existing w	refis.		
5(PSD)	 rior to con	hmencement	of	construction.

Please note that some of these forms are not yet available for use and are listed as "Reserved" at the beginning of these instructions. Contact your EPA Regional office for information on current application requirements and forms.

<sup>2</sup> If your present permit expires on or before November 30, 1980, the filing date is the date on which your permit expires. If your permit expires during the period December 1, 1980 – May 31, 1981, the filing date is 90 days before your permit expires.

Federal regulations provide that you may not begin to construct a new source in the NPDES program, a new hazardous waste management facility, a new injection well, or a facility covered by the PSD program before the issuance of a permit under the applicable program. Please note that if you are required to obtain a permit before beginning construction, as described above, you may need to submit your permit application well in advance of an applicable deadline listed in Table 2.

#### Fees

The U.S. EPA does not require a fee for applying for any permit under the consolidated permit programs. (However, some States which administer one or more of these programs require fees for the permits which they issue.)

#### Availability of Information to Public

Information contained in these application forms will, upon request, be made available to the public for inspection and copying. However, you may request confidential treatment for certain information which you submit on certain supplementary forms. The specific instructions for each supplementary form state what information on the form, if any, may be claimed as confidential and what procedures govern the claim. No information on Forms 1 and 2A through 2D may be claimed as confidential.

#### **Completion of Forms**

Unless otherwise specified in instructions to the forms, each item in each form must be answered. To indicate that each item has been considered, enter "NA," for not applicable, if a particular item does not fit the circumstances or characteristics of your facility or activity.

If you have previously submitted information to EPA or to an approved State agency which answers a question, you may either repeat the information in the space provided or attach a copy of the previous submission. Some items in the form require narrative explanation. If more space is necessary to answer a question, attach a separate sheet entitled "Additional Information."

#### **Financial Assistance for Pollution Control**

There are a number of direct loans, loan guarantees, and grants available to firms and communities for pollution control expenditures. These are provided by the Small Business Administration, the Economic Development Administration, the Farmers Home Administration, and the Department of Housing and Urban Development. Each EPA Regional office (Table 1) has an economic assistance coordinator who can provide you with additional information.

EPA's construction grants program under Title II of the Clean Water Act is an additional source of assistance to publicly owned treatment works. Contact your EPA Regional office for details.

#### This form must be completed by all applicants.

#### **Completing This Form**

Please type or print in the unshaded areas only. Some items have small graduation marks in the fill—in spaces. These marks indicate the number of characters that may be entered into our data system. The marks are spaced at 1/6" intervals which accommodate elite type (12 characters per inch). If you use another type you may ignore the marks. If you print, place each character between the marks. Abbreviate if necessary to stay within the number of characters allowed for each item. Use one space for breaks between words, but not for punctuation marks unless they are needed to clarify your response.

#### Item I

Space is provided at the upper right hand corner of Form 1 for insertion of your EPA Identification Number. If you have an existing facility, enter your Identification Number. If you don't know your EPA Identification Number, please contact your EPA Regional office (Table 1), which will provide you with your number. If your facility is new (not yet constructed), leave this item blank.

#### Item II

Answer each question to determine which supplementary forms you need to fill out. Be sure to check the glossary in Section D of these instructions for the legal definitions of the **bold faced words**. Check Section C of these instructions to determine whether your activity is excluded from permit requirements.

If you answer "no" to every question, then you do not need a permit, and you do not need to complete and return any of these forms.

If you answer "yes" to any question, then you must complete and file the supplementary form by the deadline listed in Table 2 along with this form. (The applicable form number follows each question and is enclosed in parentheses.) You need not submit a supplementary form if you already have a permit under the appropriate Federal program, unless your permit is due to expire and you wish to renew your permit.

Questions (1) and (J) of Item II refer to major new or modified sources subject to Prevention of Significant Deterioration (PSD) requirements under the Clean Air Act. For the purpose of the PSD program, major sources are defined as: (A) Sources listed in Table 3 which have the potential to emit 100 tons or more per year emissions; and (B) All other sources with the potential to emit 250 tons or more per year. See Section C of these instructions for discussion of exclusions of certain modified sources.

#### Table 3. 28 Industrial Categories Listed in Section 169(1) of the Clean Air Act of 1977

Fossil fuel-fired steam generators of more than 250 million BTU per hour heat input: Coal cleaning plants (with thermal dryers); Kraft pulp mills; Portland cement plants; Primary zinc smelters; Iron and steel mill plants; Primary aluminum ore reduction plants; Primary copper smelters; Municipal incinerators capable of charging more than 250 tons of refuse per day; Hydrofluoric acid plants; Nitric acid plants; Sulfuric acid plants; Petroleum refineries; Lime plants; Phosphate rock processing plants; Coke oven betteries: Sulfur recovery plants: Carbon black plants (furnace process); Primary lead smelters; Fuel conversion plants; Sintering plants; Secondary metal production plants; Chemical process plants; Fossil fuel boilers (or combination thereof) totaling more than 250 million BTU per hour heat input;

## Table 3 (continued)

Petroleum storage and transfer units with a total storage capacity exceeding 300,000 barrels; Taconite ore processing plants; Glass fiber processing plants; and Charcoal production plants.

#### Item III

Enter the facility's official or legal name. Do not use a colloquial name,

#### Item IV

Give the name, title, and work telephone number of a person who is thoroughly familiar with the operation of the facility and with the facts reported in this application and who can be contacted by reviewing offices if necessary.

#### Item V

Give the complete mailing address of the office where correspondence should be sent. This often is not the address used to designate the location of the facility or activity.

#### Item VI

Give the address or location of the facility identified in Item III of this form. If the facility lacks a street name or route number, give the most accurate alternative geographic information (e.g., section number or quarter section number from county records or at intersection of Rts. 425 and 22).

## Item VII

List, in descending order of significance, the four 4-digit standard industrial classification (S/C) codes which best describe your facility in terms of the principal products or services you produce or provide. Also, specify each classification in words. These classifications may differ from the SIC codes describing the operation generating the discharge, air emissions, or hazardous westes.

SIC code numbers are descriptions which may be found in the "Standard Industrial Classification Manual" prepared by the Executive Office of the President, Office of Management and Budget, which is available from the Government Printing Office, Washington, D.C. Use the current edition of the manual. If you have any questions concerning the appropriate SIC code for your facility, contact your EPA Regional office (see Table 1).

## Item VIII-A

Give the name, as it is legally referred to, of the person, firm, public organization, or any other entity which operates the facility described in this application. This may or may not be the same name as the facility. The operator of the facility is the legal entity which controls the facility's operation rather than the plant or site manager. Do not use a colloquial name.

#### Item VIII-B

Indicate whether the entity which operates the facility also owns it by marking the appropriate box.

#### item VIII--C

Enter the appropriate letter to indicate the legal status of the operator of the facility. Indicate "public" for a facility solely owned by local government(s) such as a city, town, county, perish, etc.

### Items VIII-D - H

Enter the telephone number and address of the operator identified in Item VIII-A.

## Item IX

Indicate whether the facility is located on Indian Lands.

#### Item X

Give the number of each presently effective permit issued to the facility for each program or, if you have previously filed an application but have not yet received a permit, give the number of the application, if any. Fill in the unshaded area only. If you have more than one currently effective permit for your facility under a particular permit program, you may list additional permit numbers on a separate sheet of paper. List any relevant environmental Federal (e.g., permits under the Ocean Dumping Act, Section 404 of the Clean Water Act or the Surface Mining Control and Reclamation Act), State (e.g., State permits for new air emission sources in nonattainment areas under Part D of the Clean Air Act or State permits under Section 404 of the Clean Water Act), or local permits or applications under "other."

#### item XI

Provide a topographic map or maps of the area extending at least to one mile beyond the property boundaries of the facility which clearly show the following:

The legal boundaries of the facility;

The location and serial number of each of your existing and proposed intake and discharge structures;

All hazardous waste management facilities;

Each well where you inject fluids underground; and

All springs and surface water bodies in the area, plus all drinking water wells within 1/4 mile of the facility which are identified in the public record or otherwise known to you.

If an intake or discharge structure, hazardous waste disposal site, or injection well associated with the facility is located more than one mile from the plant, include it on the map, if possible. If not, attach additional sheets describing the location of the structure, disposal site, or well, and identify the U.S. Geological Survey (or other) map corresponding to the location.

On each map, include the map scale, a meridian arrow showing north, and latitude and iongitude at the nearest whole second. On all maps of rivers, show the direction of the current, and in tidal waters, show the directions of the ebb and flow tides. Use a 7-1/2 minute series map published by the U.S. Geological Survey, which may be obtained through the U.S. Geological Survey, which may be obtained through the U.S. Geological Survey Offices listed below. If a 7-1/2 minute series map has not been published for your facility site, then you may use a 15 minute series map from the U.S. Geological Survey. If neither a 7-1/2 nor 15 minute series map has been published for your facility site, use a plat map or other appropriate map, including all the requested information; in this case, briefly describe land uses in the map area (e.g., residential, commercial).

You may trace your map from a geological survey chart, or other map meeting the above specifications. If you do, your map should bear a note showing the number or title of the map or chart it was traced from. Include the names of neerby towns, water bodies, and other prominent points. An example of an acceptable location map is shown in Figure 1-1 of these instructions. (NOTE: Figure 1-1 is provided for purposes of illustration only, and does not represent any actual facility.)

U.S.G.S. OFFICES	AREA SERVED
Eastern Mapping Center	Ala., Conn., Del., D.C., Fia.
National Cartographic Information	Ga., Ind., Ky., Maine, Md.,
Center	Mass., N.H., N.J., N.Y., N.C.
U.S.G.S.	S.C., Ohio, Pa., Puerto Rico
536 National Center	R.I., Tenn., Vt., Va., W. Va.
Reston, Va. 22092	and Virgin Islands.
Phone No. (703) 860-6336	-

## Item XI (continued)

Mid Continent Mapping Canter National Cartographic Information Center U.S.G.S. 1400 Independence Road Rolla, Mo. 65401 Phone No. (314) 341–0851

Rocky Mountain Mapping Canter National Cartographic Infomation Center U.S.G.S. Stop 504, Box 25046 Federal Center Denver, Co. 80225 Phone No. (303) 234–2326

Western Mapping Center National Cartographic Information Center U.S.G.S. 345 Middlefield Road Menlo Park, Ca. 94025 Phone No. (415) 323-8111 Ark., III., Iowa, Kans., La., Mich., Minn., Miss., Mo., N. Dak., Nebr., Okla., S. Dak., and Wis.

Alaska, Colo., Mont., N. Mex., Tex., Utah, and Wyo.

Ariz., Calif., Hawaii, Idaho, Nev., Oreg., Wash., American Samoa, Guam, and Trust Territories

#### Item XII

Briefly describe the nature of your business (e.g., products produced or services provided).

#### Item XIII

Federal statues provide for severe penalties for submitting false information on this application form.

18 U.S.C. Section 1001 provides that "Whoever, in any matter within the jurisdiction of any department or agency of the United States knowingly and willfully falsifies, conceals or covers up by any trick, scheme, or device a material fact, or makes or uses any false writing or document knowing same to contain any false, fictitious or fraudulent statement or entry, shall be fined not more than \$10,000 or imprisoned not more than five years, or both."

Section 309(c)(2) of the Clean Water Act and Section 113(c)(2) of the Clean Air Act each provide 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."

In addition, Section 3008(d)(3) of the Resource Conservation and Recovery Act provides for a fine up to \$25,000 per day or imprisonment up to one year, or both, for a first conviction for making a false statement in any application under the Act, and for double these penalties upon subsequent convictions.

FEDERAL REGULATIONS REQUIRE THIS APPLICATION TO BE SIGNED AS FOLLOWS:

A. For a corporation, by a principal executive officer of at least the level of vice president. However, if the only activity in Itam II which is marked "yes" is Question G, the officer may authorize a person having responsibility for the overall operations of the well or well field to sign the certification. In that case, the authorization must be written and submitted to the permitting authority.

8. For partnership or sole proprietorship, by a general partner or the proprietor, respectively; or

C. For a municipality, State, Federal, or other public facility, by either a principal executive officer or ranking elected official.

## SECTION C - ACTIVITIES WHICH DO NOT REQUIRE PERMITS

1. National Pollutant Discharge Elimination System Permits Under the Clean Water Act. You are not required to obtain an NPDES permit if your discharge is in one of the following categories, as provided by the Clean Water Act (CWA) and by the NPDES regulations (40 CFR Parts 122-125). However, under Section 510 of CWA a discharge exempted from the federal NPDES requirements may still be regulated by a State authority; contact your State environmental agency to determine whether you need a State permit.

A. DISCHARGES FROM VESSELS. Discharges of sewage from vessels, effluent from properly functioning marine engines, laundry, shower, and galley sink wastes, and any other discharge incidental to the normal operation of a vessel do not require NPDES permits. However, discharges of rubbish, trash, garbage, or other such materials discharged overboard require permits, and so do other discharges when the vessel is operating in a capacity other than as means of transportation, such as when the vessel is being used as an energy or mining facility, a storage facility, or a seafood processing facility, or is secured to the bed of the ocean, contiguous zone, or waters of the United States for the purpose of mineral or oil exploration or development.

8. DREDGED OR FILL MATERIAL. Discharges of dredged or fill material into waters of the United States do not need NPDES permits if the dredging or filling is authorized by a permit issued by the U.S. Army Corps of Engineers or an EPA approved State under Section 404 of CWA.

C. DISCHARGES INTO PUBLICLY OWNED TREATMENT WORKS (POTW). The introduction of sewage, industrial wastes, or other pollutants into a POTW does not need an NPDES permit. You must comply with all applicable pretreatment standards promulgated under Section 307(b) of CWA, which may be included in the permit issued to the POTW. If you have a plan or an agreement to switch to a POTW in the future, this does not relieve you of the obligation to apply for and receive an NPDES permit until you have stopped discharging pollutants into waters of the United States.

(NOTE: Dischargers into privately owned treatment works do not have to apply for or obtain NPDES permits except as otherwise required by the EPA Regional Administrator. The owner or operator of the treatment works itself, however, must apply for a permit and identify all users in its application. Users so identified will receive public notice of actions taken on the permit for the treatment works.)

D. DISCHARGES FROM AGRICULTURAL AND SILVICULTUR-AL ACTIVITIES. Most discharges from agricultural and silvicultural activities to waters of the United States do not require NPDES permits. These include runoff from orchards, cultivated crops, pastures, range lands, and forest lands. However, the discharges listed below do require NPDES permits. Definitions of the terms listed below are contained in the Glossary section of these instructions.

1. Discharges from Concentrated Animal Feeding Operations. (See Glossery for definitions of "animal feeding operations" and "concentrated animal feeding operations." Only the latter require permits.)

2. Discharges from Concentrated Aquatic Animal Production Facilities, (See Glossary for size cutoffs.)

3. Discharges associated with approved Aquaculture Projects.

4. Discharges from Silvicultural Point Sources. (See Glossary for the definition of "silvicultural point source.") Nonpoint source silvicultural activities are excluded from NPDES permit requirements. However, some of these activities, such as stream crossings for roads, may involve point source discharges of dredged or fill material which may require a Section 404 permit. See 33 CFR 209.120.

E. DISCHARGES IN COMPLIANCE WITH AN ON-SCENE CO-ORDINATOR'S INSTRUCTIONS. 11, Hazardous Waste Permits Under the Resource Conservation and Recovery Act. You may be excluded from the requirement to obtain a permit under this program if you fall into one of the following categories:

Generators who accumulate their own hazardous waste on-site for less than 90 days as provided in 40 CFR 262,34;

Farmers who dispose of hazardous waste pesticide from their own use as provided in 40 CFR 262.51;

Certain persons treating, storing, or disposing of small quantities of hazardous waste as provided in 40 CFR 261.4 or 261.5; and

Owners and operators of totally enclosed treatment facilities as defined in 40 CFR 260.10.

Check with your Regional office for details. Please note that even if you are excluded from permit requirements, you may be required by Federal regulations to handle your waste in a perticular manner.

III. Underground Injection Control Permits Under the Safe Drinking Water Act. You are not required to obtain a permit under this program if you:

Inject into existing wells used to enhance recovery of oil and gas or to store hydrocarbons (note, however, that these underground injections are regulated by Federal rules); or

Inject into or above a stratum which contains, within 1/4 mile of the well bore, an underground source of drinking water (unless your injection is the type identified in Item II-H, for which you do need a permit). However, you must notify EPA of your injection and submit certain required information on forms supplied by the Agency, and your operation may be phased out if you are a generator of hazardous wastes or a hazardous waste management facility which uses wells or septic tanks to dispose of hazardous waste.

IV. Prevention of Significant Deterioration Permits Under the Clean Air Act. The PSD program applies to newly constructed or modified facilities (both of which are referred to as "new sources") which increase air emissions. The Clean Air Act Amendments of 1977 exclude small new sources of air emissions from the PSD review program. Any new source in an industrial category listed in Table 3 of these instructions whose potential to emit is less than 100 tons per year is not required to get a PSD permit. In addition, any new source in an industrial category not listed in Table 3 whose potential to emit is less than 250 tons per year is exempted from the PSD requirements.

Modified sources which increase their net emissions (the difference between the total emission increases and total emission decreases at the source) less than the significant amount set forth in EPA regulations are also exempt from PSD requirements. Contact your EPA Regional office (Table 1) for further information.

## SECTION D - GLOSSARY

NOTE: This Glossary includes terms used in the instructions and in Forms 1, 2B, 2C, and 3. Additional terms will be included in the future when other forms are developed to reflect the requirements of other parts of the Consolidated Permits Program. If you have any questions concerning the meaning of any of these terms, please contact your EPA Regional office (Table 1).

ALIQUOT meens a sample of specified volume used to make up a total composite sample.

ANIMAL FEEDING OPERATION means a lot or facility *(other than an aquatic animal production facility)* where the following conditions are met:

A. Animals *(other than aquatic animals)* have been, are, or will be stabled or confined and fed or maintained for a total of 45 days or more in any 12 month period; and

B. Crops, vegetation, forage growth, or post-harvest residues are not sustained in the normal growing season over any portion of the lot or facility.

Two or more animal feeding operations under common ownership are a single animal feeding operation if they adjoin each other or if they use a common area or system for the disposal of wastes.

ANIMAL UNIT means a unit of measurement for any animal feeding operation calculated by adding the following numbers: The number of slaughter and feeder cattle multiplied by 1.0; Plus the number of mature dairy cattle multiplied by 1.4; Plus the number of swing over 25 kilograms (approximately 55 pounds) multiplied by 0.4; Plus the number of sheep multiplied by 0.1; Plus the number of horses multiplied by 2.0.

APPLICATION means the EPA standard national forms for applying for a permit, including any additions, revisions, or modifications to the forms; or forms approved by EPA for use in approved States, including any approved modifications or revisions. For RCRA, "application" also means "Application, Part B."

APPLICATION, PART A means that part of the Consolidated Permit Application forms which a RCRA permit applicant must complete to qualify for interim status under Section 3005(e) of RCRA and for consideration for a permit. Part A consists of Form 1 (General Information) and Form 3 (Hazardous Waste Application Form).

APPLICATION, PART B means that part of the application which a RCRA permit applicant must complete to be issued a permit. (NOTE: EPA is not developing a specific form for Part B of the permit application, but an instruction booklet explaining what information must be supplied is available from the EPA Regional office.)

APPROVED PROGRAM or APPROVED STATE means a State program which has been approved or authorized by EPA under 40 CFR Part 123.

AQUACULTURE PROJECT means a defined managed water area which uses discharges of pollutants into that designated area for the maintenance or production of harvestable freshwater, estuarine, or marine plants or animals. "Designated area" means the portions of the waters of the United States within which the applicant plans to confine the cultivated species, using a method of plan or operation *fincluding, but not limited to, physical confinement)* which, on the basis of reliable scientific evidence, is expected to ensure the specific individual organisms comprising an aquaculture crop will enjoy increased growth attributable to the discharge of pollutants and be harvested within a defined geographic area.

AQUIFER means a geological formation, group of formations, or part of a formation that is capable of yielding a significant amount of water to a well or spring.

AREA OF REVIEW means the area surrounding an injection well which is described according to the criteria set forth in 40 CFR Section 146.06.

AREA PERMIT means a UIC permit applicable to all or certain wells within a geographic area, rather than to a specified well, under 40 CFR Section 122.37.

ATTAINMENT AREA means, for any air pollutant, an area which has been designated under Section 107 of the Clean Air Act as having ambient air quality levels batter than any national primary or secondary ambient air quality standard for that pollutant. Standards have been set for sulfur oxides, particulate matter, nitrogen dioxide, carbon monoxide, ozone, lead, and hydrocarbons. For purposes of the Glossary, "attainment area" also refers to "unclassifiable area," which means, for any pollutants, an area designated under Section 107 as unclassifiable with respect to that pollutant due to insufficient information.

BEST MANAGEMENT PRACTICES (BMP) means schedules of activities, prohibitions of practices, maintenance procedures, and other management practices to prevent or reduce the pollution of waters of the United States, BMP's include treatment requirements, operation procedures, and practices to control plant site runoff, spillage or leaks, sludge or waste disposal, or drainage from raw material storage.

BIOLOGICAL MONITORING TEST means any test which includes the use of aquatic algal, invertebrate, or vertebrate species to measure acute or chronic toxicity, and any biological or chemical measure of bioaccumulation.

BYPASS means the intentional diversion of wastes from any any portion of a treatment facility,

CONCENTRATED ANIMAL FEEDING OPERATION means an animal feeding operation which meets the criteria set forth in either (A) or (B) below or which the Director designates as such on a case-by-case basis:

A. More than the numbers of animals specified in any of the following categories are confined:

1. 1,000 slaughter or feeder cattle,

2. 700 mature dairy cattle (whether milked or dry cows),

3. 2,500 swine each weighing over 25 kilograms (approximately 55 pounds),

- 4. 500 horses,
- 5, 10,000 sheep or lambs,
- 6. 55,000 turkeys,

7. 100,000 laying hers or broilers (if the facility has a continuous overflow watering),

8. 30,000 laying hens or broilers (if the facility has a liquid manure handling system),

10. 1,000 animal units; or

B. More than the following numbers and types of animals are confined:

- 1. 300 slaughter or feeder cattle,
- 2. 200 mature dairy cattle (whether milked or dry cows),

3. 750 swine each weighing over 25 kilograms (approximately 55 pounds),

4. 150 horses,

<sup>9. 5,000</sup> ducks, or

## CONCENTRATED ANIMAL FEEDING OPERATION (continued)

5. 3,000 sheep or lambs,

6. 16,500 turkeys,

7. 30,000 laying hens or broilers (if the facility has continuous overflow watering),

8. 9,000 laying hens or broilers (if the facility has a liquid manure handling system),

9. 1,500 ducks, or

10, 300 animal units; AND

Either one of the following conditions are met: Pollutants are discharged into waters of the United States through a manmade ditch, flushing system or other similar manmade device ("manmade" means constructed by man and used for the purpose of transporting westes); or Pollutants are discharged directly into waters of the Unites States which originate outside of and pass over, across, or through the facility or otherwise come into direct contact with the animals confined in the operation.

Provided, however, that no animal feeding operation is a concentrated animal feeding operation as defined above if such animal feeding operation discharges only in the event of a 25 year, 24 hour storm event,

CONCENTRATED AQUATIC ANIMAL PRODUCTION FACILITY means a hatchery, fish farm, or other facility which contains, grows or holds aquatic animals in either of the following categories, or which the Director designates as such on a case—by—case basis:

A. Cold water fish species or other cold water aquatic animals including, but not limited to, the Salmonidae family of fish *(e.g., trout and salmon)* in ponds, raceways or other similar structures which discharge at least 30 days per year but does not include:

1. Facilities which produce less than 9,090 harvest weight kilograms (approximately 20,000 pounds) of aquatic animals per year; and

2. Facilities which feed less than 2,272 kilograms *(approximately 5,000 pounds)* of food during the calendar month of maximum feeding.

B. Warm water fish species or other warm water aquatic animals including, but not limited to, the Ameiuridae, Cetrarchidae, and Cyprinidae families of fish (e.g., respectively, catfish, sunfish, and minnows) in ponds, raceways, or other similar structures which discharge at least 30 days per year, but does not include:

1. Closed ponds which discharge only during periods of excess runoff; or

2. Facilities which produce less than 45,454 harvest weight kilograms (approximately 100,000 pounds) of aquatic animals per year.

CONTACT COOLING WATER means water used to reduce temperature which comes into contact with a raw material, intermediate product, waste product other than heat, or finished product.

CONTAINER means any portable device in which a material is stored, transported, treated, disposed of, or otherwise handled.

CONTIGUOUS ZONE means the entire zone established by the United States under article 24 of the convention of the Territorial Sea and the Contiguous Zone.

CWA means the Clean Water Act (formerly referred to the Federal Water Pollution Control Act) Pub. L. 92–500, as amended by Pub. L. 95–217 and Pub. L. 95–576, 33 U.S.C. 1251 et seq.

DIKE means any embankment or ridge of either natural or manmade materials used to prevent the movement of liquids, sludges, solids, or other materials.

DIRECT DISCHARGE means the discharge of a pollutant as defined below.

DIRECTOR means the EPA Regional Administrator or the State Director as the context requires.

DISCHARGE (OF A POLLUTANT) means:

A. Any addition of any pollutant or combination of pollutants to waters of the United States from any point source; or

B. Any addition of any pollutant or combination of pollutants to the waters of the contiguous zone or the ocean from any point source other than a vessel or other floating craft which is being used as a means of transportation.

This definition includes discharges into waters of the United States from: Surface runoff which is collected or channelled by man; Discharges through pipes, sewers, or other conveyances owned by a State, municipality, or other person which do not lead to POTW's; and Discharges through pipes, sewers, or other conveyances, leading into privately owned treatment works. This term does not include an addition of pollutants by any indirect discharger.

DISPOSAL (in the RCRA program) means the discharge, deposit, injection, dumping, spilling, leaking, or placing of any hazardous waste into or on any land or water so that the hazardous waste or any constituent of it may enter the environment or be emitted into the air or discharged into any waters, including ground water.

DISPOSAL FACILITY means a facility or part of a facility at which hazardous waste is intentionally placed into or on land or water, and at which hazardous waste will remain after closure.

EFFLUENT LIMITATION means any restriction imposed by the Director on quantities, discharge rates, and concentrations of pollutants which are discharged from point sources into waters of the United States, the waters of the continguous zone, or the ocean.

EFFLUENT LIMITATION GUIDELINE means a regulation published by the Administrator under Section 304(b) of the Clean Water Act to adopt or revise effluent limitations.

ENVIRONMENTAL PROTECTION AGENCY (EPA) means the United States Environmental Protection Agency.

EPA IDENTIFICATION NUMBER means the number assigned by EPA to each generator, transporter, and facility.

EXEMPTED AQUIFER means an aquifer or its portion that meets the criteria in the definition of USDW, but which has been exempted according to the procedures in 40 CFR Section 122.35(b).

EXISTING HWM FACILITY means a Hazardous Waste Management facility which was in operation, or for which construction had commenced, on or before October 21, 1976. Construction had commenced if (A) the owner or operator had obtained all necessary Federal, State, and local preconstruction approvals or permits, and either (B1) a continuous on-site, physical construction program had begun, or (B2) the owner or operator had entered into contractual obligations, which could not be cancelled or modified withhout substantial loss, for construction of the facility to be completed within a reasonable time.

(NOTE: This definition reflects the literal language of the statute. However, EPA believes that amendments to RCRA now in conference will shortly be enacted and will change the date for determining when a facility is an "existing facility" to one no earlier than May of 1980; indications are the conferees are considering October 30, 1980. Accordingly, EPA encourages every owner or operator of a facility which was built or under construction as of the promulgation date of the RCRA program regulations to file Part A of its permit application so that it can be quickly processed for interim status when the change in the law takes effect. When those amendments are enacted, EPA will amend this definition.)

EXISTING SOURCE or EXISTING DISCHARGER (in the NPDES program) means any source which is not a new source or a new discharger.

EXISTING INJECTION WELL means an injection well other than a new injection well.

FACILITY means any HWM facility, UIC underground injection well, NPDES point source, PSD stationary source, or any other facility or activity *(including land or appurtenances thereto)* that is subject to regulation under the RCRA, UIC, NPDES, or PSD programs.

FLUID means material or substance which flows or moves whether in a semisolid, liquid, sludge, gas, or any other form or state.

GENERATOR means any person by site, whose act or process produces hazardous waste identified or listed in 40 CFR Part 261.

GROUNDWATER means water below the land surface in a zone of saturation.

HAZARDOUS SUBSTANCE means any of the substances designated under 40 CFR Part 116 pursuant to Section 311 of CWA. (NOTE: These substances are listed in Table 2c-4 of the instructions to Form 2C.)

HAZARDOUS WASTE means a hazardous waste as defined in 40 CFR Section 261.3 published May 19, 1980.

HAZARDOUS WASTE MANAGEMENT FACILITY (HWM facility) means all contiguous land, structures, appurtenances, and improvements on the land, used for treating, storing, or disposing of hazardous wastes. A facility may consist of several treatment, storage, or disposal operational units (for example, one or more landfills, surface impoundments, or combinations of them).

IN OPERATION means a facility which is treating, storing, or disposing of hazardous waste.

INCINERATOR (in the RCRA program) means an enclosed device using controlled flame combustion, the primary purpose of which is to thermally break down hazardous waste. Examples of incinerators are rotary kiln, fluidized bed, and liquid injection incinerators.

INDIRECT DISCHARGER means a nondomestic discharger introducing pollutants to a publicly owned treatment works.

INJECTION WELL means a well into which fluids are being injected.

INTERIM AUTHORIZATION means approval by EPA of a State hazardous waste program which has met the requirements of Section 3006(c) of RCRA and applicable requirements of 40 CFR Part 123, Subparts A, B, and F.

LANDFILL means a disposal facility or part of a facility where hazardous waste is placed in or on land and which is not a land treatment facility, a surface impoundment, or an injection well.

LAND TREATMENT FACILITY (in the RCRA program) means a facility or part of a facility at which hazardous waste is applied onto or incorporated into the soil surface; such facilities are disposal facilities if the waste will remain after closure.

LISTED STATE means a State listed by the Administrator under Section 1422 of SDWA as needing a State UIC program.

MGD means millions of gallons per day.

MUNICIPALITY means a city, village, town, borough, county, parish, district, association, or other public body created by or under State law and having jurisdiction over disposal of sewage, industrial waetes, or other wastes, or an Indian tribe or an authorized Indian tribal organization, or a designated and approved management agency under Section 208 of CWA. NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) means the national program for issuing modifying, revoking and reissuing, terminating, monitoring, and enforcing permits and imposing and enforcing pretreatment requirements, under Sections 307, 318, 402, and 405 of CWA. The term includes an approved program.

NEW DISCHARGER means any building, structure, facility, or installation: (A) From which there is or may be a new or additional discharge of pollutants at a site at which on October 18, 1972, it had never discharged pollutants; (B) Which has never received a finally effective NPDES permit for discharges at that site; and (C) Which is not a "new source." This definition includes an indirect discharger which commences discharging into waters of the United States. It also includes any existing mobile point source, such as an offshore oil drilling rig, seafood processing vessel, or aggregate plant that begins discharging at a location for which it does not have an existing permit.

NEW HWM FACILITY means a Hazardous Waste Management facility which began operation or for which construction commenced after October 21, 1976.

NEW INJECTION WELL means a well which begins injection after a UIC program for the State in which the well is located is approved.

NEW SOURCE (in the NPDES program) means any building, structure, facility, or installation from which there is or may be a discharge of pollutants, the construction of which commenced:

A. After promulgation of standards of performance under Section 306 of CWA which are applicable to such source; or

B. After proposal of standards of performance in accordance with Section 306 of CWA which are applicable to such source, but only if the standards are promulgated in accordance with Section 306 within 120 days of their proposal.

NON-CONTACT COOLING WATER means water used to reduce temperature which does not come into direct contact with any raw material, intermediate product, waste product (other than heet), or finished product.

OFF-SITE means any site which is not "on-site."

ON-SITE means on the same or geographically contiguous property which may be divided by public or private right(s)-of-way, provided the entrance and exit between the properties is at a cross-roads intersection, and access is by crossing as opposed to going along, the right(s)-of-way. Non-contiguous properties owned by the same person, but connected by a right-of-way which the person controls and to which the public does not have access, is also considered on-site property.

OPEN BURNING means the combustion of any material without the following characteristics:

A. Control of combustion air to maintain adequate temperature for efficient combustion;

B. Containment of the combustion-reaction in an enclosed device to provide sufficient residence time and mixing for complete combustion; and

C. Control of emission of the gaseous combustion products.

(See also "incinerator" and "thermal treatment").

OPERATOR means the person responsible for the overall operation of a facility.

OUTFALL means a point source.

OWNER means the person who owns a facility or part of a facility.

PERMIT means an authorization, license, or equivalent control document issued by EPA or an approved State to implement the requirements of 40 CFR Parts 122, 123, and 124.

PHYSICAL CONSTRUCTION (in the RCRA program) means excavation, movement of earth, erection of forms or structures, or similar activity to prepare a HWM facility to accept hazardous waste.

PILE means any noncontainerized accumulation of solid, nonflowing hazardous waste that is used for treatment or storage.

POINT SOURCE means any discernible, confined, and discrete conveyance, including but not limited to any pipe, ditch, channel, tunnel, conduit, well, discrete fissure, container, rolling stock, concentrated animal feeding operation, vessel or other floating craft from which pollutants are or may be discharged. This term does not include return flows from irrigated agriculture.

POLLUTANT means dredged spoil, solid waste, incinerator residue, filter backwash, sewage, garbage, sewage sludge, munitions, chemical waste, biological materials, radioactive materials (except those regulated under the Atomic Energy Act of 1954, as amended [42 U.S.C. Section 2011 et aeq.]), heat, wrecked or discarded equipment, rocks, sand, cellar dirt and industrial, municipal, and agriculture waste discharged into water. It does not mean:

A. Sewage from vessels; or

B. Water, gas, or other material which is injected into a well to facilitate production of oil or gas, or water derived in association with oil and gas production and disposed of in a well, if the well used either to facilitate production or for disposal purposes is approved by authority of the State in which the well is located, and if the State determines that the injection or disposal will not result in the degradation of ground or surface water resources.

(NOTE: Radioactive materials covered by the Atomic Energy Act are those encompassed in its definition of source, byproduct, or special nuclear materials. Examples of materials not covered include radium and accelerator produced isotopes. See Train v. Colorado Public Interest Research Group, Inc., 426 U.S. 1 [1976].)

PREVENTION OF SIGNIFICANT DETERIORATION (PSD) means the national permitting program under 40 CFR 52.21 to prevent emissions of certain pollutants regulated under the Clean Air Act from significantly deteriorating air quality in attainment areas.

PRIMARY INDUSTRY CATEGORY means any industry category listed in the NRDC Settlement Agreement (Natural Resources Defense Council v. Trein, 8 ERC 2120 [D.D.C. 1976], modified 12 ERC 1833 [D.D.C. 1979]].

PRIVATELY OWNED TREATMENT WORKS means any device or system which is: (A) Used to treat wastes from any facility whose operator is not the operator of the treatment works; and (B) Not a POTW.

PROCESS WASTEWATER means any water which, during manufacturing or processing, comes into direct contact with or results from the production or use of any raw material, intermediate product, finished product, byproduct, or waste product.

PUBLICLY OWNED TREATMENT WORKS or POTW means any device or system used in the treatment (including recycling and reclamation) of municipal sewage or industrial wastes of a liquid nature which is owned by a State or municipality. This definition includes any sewers, pipes, or other conveyances only if they convey wastewater to a POTW providing treatment.

RENT means use of another's property in return for regular payment.

RCRA means the Solid Waste Disposal Act as amended by the Resource Conservation and Recovery Act of 1976 (Pub. L. 94-580, as amended by Pub. L. 95-609, 42 U.S.C. Section 6901 et seq.). ROCK CRUSHING AND GRAVEL WASHING FACILITIES are facilities which process crushed and broken stone, gravel, and riprap (see 40 CFR Part 436, Subpart B, and the effluent limitations guidelines for these facilities).

SDWA means the Safe Drinking Water Act (Pub. L. 95-523, as amended by Pub. L. 95-1900, 42 U.S.C. Section 300[f] et seq.).

SECONDARY INDUSTRY CATEGORY means any industry category which is not a primary industry category.

SEWAGE FROM VESSELS means human body wastes and the wastes from tiolets and other receptacles intended to receive or retain body wastes that are discharged from vessels and regulated under Section 312 of CWA, except that with respect to commercial vessels on the Great Lakes this term includes graywater. For the purposes of this definition, "graywater" means galley, bath, and shower water.

SEWAGE SLUDGE means the solids, residues, and precipitate separated from or created in sewage by the unit processes of a POTW. "Sewage" as used in this definition means any wastes, including wastes from humans, households, commercial establishments, industries, and storm water runoff, that are discharged to or otherwise enter a publicly owned treatment works.

SILVICULTURAL POINT SOURCE means any discernable, confined, and discrete conveyance related to rock crushing, gravel washing, log sorting, or log storage facilities which are operated in connection with silvicultural activities and from which pollutants are discharged into waters of the United States. This term does not include nonpoint source silvicultural activities such as nursery operations, site preparation, reforestation and subsequent cultural treatment, thinning, prescribed burning, pest and fire control, harvesting operations, surface drainage, or road construction and maintenance from which there is natural runoff. However, some of these activities (such as stream crossing for roads) may involve point source discharges of dredged or fill material which may require a CWA Section 404 permit. "Log sorting and log storage facilities" are facilities whose discharges result from the holding of unprocessed wood, e.g., logs or roundwood with bark or after removal of bark in self—contained bodies of water (mill ponds or log ponds) or stored on land where water is applied intentionally on the logs (wet decking). (See 40 CFR Part 429, Subpart J, and the effiuant limitations guidelines for these facilities.)

STATE means any of the 50 States, the District of Columbia, Guam, the Commonwealth of Puerto Rico, the Virgin Islands, American Samos, the Trust Territory of the Pacific Islands *(except in the case of RCRA)*, and the Commonwealth of the Northern Mariana Islands *(except in the case of CWA)*.

STATIONARY SOURCE (in the PSD program) means any building, structure, facility, or installation which emits or may emit any air pollutant regulated under the Clean Air Act. "Building, structure, facility, or installation" means any grouping of pollutant-emitting activities which are located on one or more contiguous or adjacent properties and which are owned or operated by the same person (or by persons under common control).

STORAGE (in the RCRA program) means the holding of hazardous waste for a temporary period at the end of which the hazardous waste is treated, disposed, or stored elsewhere.

STORM WATER RUNOFF means water discharged as a result of rain, snow, or other precipitation.

SURFACE IMPOUNDMENT or IMPOUNDMENT means a facility or part of a facility which is a natural topographic depression, manmade excavation, or diked area formed primarily of earthen materials (although it may be lined with manmade materials), which is designed to hold an accumulation of liquid wastes or wastes containing free liquids, and which is not an injection well. Examples of surface impoundments are holding, storage, settling, and aeration pits, ponds, and lagoons.

TANK (in the RCRA program) means a stationary device, designed to contain an accumulation of hazardous waste which is constructed premarily of non-earthen materials (e.g., wood, concrete, steel, plastic) which provide structural support. THERMAL TREATMENT (in the RCRA program) means the treatment of hazardous waste in a device which uses elevated temperature as the primary means to change the chemical, physical, or biological character or composition of the hazardous waste. Examples of thermal treatment processes are incineration, molten salt, pyrolysis, calcination, wet air oxidation, and microwave discharge. (See also "incinerator" and "open burning").

TOTALLY ENCLOSED TREATMENT FACILITY (in the RCRA program) means a facility for the treatment of hazardous waste which is directly connected to an industrial production process and which is constructed and operated in a manner which prevents the release of any hazardous waste or any constituent thereof into the environment during treatment. An example is a pipe in which waste acid is neutralized.

TOXIC POLLUTANT means any pollutant listed as toxic under Section 307(a)(1) of CWA.

TRANSPORTER (in the RCRA program) means a person engaged in the off-site transportation of hazardous waste by air, rail, highway, or water.

TREATMENT (in the RCRA program) means any method, technique, or process, including neutralization, designed to change the physical, chemical, or biological character or composition of any hazardous waste so as to neutralize such waste, or so as to recover energy or material resources from the waste, or so as to render such waste non-hazardous, or less hazardous; safer to transport, store, or dispose of; or amenable for recovery, amenable for storage, or reduced in volume.

UNDERGROUND INJECTION means well injection.

UNDERGROUND SOURCE OF DRINKING WATER or USDW means an aquifer or its portion which is not an exempted aquifer and:

A. Which supplies drinking water for human consumption; or

B. In which the ground water contains fewer than 10,000 mg/l total dissolved solids.

UPSET means an exceptional incident in which there is unintentional and temporary noncompliance with technology—based permit effluent limitations because of factors beyond the reasonable control of the permittee. An upset does not include noncompliance to the extent caused by operational error, improperly designed treatment facilities, inadequate treatment facilities, lack of preventive maintenance, or careless or improper operation. WATERS OF THE UNITED STATES means:

A. All waters which are currently used, were used in the past, or may be susceptible to use in interstate or foreign commerce, including all waters which are subject to the ebb and flow of the tide;

B. All interstate waters, including interstate wetlands;

C. All other waters such as intrastate lakes, rivers, streams *(including intermittent streams)*, mudflats, sandflats, wetlands, sloughs, prairie potholes, wet meadows, plays lakes, and natural ponds, the use, degradation, or destruction of which would or could affect interstate or foreign commerce including any such waters:

1. Which are or could be used by interstate or foreign travelers for recreational or other purposes,

2. From which fish or shellfish are or could be taken and sold in interstate or foreign commerce,

3. Which are used or could be used for industrial purposes by industries in interstate commerce;

D. All impoundments of waters otherwise defined as waters of the United States under this definition;

E. Tributaries of waters identified in paragraphs (A) - (D) above;

F. The territorial sea; and

G. Wetlands adjacent to waters (other than waters that are themselves wetlands) identified in paragraphs (A) - (F) of this definition.

Waste treatment systems, including treatment ponds or lagoons designed to meet requirement of CWA (other than cooling ponds as defined in 40 CFR Section 423.11(m) which also meet the criteria of this definition) are not waters of the United States. This exclusion applies only to manmade bodies of water which neither were originally created in waters of the United States (such as a disposal area in wetlands) nor resulted from the impoundments of waters of the United States.

WELL INJECTION or UNDERGROUND INJECTION means the subsurface emplacement of fluids through a bored, drilled, or driven well; or through a dug well, where the depth of the dug well is greater than the largest surface dimension.

WETLANDS means those areas that are inundated or saturated by surface or groundwater at a frequency and duration sufficient to support, and that under normal circumstances do support, a prevalence of vegetation typically adapted for life in saturated soil conditions. Wetlands generally include swamps, marshes, bogs, and similar areas.



Please print or type in the unshaded areas only

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Form Approved. OMB No. 2040-0086. Approval expires 5-31-92.

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II. TOLEOTANT CHANNELENIETICE				
INSTRUCTIONS: Complete A through J to determine w	hather you apod to a	womit any permit application	a formete fill EPA. If you ans	wer "yes" to any
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is excluded from permit requirements: see Section C of the	instructions. See also	, Section D of the instruction	s for definitions of beld-faced	terms.
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SPECIFIC QUESTIONS	VES NO	BPSCIFIC (	BUESTIONS	YES NO FORM
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A or B above? (FORM 2C)	22 22 24	waters of the U.S.? (FOR	M 2D)	25 26 27
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Clean Air Act and may affect or be located in an		Air Act and may affect	or be located in an attainment	
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III. NAME OF FACILITY				
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IV. FACILITY CONTACT			· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·
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EPA Form 3510-1 (8-90)

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VII. SIC CODES (4-digit, in order of priority)	
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VIII. OPERATOR INFORMATION	NAME B. is the name listed in
	Item VIII-A eleo the
8	TYES NO
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C. STATUS OF OPERATOR (Enter the appropriate letter to	ito the answer box, if "Other", specify.) D. PHONE (area code & no.)
F = FEDERAL M = PUBLIC (other than federal or state) S = STATE O = OTHER (specify) P = PRIVATE	(specify) C A (10 - 2) (2 - 2)
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F. CITY OR TOWN	G.STATE H. ZIP CODE IX. INDIAN LAND
	Is the facility located on Indian lands?
10 -	40 41 43 47 - 31 <sup>06</sup>
X. EXISTING ENVIRONMENTAL PERMITS	
A. NPDES (Discharges to Surface Water) D. PSD (	Air Emissions from Proposed Sources
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XI. MAP	
Attach to this application a topographic map of the area the outline of the facility, the location of each of its exit treatment, storage, or disposal facilities, and each well we water bodies in the map area. See instructions for precise in the map area.	extending to at least one mile beyond property bounderies. The map must show sting and proposed intake and discharge structures, each of its hazardous waste here it injects fluids underground. Include all springs, rivers and other surface requirements.
I certify under penelty of law that I have personally exa attachments and that, based on my inquiry of those p	mined and am familiar with the information submitted in this application and all ersons immediately responsible for obtaining the information contained in the
application, I believe that the information is true, accur false information, including the possibility of fine and im	Re and complete, I am every thet there are againticant penalties for submitting prisonment.
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COMMENTS FOR OFFICIAL USE ONLY	
EPA Form 3510-1 (8-90)	

EPA Form	3510-1	(8-90)
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Please print or type in the unshaded areas only [fill-in areas are spaced for elite type, i.e., 12 characters/inch]. Form Approved. OMB No. 2040-0086. Approval expires 5-31-92. U.S. ENVIRONMENTAL PROTECTION AGENCY I. EPA I.D. NUMBER FORM **GENERAL INFORMATION ^** Т TT Т P Δ  $\checkmark$ Consolideted Permits Program F (Read the GENERAL "General Instructions" before starting.) 1 2 GENERAL INSTRUCTIONS LABEL ITEM I. EPA I.D. NUMBER IIÌ FACILÌTY NAME ACILITY v MAILING ADDRESS PLÈASE PLACE LABEL IN THÌS SPACE

If a preprinted label has been provided, affix it in the designated space. Review the information carefully; if any of it is incorrect, cross through it and enter the correct data in the appropriate fill-in area below. Also, if any of the preprinted data is absent (the area to the left of the label space lists the information that should appear), please provide it in the proper fill-in area/s/ below. If the label is complete and correct, you need not complete Items 1, 111, V, and VI (except VI-B which must be completed regardless). Complete all items if no label has been provided. Refer to the instructions for detailed item descrip-tions and for the legal authorizations under which this data is collected.

D

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## II. POLLUTANT CHARACTERISTICS

VI. FACILITY

INSTRUCTIONS: Complete A through J to determine whether you need to submit any permit application forms to the EPA. If you answer "yes" to any questions, you must submit this form and the supplemental form listed in the paranthesis following the question. Mark "X" in the box in the third column if the supplemental form is attached. If you assure "no" to each question, you need not submit any of these forms. You may answer "no" if your activity is excluded from permit requirements; see Section C of the instructions. See also, Section D of the instructions for definitions of bold-faced terms.

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SPECIFIC QUESTIONS		-	ATTACHES		SPECIFIC QUESTIONS	YES	NO	ATTACHED
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(FORM 2A)					equatic animal production facility which results in a		1	
	10	1 17	18	1	discharge to waters of the U.S.? (FORM 28)	19	20	21
C. Is this a facility which currently results in discharges	I			D.	. Is this a proposed facility (other than those described		i	
to waters of the U.S. other than those described in			<u> </u>	1	in A or B above) which will result in a discharge to			
A or B abover (F-DHM 2C)	1 22			+	WHEN OF THE U.S. ( FORM 2D)	1 22	26	
E. Does or will this facility treat, store, or dispose of		1		۴.	. Do you or will you inject at this facility industrial or			1
hazardous wastes? (FORM 3)	l				municipal emuent below the lowermost stratum con-			
	_	1		1	underground sources of drinking water? (FORM 4)			
5. Do you or will you inject at this facility any produced	- 30.	1 20	+ <u> </u>	+		+ "	32	33
water or other fluids which are brought to the surface				н	. Do you or will you inject at this facility fluids for spe-		1	
in connection with conventional oil or natural gas pro-					cial processes such as mining of sulfur by the Frasch	1	1	
duction, inject fluids used for enhanced recovery of	1		ſ	1	process, solution mining of minerals, in situ combus-	1		
oil or natural gas, or inject fluids for storage of liquid					TION OF TOBELL TUBL, OF RECOVERY OF GEOTREFINEL Energy?	1		
hydrocarbons? (FORM 4)	34	35	36	1		37	34	30
I. Is this facility a proposed stationary source which is	}		_	٦.	is this facility a proposed stationary source which is	1		
one of the 28 industrial categories listed in the in-					NOT one of the 28 industrial categories listed in the			
structions and which will potentially and too tons	ł				matructions and which was potentially emit 250 tons			1
Clean Air Art and may affart or be located in an	1			1	Air Act and may effect or be located in an ettainment			
attainment area? (FORM 5)	<u> </u>	+		4	area? (FORM 5)		-	
IN NAME OF FACH ITY				1				
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IV FACILITY CONTACT								
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V FACILITY MAILING ADDRESS						the second		
V. FROILITT MATLING ADDRESS								
A. STREET OR P.O.	BOX		·····					
		I						
			<u> </u>	<u> </u>	<u> </u>			
B. CITY OR TOWN					C.STATE D. ZIP CODE			
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VI. PACIEITY LOCATION								
A. STREET, ROUTE NO. OR OTHER S	PEC	IFIC	IDENTIF	IER				
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19[14					45			
B. COUNTY NAME								
	11		1 1 1	T				
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C. CITY OR TOWN					D.STATE E. ZIP CODE F. COUNTY CODE			
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EFA Form 3510-1 (8-90)					CONT	NUE	ON I	REVERSE

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VII. SIC CODES (4-digit, in order of priority)	
A. FIRST	B SECOND
c (specify)	c (specify)
C. THIRD	D. FOURTH
c (specify)	e (specify)
VIII. OPERATOR INFORMATION	
A. NAME	B. Is the name listed in
8	
15 18	33 66
C. STATUS OF OPERATOR (Enter the appropriate letter into the ans	swer box; if "Other", specify.) D. PHONE (area code & no.)
F = FEDERAL M = PUBLIC (other than federal or state) S = STATE O = OTHER (opecify)	(specify)
	[13 <sup>1</sup> ] [16 - 10] [16 - 21] [22 - 20
E. STREET OR P.O. BOX	
F. CITY OF TOWN	G.STATE H. ZIP CODE HX. INDIAN LAND
	Is the facility located on Indian lands?
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-	49 41 42 47 - 51
X. EXISTING ENVIRONMENTAL PERMITS	
A. NPDES (Discharges to Surface Water) D. >SD (Atr Emissio	ons from Proposed Sources)
	<u> </u>
B. UIC (Underground Injection of Fluids) E. OTH	IER (specify)
	(specify)
16 17 18	<u>· · · · · · · · · · · · · · · · · · · </u>
C. RCRA (Hazardous Wastes) E. OTH	HER (specify)
	(specify)
	<u>4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 </u>
XI. MAP	
Attach to this application a topographic map of the area extending	to at least one mile beyond property bounderies. The map must show
the outline of the facility, the location of each of its existing and	proposed intake and discharge structures, each of its hazardous waste
treatment, storage, or disposal facilities, and each well where it in	njects fluids underground. Include all springs, rivers and other surface
water bodies in the map area. See instructions for precise requireme	ints.
XII. NATURE OF BUSINESS (provide a brief description)	
VIU CERTIFICATION (and instructional	
I certify under penalty of law that I have personally examined and	d am familier with the information submitted in this application and all
anachinents and dial, based on my inquiry or those persons im	Aneolatery responsible for obtaining the information contained in the
false information, including the possibility of fine and imprisonmen	nt.
A. NAME & OFFICIAL TITLE (Ding or print)	ATURE IC DATE SIGNED
COMMENTS FOR OFFICIAL USE ONLY	
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EPA Form 3510-1 (8-90)	

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APPENDIX E.2: FORM 2F

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Form 2F NPDES	€E	PA	United States Environmental Protection Agency Washington, DC 20460 Application for Permit To Discharge Stormwater Discharges Associated with Industrial Activity								
Paperwork Reduction Act Notice Public reporting burden for this application is estimated to average 28.6 hours per application, including time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding the burden estimate, any other aspect of this collection of information, or suggestions for improving this form, including suggestions which may increase or reduce this burden to: Chief, Information Policy Branch, PM-223, U.S. Environmental Protection Agency, 401 M St., SW, Washington, DC 20460, or Director, Office of Information and Regulatory Affairs, Office of Management and Budget, Washington, DC 20503.											
I. Outfi	Il Location										
For ear	ch outfall, list the la	ititude and	longitude	of its locat	ion to the	nearest 1	5 seconds	and the nam	e of the receiving wat	er	
A. U	(list)		8. Latitude	itude C. Longituc		D. Receiving W. (name)		Water			
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II Ime		I									
A. Ar op de co	A. Are you now required by any Federal, State, or local authority to meet any implementation schedule for the construction, upgrading or operation of wastewater treatment equipment or practices or any other environmental programs which may affect the discharges described in this application? This includes, but is not limited to, permit conditions, administrative or enforcement orders, enforcement compliance schedule letters, stipulations, court orders, and grant or loan conditions.										
1. ide	intification of Cond Agreements, Etc.	itions,	number	2. Affected Outfails		3. Brief Description of Project		Complia a, reg	Compliance Date		
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B. You may attach additional sheets describing any additional water pollution (or other environmental projects which may affect your discharges) you now have under way or which you plan. Indicate whether each program is now under way or planned, and indicate your actual or planned schedules for construction.											
III. Site Drainage Map											
Attach a site map showing topography (or indicating the outline of drainage areas served by the outfall(s) covered in the application is topographic map is unavailable) depicting the facility including: each of its intake and discharge structures; the drainage area of each storm water outfall; paved areas and buildings within the drainage area of each storm water outfall, each known past or present areas used in the drainage area of each storm water outfall, each known past or present areas used in the drainage area of each storm water outfall, each known past or present areas used in the drainage area of each storm water outfall, each known past or present areas used in the drainage area of each storm water outfall, each known past or present areas used in the drainage area of each storm water outfall, each known past or present areas used in the drainage area of each storm water outfall, each known past or present areas used in the drainage area of each storm water outfall, each known past or present areas used in the drainage area of each storm water outfall, each known past or present areas used in the drainage area of each storm water outfall, each known past or present areas used in the drainage area of each storm water outfall, each known past or present areas used in the drainage area of each storm water outfall, each known past or present areas used in the drainage area of each storm water outfall, each known past or present areas used in the drainage area of each storm water outfall, each drainage area areas where pesticides, herbicides, soil conditioners and fertilizers are applied; each of its haza to store water treatment, storage or disposal units (including each area not required to have a RCRA permit which is used for accumulating haza to store water under 40 CFR 262.34); each well where fluids from the facility are injected underground; springs, and other surface water bodies with receive storm water discharges from the facility.											

IV. Narrative Description of Pollutant Sources.         A.           A. For sect outling, provide a restinge of the set include unit) of modernout surfaces (including paved areas and building roots).         Outling for the surface of the local surface area surface by the outling.           Outling         Area of modernout Surface         Total Area Draw           Surface         Area of modernout Surface         Total Area Draw           Area of modernout Surface         Area of modernout Surface         Total Area Draw           B. Proyone a narrative description of sonfacant methods Draw         Area of modernout Surface of Draw           arguing to allow about to storm water, method of traumment the storm water nooting, and water and the modernout surface area applied.         Total Area Draw           C. For each outling, provide me location and a description of easting structural and nonstructural control measures to reduce and area applied.         Total Area Draw           Outling         Surface         Total Area Draw         Total Area Draw           C. For each outling, provide me location and a description of easting structural and nonstructural contr	ontinue	from the Front						
For each outfall provide an estimate or the area include analy of impervous surface. Including paved areas and outfall roots     or equivalent and a estimate of the roots surface.      Outfall Area of impervous Surface     Total Area Oranee     Outfall Counces in a surface of the inclusion of significant materials that are currently or in the past three years have been freated stored or pay     amployed, or the ast three years to momine contact by these materials with storm water unoff, materials loading and access a     the location manner and frequency in which pesticides. Net counces, and femiliars are applied     C. For each outfall, provide the location and a description of a suffing structural and nonstructural control measures to reduce pool     toom water unoff, materials calling and access a     Treatment and frequency in which pesticides. Net counces, and femiliars are applied     C. For each outfall, provide the location and a description of a suffing structural and nonstructural control measures to reduce pool     toom water unoff, materials calling and access a     Treatment and frequency in which pesticides. Net counces, and femiliars are applied     toom water unoff, and a description of the treatment the storm water reduces, and femiliars are applied     torm water unoff, and a description of the treatment the storm water reduces.     A call you description of the treatment the storm water reduces.     Treatment	IV. Nar	rative Description of Pollu	tant Sources					
Outsill         Area of imperious Surface         Total Area Dranet         Outfall         Area of imperious Surface         Total Area Ora           0         (croude undel)	A. Fo	r each outfail, provide an estimat	e of the area (include units) total surface area drained b	of imperviou	s surfaces (including paved area	s and building roofs) drained		
C For each outfail provide the location and a description of evision studius and nonstructival control measures to require an arrany description of significant means that are currently or in the past three years have been treated, stored or by a manner to allow exposure to storm water, method of the startment, each to each water and three years have been treated, stored or by a manner to allow exposure to storm water, method of the startment, each to each water and three years have been treated and access a the ocation, manner, and inducting and access a store ocation, manner, and inducting and access a store ocation, manner, and inducting and access a store ocation, manner, and inducting and a description of evision access and the ocation of the startment the store water report, and the store ocation and a description of the startment the store water report, and terminal with store of the store ocation and a description of evision access and the store ocation and a description of the startment the store water report, and terminal with store of the store ocation and a description of the startment the store water report, and the store of the store ocation and a description of the startment the store water reports and the store of the store ocation and a description of the startment the store water report. Then by discharge and the other access and the ultimate discharge of any solid or fully access and the store of the store ocation. The store description of the startment the store water report and the store of any solid or fully access and the store ocation. The store ocation and a description of the startment the store water report and access and the store ocation. The store access and the store ocation and a store of any solid or fully access and the store ocation. The store ocation and a store of any store ocation and access and the store occurs and the store	Dutfall	Area of Impervious Surface	Total Area Drained	Outfall	Area of Impervious Surface	Total Area Drained		
Provide a narrative description of significant meterials that are currently or in the past three years nave even ideated, stored or any amanned to explore the store of any even materials integreter is any order of the store water materials integreter is any order of the store of the st	umber	(provide units)	(provide units)	Number	(provide units)	(orovide units)		
C For each outfail, provide the location and a description of existing structural and nonstructural control measures to reduce point storm water runoff, and a description of the treatment the storm water receives, including the schedule and type of maniferance to and treatment measures and the ultimate discosal of any solid or fluid wates other than by discharge. Virtail  I treatment  I trea	B. Pri a r en the	ovide a narrative description of si manner to allow exposure to storr oployed, in the last three years, to location, manner, and frequency	gnificant materials that are in water; method of treatme o minimize contact by these in which pesticides, herbici	currently or in nt, storage, c materials wit des, soil con	the past three years have been for disposal: past and present mat h storm water runoff; materials lo ditioners, and fertilizers are applie	ireated, stored or disposed in wrials management practices ading and access areas, and d.		
A Cartify under penalty of law that the outfail(s) covered by this application have been tested or evaluated for the pre- nonstormwater discharges, and that all nonstormwater discharges from these outfail(s) are identified in either an accompanying i     or Form 2E application for the outfail.     Signature     Date Signed B Provide a description of the method used, the date of any testing, and the onsite drainage points that were directly observed during  //. Significant Leeks or Spills Provide existing information regarding the history of significant leaks or spills of toxic or hazardous pollutants at the facility in the or years, including the approximate date and location of the spill or leak, and the type and amount of material released.	C. For each outfall, provide the location and a description of existing structural and nonstructural control measures to reduce pollutants in storm water runoff; and a description of the treatment the storm water receives, including the schedule and type of maintenance for control and treatment measures and the ultimate disposal of any solid or fluid wastes other than by discharge.							
V. Nonstormwater Discharges         A i certify under penalty of law that the outfall(s) covered by this application have been tested or evaluated for the pres- nonstormwater discharges, and that all nonstormwater discharges from these outfall(s) are identified in either an accompanying in or Form 25 application for the outfall.         ame and Official Title (type or print)       Signature         B Provide a description of the method used, the date of any testing, and the onsite drainage points that were directly observed du/.ng         VI. Significant Leaks or Spills         Provide existing information regarding the history of significant leaks or spills of toxic or hazardous pollutants at the facility in the spill or leak, and the type and amount of material released.	umber		reatm	nent		Table 2F-1		
or Form 25 application for the outfall, ame and Official Title (type or print)       Date Signed         B       Provide a description of the method used, the date of any testing, and the onsite drainage points that were directly observed during         VI. Significant Leaks or Spills       Provide existing information regarding the history of significant leaks or spills of toxic or hazardous pollutants at the facility in the vers, including the approximate date and location of the spill or leak, and the type and amount of material released.	7. Nor A. I.	stormwater Discharges certify under penalty of law th instormwater discharges, and that	at the outfall(s) covered t t all nonstormwater dischar	by this appli ges from the	cation have been tested or eva se outfall(s) are identified in eithe	luated for the presence of r an accompanying Form 2C		
B Provide a description of the method used, the date of any testing, and the onsite drainage points that were directly observed during VI. Significant Leaks or Spills Provide existing information regarding the history of significant leaks or spills of toxic or hazardous pollutants at the facility in the or years, including the approximate date and location of the spill or leak, and the type and amount of material released.		Form 2E application for the outfair of Official Title (type or print)	II. Signature			Date Signed		
B Provide a description of the method used, the date of any testing, and the onsite drainage points that were directly observed during /1. Significant Leaks or Spills Provide existing information regarding the history of significant leaks or spills of toxic or hazardous pollutants at the facility in the original points including the approximate date and location of the spill or leak, and the type and amount of material released.	1111 UF 6111		Uignature					
VI. Significant Leaks or Spills Provide existing information regarding the history of significant leaks or spills of toxic or hazardous pollutants at the facility in the s years, including the approximate date and location of the spill or leak, and the type and amount of material released.	<u> </u>	aude a description of the method	used the date of any testin		site drainage opinits that were dire	i.		
Provide existing information regarding the history of significant leaks or spills of toxic or hazardous pollutants at the facility in the systems, including the approximate date and location of the spill or leak, and the type and amount of material released.	VI Sia	milicent Leeks of Collis						
	Provic years,	e existing information regarding including the approximate date a	the history of significant leand location of the spill or lea	aks or spills ik, and the ty	of toxic or hazardous pollutants a be and amount of material release	at the facility in the last three Id.		

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EPA ID Number (copy from item I of Form 1)

Con	tinued	from	Pag	e 2
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VII. Discharge Information							
A,B,C, & D: See instructions before proceeding.	Complete one set of tables for each out	fall. Annotate the outfall number in the space	e provided.				
Tables VI-A, VI-B, and VI-C are incl E: Potential discharges not covered by analysi	uded on separate sheets numbered VII-1 is - Is any pollutant listed in Table 2F-2	and VII-2.	Ce which you				
currently use or manufacture as an intermed	iate or final product or byproduct?						
Yes (list all such pollutants below)	······································	No (go to Sectio	(א ר				
VIII. Biological Toxicity Testing Data							
Do you have any knowledge or reason to believe on a receiving water in relation to your discharge	that any biological test for acute or chr within the last 3 years?	onic toxicity has been made on any of your	discharges or				
Yes (list all such pollutants below)		No (go to Section	1.00				
IX. Contract Analysis Information         Were any of the analyses reported in item V performed by a contract laboratory or consulting firm?         Yes (list the name, address, and telephone number of, and pollutants         No (go to Section X)         analyzed by, each such (aboratory or firm below)         A, Name       B. Address         C. Area Code & Phone No.       D. Pollutants Analyzed							
X. 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 property 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 & Official Title (type or print)	B. Area Code and Phor	B. Area Code and Phone No					
C. Signature		D. Date Signed					
EPA D Number .copy from tem of Form 1. Form Approved CMB No. 2040-0086

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Approval expires 5-31-32

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VII. Discharge Information (Continued from page 3 of Form 2F)						
Part A - You m	tions for additional	suits of at least one details.	analysis for every	pollutant in this ta	ble. Comp	nete one table for each outfail. See
	Meximur	m Values	Averagi	e Values	Number	
Pollutant	(includ	e units)	(includ	e units)	01	
and	Grab Sample		Grab Sample		Storm	
CAS Number	First 30	Flow-weighted	First 30	Flow-weighted	Events	
(if available)	Minutes	Composite	Minutes	Camposite	Sampled	Sources of Pollutants
Oil and Grease						
Biological Oxygen						
Demand (BOD5)				 	ļ	
Chemical Oxygen						
Demand (COD)					1	
Total Suspended						
Solids (TSS)						
Total Kjeldahl						
Nitrogen						
Nitrate plus						
Nitrite Nitrogen						
Total				1		
Phosphorus						
ρH	Minimum	Maximum	Minimum	Maximum		
Part 5 - List ea permit	ch pollutant that is for its process was	limited in an effluer stewater (if the facili	it guideline which they is operating under	ne facility is subject or an existing NPDE	to or any p S permit}	ollutant listed in the facility's NPCES Complete one table for each outfall
See th	E Instructions for ad Maximu	<u>aitional details and .</u> m Values		e Values	Number	
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Policiani	Crob Semple		Grab Samala		Since	
	Taken During	Flow weighted	Taken During	Elemente to the	Storm	
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Poli	utant	ŀ	Maximu /includ	m Value In unite)		Ave	H <b>ag</b> chươ	e Values le units)	Numbe	r		
2	nd	G	rab Sample			Grab Sample			Storm			
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Part 0	- Provid	e dat	a for the storm	event(s	) which resu	Ited in the maxin	num	values for the flow	weighted	compo	ute sample.	
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Date of	Durati	on	Total rain		Number of beginning	hours between of storm meas-	M	aximum floe rate	Total flow rain ev	from Int	Season	Form of Precipitation
Fvent	in minu		Guring storm	event e)	ured and e	nd of previous	(g	allons/minute or	(gallon		taken	(rainfall, scowmeit)
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9. Pr	ovide a di	scrip	tion of the met	hod of f	low measure	ment or estimate	).					
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# Instructions - Form 2F Application for Permit to Discharge Storm Water Associated with Industrial Activity

# Who Must File Form 2F

Form 2F must be completed by operators of facilities which discharge storm water associated with industrial activity or by operators of storm water discharges that EPA is evaluating for designation as a significant contributor of pollutants to waters of the United States, or as contributing to a violation of a water quality standard.

Operators of discharges which are composed entirely of storm water must complete Form 2F (EPA Form 3510-2F) in conjunction with Form 1 (EPA Form 3510-1).

Operators of discharges of storm water which are combined with process wastewater (process wastewater is water that comes into direct contact with or results from the production or use of any raw material, intermediate product, finished product, byproduct, waste product, or wastewater) must complete and submit Form 2F, Form 1, and Form 2C (EPA Form 3510-2C).

Operators of discharges of storm water which are combined with nonprocess wastewater (nonprocess wastewater includes noncontact cooling water and sanitary wastes which are not regulated by effluent guidelines or a new source performance standard, except discharges by educational, medical, or commercial chemical laboratories) must complete Form 1, Form 2F, and Form 2E (EPA Form 3510-2E).

Operators of new sources or new discharges of storm water associated with industrial activity which will be combined with other nonstormwater new sources or new discharges must submit Form 1, Form 2F, and Form 2D (EPA Form 3510-2D).

# Where to File Applications

The application forms should be sent to the EPA Regional Office which covers the State in which the facility is located. Form 2F must be used only when applying for permits in States where the NPDES permits program is administered by EPA. For facilities located in States which are approved to administer the NPDES permits program, the State environmental agency should be contacted for proper permit application forms and instructions.

Information on whether a particular program is administered by EPA or by a State agency can be obtained from your EPA Regional Office. Form 1, Table 1 of the "General Instructions" lists the addresses of EPA Regional Offices and the States within the jurisdiction of each Office.

# Completeness

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

### 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 Clean Water Act requires that all permit applications will be available to the public. This information will be made available to the public upon request.

Any information you submit to EPA which goes beyond that required by this form, Form 1, or Form 2C you may claim as confidential, but claims for information which are effluent data will 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 to you. Claims of confidentiality will be handled in accordance with EPA's business confidentiality regulations at 40 CFR Part 2.

# 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.

# EPA ID Number

Fill in your EPA Identification Number at the top of each odd-numbered page of Form 2F. You may copy this number directly from item 1 of Form 1.

EPA Form 3510-2F (11-90)

#### Item I

You may use the map you provided for item XI of Form 1 to determine the latitude and longitude of each of your outfalls and the name of the receiving water.

#### Item II-A

If you check "yes" to this question, complete all parts of the chart, or attach a copy of any previous submission you have made to EPA containing the same information.

#### Item II-8

You are not required to submit a description of future pollution control projects if you do not wish to or if none is planned.

#### Item III

Attach a site map showing topography (or indicating the outline of drainage areas served by the outfall(s) covered in the application if a topographic map is unavailable) depicting the facility including:

each of its drainage and discharge structures;

the drainage area of each storm water outfall;

paved areas and building within the drainage area of each storm water outfall, each known past or present areas used for outdoor storage or disposal of significant materials, each existing structural control measure to reduce pollutants in storm water runoff, materials loading and access areas, areas where pesticides, herbicides, soil conditioners and fertilizers are applied;

each of its hazardous waste treatment, storage or disposal facilities (including each area not required to have a RCRA permit which is used for accumulating hazardous waste for less than 90 days under 40 CFR 262.34);

each well where fluids from the facility are injected underground; and

springs, and other surface water bodies which receive storm water discharges from the facility;

#### Item IV-A

For each outfall, provide an estimate of the area drained by the outfall which is covered by impervious surfaces. For the purpose of this application, impervious surfaces are surfaces where storm water runs off at rates that are significantly higher than background rates (e.g., predevelopment levels) and include paved areas, building roofs, parking lots, and roadways. Include an estimate of the total area (including all impervious and pervious areas) drained by each outfall. The site map required under item III can be used to estimate the total area drained by each outfall.

#### Item IV-B

Provide a narrative description of significant materials that are currently or in the past three years have been treated, stored, or disposed in a manner to allow exposure to storm water; method of treatment, storage or disposal of these materials; past and present materials management practices employed, in the last three years, to minimize contact by these materials with storm water runoff; materials loading and access areas: and the location, manner, and frequency in which pesticides, herbicides, soil conditioners, and fertilizers are applied. Significant materials should be identified by chemical name, form (e.g., powder, liquid, etc.), and type of container or treatment unit. Indicate any materials treated, stored, or disposed of together. "Significant materials" includes, but is not limited to: raw materials; fuels; materials used in food processing or production; hazardous substances designated under Section 101(14) of CERCLA; any chemical the facility is required to report pursuant to Section 313 of Title III of SARA; fertilizers; pesticides; and waste products such as ashes, slag and sludge that have the potential to be released with storm water discharges.

### Item IV-C

For each outfall, structural controls include structures which enclose material handling or storage areas covering materials, berms, dikes, or diversion-ditches around manufacturing, production, storage or treatment units, retention ponds, etc. Nonstructural controls include practices such as spill prevention plans employee training, visual inspections, preventive maintenance, and housekeeping measures that are used to prevent or minimize the potential for releases of pollutants.

#### Item V

Provide a certification that all outfalls that should contain storm water discharges associated with industrial activity have been tested or evaluated for the presence of non-storm water discharges which are not covered by an NPDES permit. Tests for such non-storm water discharges may include smoke tests, fluorometric dye tests, analysis of accurate schematics, as well as other appropriate tests. Part B must include a description of the method used, the date of any testing, and the onsite drainage points that were directly observed during a test. All non-storm water discharges must be identified in a Form 2C or Form 2E which must accompany this application (see beginning of instructions under section titled "Who Must File Form 2F" for a description of when Form 2C and Form 2E must be submitted).

#### Item VI

Provide a description of existing information regarding the history of significant leaks or spills of toxic or hazardous pollutants at the facility in the last three years.

### Item VII-A, B, and C

These items require you to collect and report data on the pollutants discharged for each of your outfalls. Each part of this item addresses a different set of pollutants and must be completed in accordance with the specific instructions for that part. The following general instructions apply to the entire item.

#### **General Instructions**

Part A requires you to report at least one analysis for each pollutant listed. Parts B and C require you to report analytical data in two ways. For some pollutants addressed in Parts B and C, if you know or have reason to know that the pollutant is present in your discharge, you may be required to list the pollutant and test (sample and analyze) and report the levels of the pollutants in your discharge. For all other pollutants addressed in Parts B and C, you must list the pollutant if you know or have reason to know that the pollutant is present in the discharge, and either report quantitative data for the pollutant or briefly describe the reasons the pollutant is expected to be discharged. (See specific instructions on the form and below for Parts A through C.) Base your determination that a pollutant is present in or absent from your discharge on your knowledge of your raw materials, material management practices, maintenance chemicals, history of spills and releases, intermediate and final products and byproducts, and any previous analyses known to you of your effluent or similar effluent.

A. Sampling: The collection of the samples for the reported analyses should be supervised by a person experienced in performing sampling of industrial wastewater or storm water discharges. You may contact EPA or your State permitting authority for detailed guidance on sampling techniques and for answers to specific questions. Any specific requirements contained in the applicable analytical methods should be followed for sample containers, sample preservation, holding times, the collection of duplicate samples, etc. The time when you sample should be representative, to the extent feasible, of your treatment system operating properly with no system upsets. Samples should be collected from the center of the flow channel, where turbulence is at a maximum, at a site specified in your present permit, or at any site adequate for the collection of a representative sample.

For pH, temperature, cyanide, total phenols, residual chlorine, oil and grease, and fecal coliform, grab samples taken during the first 30 minutes (or as soon thereafter as practicable) of the discharge must be used (you are not required to analyze a flow-weighted composite for these parameters). For all other pollutants both a grab sample collected during the first 30 minutes (or as soon thereafter as practicable) of the discharge and a flow-weighted composite sample must be analyzed. However, a minimum of one grab sample may be taken for effluents from holding ponds or other impoundments with a retention period of greater than 24 hours.

All samples shall be collected from the discharge resulting from a storm event that is greater than 0.1 inches and at least 72 hours from the previously measurable (greater than 0.1 inch rainfall) storm event. Where feasible, the variance in the duration of the event and the total rainfall of the event should not exceed 50 percent from the average or median rainfall event in that area.

A grab sample shall be taken during the first thirty minutes of the discharge (or as soon thereafter as practicable), and a flow-weighted composite shall be taken for the entire event or for the first three hours of the event.

Grab and composite samples are defined as follows:

Grab sample: An individual sample of at least 100 milliliters collected during the first thirty minutes (or as soon thereafter as practicable) of the discharge. This sample is to be analyzed separately from the composite sample.

Flow-Weighted Composite sample: A flow-weighted composite sample may be taken with a continuous sampler that proportions the amount of sample collected with the flow rate or as a combination of a minimum of three sample aliquots taken in each hour of discharge for the entire event or for the first three hours of the event, with each aliquot being at least 100 milliliters and collected with a minimum period of fifteen minutes between aliquot collections. The composite must be flow proportional; either the time interval between each aliquot or the volume of each aliquot must be proportional to either the stream flow at the time of sampling or the total stream flow since the collection of the previous aliquot. Aliquots may be collected manually or automatically. Where GC/MS Volatile Organic Analysis (VOA) is required, aliquots must be combined in the laboratory immediately before analysis. Only one analysis for the composite sample is required.

Data from samples taken in the past may be used, provided that:

All data requirements are met;

Sampling was done no more than three years before submission; and

All data are representative of the present discharge.

Among the factors which would cause the data to be unrepresentative are significant changes in production level, changes in raw materials, processes, or final products, and changes in storm water treatment. When the Agency promulgates new analytical methods in 40 CFR Part 136, EPA will provide information as to when you should use the new methods to generate data on your discharges. Of course, the Director may request additional information, including current quantitative data, if they determine it to be necessary to assess your discharges. The Director may allow or establish appropriate site-specific sampling procedures or requirements, including sampling locations, the season in which the sampling takes place, the minimum duration between the previous measurable storm event and the storm event sampled, the minimum or maximum level of precipitation required for an appropriate storm event, the form of precipitation sampled (snow mett or rainfall), protocols for collecting samples under 40 CFR Part 136, and additional-time for submitting data on a case-by-case basis.

B. Reporting: All levels must be reported as concentration and as total mass. You may report some or all of the required data by attaching separate sheets of paper instead of filling out pages VII-1 and VII-2 if the separate sheets contain all the required information in a format which is consistent with pages VII-1 and VII-2 in spacing and in identification of pollutants and columns. Use the following abbreviations in the columns headed "Units."

	Concentration		Mass
ppm	parts per million	lbs	pounds
mg/1	milligrams per liter	ton	tons (English tons)
p <b>pb</b>	parts per billion	mg	milligrams
ug/1	micrograms per liter	g	grams
kg	kilograms	т	tonnes (metric tons)

All reporting of values for metals must be in terms of "total recoverable metal," unless:

(1) An applicable, promulgated effluent limitation or standard specifies the limitation for the metal in dissolved, valent, or total form; or

(2) All approved analytical methods for the metal inherently measure only its dissolved form (e.g. hexavalent chromium); or

(3) The permitting authority has determined that in establishing case-by-case limitations it is neces sary to express the limitations on the metal in dissolved, valent, or total form to carry out the provisions of the CWA. If you measure only one grab sample and one flow-weighted composite sample for a given outfall, complete only the "Maximum Values" columns and insert "1" into the "Number or Storm Events Sampled" column. The permitting authority may require you to conduct additions analyses to further characterize your discharges.

If you measure more than one value for a grab sample or a flow-weighted composite sample for a given outfall and those values are representative of your discharge, you must report them. You must describe your method of testing and data analysis. You also must determine the average of all values within the last year and report the concentration mass under the "Average Values" columns, and the total number of storm events sampled under the "Number of Storm Events Sampled" columns.

C. Analysis: You must use test methods promulgated in 40 CFR Part 138; however, if none has been promulgated for a particular pollutant, you may use any suitable method for measuring the level of the pollutant in your discharge provided that you submit a description of the method or a reference to a published method. Your description should include the sample holding time, preservation techniques, and the quality control measures which you used. If you have two or more substantially identical outfalls, you may request permission from your permitting authority to sample and analyze only one outfall and submit the results of the analysis for other substantially identical outfalls. If your request is granted by the permitting authority, on a separate sheet attached to the application form, identify which outfall you did test, and describe why the outfalls which you did not test are substantially identical to the outfall which you did test.

# Part VII-A

Part VII-A must be completed by all applicants for all outfails who must complete Form 2F.

Analyze a grab sample collected during the first thirty minutes (or as soon thereafter as practicable) of the discharge and flow-weighted composite samples for all pollutants in this Part, and report the results except use only grab samples for pH and oil and grease. See discussion in General Instructions to Item VII for definitions of grab sample collected during the first thirty minutes of discharge and flow-weighted composite sample. The "Average Values" column is not compulsory but should be filled out if data are available.

# Part VII-B

List all pollutants that are limited in an effluent guideline which the facility is subject to (see 40 CFR Subchapter N to determine which pollutants are limited in effluent guidelines) or any pollutant listed in the facility's NPDES permit for its process wastewater (if the facility is operating under an existing NPDES permit). Complete one table for each outfall. See discussion in General instructions to item VII for definitions of grab sample collected during the first thirty minutes (or as soon thereafter as practicable) of discharge and flowweighted composite sample. The "Average Values" column is not compulsory but should be filled out if data are available.

Analyze a grab sample collected during the first thirty minutes of the discharge and flow-weighted composite samples for all pollutants in this Part, and report the results, except as provided in the General Instructions.

# Part VII-C

Part VII-C must be completed by all applicants for all outfalls which discharge storm water associated with industrial activity, or that EPA is evaluating for designation as a significant contributor of pollutants to waters of the United States, or as contributing to a violation of a water quality standard. Use both a grab sample and a composite sample for all pollutants you analyze for in this part except use grab samples for residual chlorine and fecal coliform. The "Average Values" column is not compulsory but should be filled out if data are available. Part C requires you to address the pollutants in Table 2F-2, 2F-3, and 2F-4 for each outfall. Pollutants in each of these Tables are addressed differently.

Table 2F-2: For each outfall, list all pollutants in Table 2F-2 that you know or have reason to believe are discharged (except pollutants previously listed in Part VII-B). If a pollutant is limited in an effluent guideline limitation which the facility is subject to (e.g., use of TSS as an indicator to control the discharge of iron and aluminum), the pollutant should be listed in Part VII-B. If a pollutant in table 2F-2 is indirectly limited by an effluent guideline limitation through an indicator, you must analyze for it and report data in Part VII-C. For other pollutants listed in Table 2F-2 (those not limited directly or indirectly by an effluent limitation guideline), that you know or have reason to believe are discharges, you must either report quantitative data or briefly describe the reasons the pollutant is expected to be discharged.

Table 2F-3: For each outfail, list all pollutants in Table 2F-3 that you know or have reason to believe are discharged. For every pollutant in Table 2F-3 expected to be discharged in concentrations of 10 ppb or greater, you must submit quantitative data. For acrolein, acrylonitrile, 2,4 dinitrophenol, and 2-methyl-4.6 dinitrophenol, you must submit quantitative data if any of these four pollutants is expected to be discharged.

in concentrations of 100 ppb or greater. For every pollutant expected to be discharged in concentrations less than 10 ppb (or 100 ppb for the four pollutants listed above), then you must either submit quantitative data or briefly describe the reasons the pollutant is expected to be discharged.

Small Business Exemption - If you are a "small business," you are exempt from the reporting requirements for the organic tode pollutants listed in Table 2F-3. There are two ways in which you can qualify as a "small business". If your facility is a coal mine, and if your probable total annual production is less than 100,000 tons per year, you may submit past production data or estimated future production (such as a schedule of estimated total production under 30 CFR 795.14(c)) instead of conducting analyses for the organic toxic pollutants. If your facility is not a coal mine, and if your gross total annual sales for the most recent three years average less than \$100,000 per year (in second quarter 1980 dollars), you may submit sales data for those years instead of conducting analyses for the organic toxic pollutants. The production or sales data must be for the facility which is the source of the discharge. The data should not be limited 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, in situations involving intracorporate transfer of goods and services, the transfer price per unit should approximate market prices for those goods and services as closely as possible. Sales figures for years after 1980 should be indexed to the second quarter of 1980 by using the gross national product price deflator (second quarter of 1980 = 100). This index is available in National Income and Product Accounts of the United States (Department of Commerce, Bureau of Economic Analysis).

Table 2F-4: For each outfall, list any pollutant in Table 2F-4 that you know or believe to be present in the discharge and explain why you believe it to be present. No analysis is required, but if you have analytical data, you must report them. Note: Under 40 CFR 117.12(a)(2), certain discharges of hazardous substances (listed at 40 CFR 177.21 or 40 CFR 302.4) may be exempted from the requirements of section 311 of CWA, which establishes reporting requirements, civil penalties, and liability for cleanup costs for spills of oil and hazardous substances. A discharge of a particular substance may be exempted if the origin, source, and amount of the discharged substances are identified in the NPDES permit application or in the permit, if the permit contains a requirement for treatment of the discharge, and if the treatment is in place. To apply for an exclusion of the discharge of any hazardous substance from the requirements of section 311, attach additional sheets of paper to your form, setting forth the following information:

- 1. The substance and the amount of each substance which may be discharged.
- 2. The origin and source of the discharge of the substance.
- 3. The treatment which is to be provided for the discharge by:
  - a. An onsite treatment system separate from any treatment system treating your normal discharge;
  - b. 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
  - c. Any combination of the above.

See 40 CFR 117.12(a)(2) and (c), published on August 29, 1979, in 44 FR 50766, or contact your Regional Office (Table 1 on Form 1, Instructions), for further information on exclusions from section 311.

### Part VII-D

If sampling is conducted during more than one storm event, you only need to report the information requested in Part VII-D for the storm event(s) which resulted in any maximum pollutant concentration reported in Part VII-A, VII-B, or VII-C.

Provide flow measurements or estimates of the flow rate, and the total amount of discharge for the storm event(s) sampled, the method of flow measurement, or estimation. Provide the data and duration of the storm event(s) sampled, rainfall measurements, or estimates of the storm event which generated the sampled runoff and the duration between the storm event sampled and the end of the previous measurable (greater than 0.1 inch rainfall) storm event.

# Part VII-E

List any toxic pollutant listed in Tables 2F-2, 2F-3, or 2F-4 which you currently use or manufacture as an intermediate or final product or byproduct. In addition, if you know or have reason to believe that 2,3,7 B-te-trachlorodibenzo-p-dioxin (TCDD) is discharged or if you use or manufacture 2,4,5-trichlorophenoxy acetic

acid (2,4,5,-T); 2-(2,4,5-trichlorophenoxy) propanoic acid (Silvex, 2,4,5,-TP); 2-(2,4,5-trichlorophenoxy) ethyl. 2,2-dichloropropionate (Erbon); 0,0-dimethyl 0-(2,4,5-trichlorphenyl) phosphorothioate (Ronnel); 2,4,5trichlorophenol (TCP); or hexachlorophene (HCP); then list TCDD. The Director may waive or modify the requirement if you demonstrate that it would be unduly burdensome to identify each toxic pollutant and the Director has adequate information to issue your permit. You may not claim this information as confidential; however, you do not have to distinguish between use or production of the pollutants or list the amounts.

# Item VIII

Self explanatory. The permitting authority may ask you to provide additional details after your application is received.

# item X

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

Section 309(c)(4) of the Clean Water Act provides that "Any person who knowingly makes any false material statement, representation, or certification in any application, ... shall upon conviction, be punished by a fine of not more than \$10,000 or by imprisonment for not more than 2 years, or by both. If a conviction of such person is for a violation committed after a first conviction of such person under this paragraph, punishment shall be by a fine of not more than \$20,000 per day of violation, or by imprisonment of not more than 4 years. or by both." 40 CFR Part 122.22 requires the certification to be signed as follows:

(A) For a corporation: by a responsible corporate official. For purposes of this section, a responsible corporate official 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.

Note: EPA does not require specific assignments or delegation of authority to responsible corporate officers identified in 122.22(a)(1)(i). The Agency will presume that these responsible corporate officers have the requisite authority to sign permit applications unless the corporation has notified the Director to the contrary. Corporate procedures governing authority to sign permit applications may provide for assignment or delegation to applicable corporate position under 122.22(a)(1)(ii) rather than to specific individuals.

(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).

Table 2F-1 Codes for Treatment Units

# Physical Treatment Processes

1- <b>A</b>	Ammonia Stripping	1- <b>M</b>	Grit Removal
1-8	Clalysis	1-N	Microstraining
1-C	Olatomaceous Earth Filtration	1 <b>-O</b>	Mixing
1-0	Distillation	1-2	Moving Bed Filters
1-E	Electrodialysis	1- <b>Q</b>	Multimedia Filtration
1-F	Evaporation	1- <b>R</b>	Rapid Sand Filtration
1-G	Flocculation	1- <b>S</b>	Reverse Osmosis (Hyperfiltration)
1-H	Flotation	1-T	Screening
14	Foam Fractionation	1-U	Sedimentation (Setting)
1-J	Freezing	1-V	Slow Sand Filtration
1-K	Gas-Phase Separation	1-W	Solvent Extraction
1-L	Grinding (Comminutors)	1- <b>X</b>	Sorption
	Chemica	Treatment Proc	•\$\$#\$
2-A	Carbon Adsorption	2-G	Disinfection (Ozone)
2.8	Chemical Oxidation	2-H	Disinfection (Other)
2.C	Chemical Precipitation	2.1	Electrochemical Treatment
2.0	Coagulation	2-J	Ion Exchange
2·E	Dechlorination	2.K	Neutralization
2.F	Disinfection (Chlorine)	2·L	Reduction
	Biologica	I Treatment Proc	:01305
3-A	Activated Sludge	З-E	Pre-Aeration
J•₿	Aerated Lagoons	3-F	Spray Irrigation/Land Application
J-C	Anaerobic Treatment	3-G	Stabilization Ponds
3.0	Nitrification-Oenitrification	3-н	Trickling Filtration
	0	ther Processes	
4-A	Discharge to Surface Water	4-C	Reuse/Recycle of Treated Effluent
4-8	Ocean Discharge Through Outfall	4-0	Underground Injection
	Sludge Treatm	ent and Dispose	I Processes
5-A	Aerobic Digestion	5-M	Heat Drying
5-8	Anaerobic Digestion	5-N	Heat Treatment
5-C	Belt Filtration	5-0	Incineration
5-0	Centrifugation	5-P	Land Application
5-E	Chemical Conditioning	5-Q	Landfill
5-F	Chlorine Treatment	5-A	Pressure Filtration
5-G	Composting	5-S	Pyrolysis
5-H	Orying Beds	5-T	Sludge Lagoons
5-1	Elutriation	5-U	Vacuum Filtration
5-J	Flotation Thickening	5-V	Vibration
5-K	Freezing	5-W	Wet Oxidation
5-L	Gravity Thickening		

# Table 2F-2

# Conventional and Nonconventional Pollutants Required To Be Tested by Existing Discharger if Expected To Be Present

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Bromide Chlorine, Total Residual Color Fecal Coliform Fluoride Nitrate-Nitrite Nitrogen, Total Kjedahl Oil and Grease Phosphorus, Total Radioactivity Sulfate Sulfide Sulfite Surfactants Aluminum, Total Barium, Total Boron, Total Cobait, Total Iron, Total Magnesium, Total Molybdenum, Total Magnesium, Total Tin, Total Titanium, Total

# Table 2F-3

# Toxic pollutants required to be identified by applicant if expected to be present

#### **Toxic Pollutants and Total Phenoi**

Antimony, Total Arsenic, Total Beryllium, Total Cadmium, Total Chromium, Total

# Acrolein Acrytonitrile Benzene Bromoform Carbon Tetrachloride Chlorobenzene Chlorodibromomethane Chloroethane 2-Chloroethylvinyl Ether Chloroform

2-Chlorophenol 2,4-Dichlorophenol 2,4-Dimethylphenol 4,6-Dinitro-O-Cresol

Acenaphthene Acenaphthylene Anthracene Benzidine Benzo(a)anthracene Benzo(a)pyrene 3.4-Benzofluoranthene Benzo(ghi)perylene Benzo(k)fluoranthene Bis(2-chloroethoxy)methane Bis(2-chloroethoxy)methane Bis(2-chloroethoxy)methane Bis(2-chloroethyl)ether Bis(2-chloroisopropyl)ether Bis(2-ethylyhexyl)phthalate 4-Bromophenyl Phenyl Ether Butylbenzyl Phthalate Copper, Total Lead, Total Mercury, Total Nickel, Total Selenium, Total

#### **GC/MS Fraction Volatiles Compounds**

Dichlorobromomethane 1,1-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethylene 1,2-Dichloropropane 1,3-Dichloropropylene Ethylbenzene Methyl Bromide Methyl Chloride Methylene Chloride Thallium, Total Zinc, Total Cyanide, Total Phenols, Total

Silver, Total

1,1,2,2,-Tetrachloroethane Tetrachloroethylene Toluene 1,2-Trans-Dichloroethylene 1,1,1-Trichloroethane 1,1,2-Trichloroethane Trichloroethylene Vinyl Chloride

Acid Compounds

2,4-Dinitrophenol 2-Nitrophenol 4-Nitrophenol p-Chloro-M-Cresol

#### **Base/Neutral**

2-Chloronaphthalene 4-Chlorophenyl Phenyl Ether Chrysene Dibenzo(a.h)anthracene 1.2-Dichlorobenzene 1.3-Dichlorobenzene 1,4-Dichlorobenzene 3,3'-Dichlorobenzidine **Diethyl Phthalate Dimethyl Phthalate Di-N-Butyl Phthalate** 2.4-Dinitrotoluene 2.5-Dinitrotoluene **Di-N-Octylphthalate** 1,2-Diphenylhydrazine (as Azobenzene)

#### Pesticides

PCB-1254 Dieldrin Alpha-Endosulfan PC8-1221 Beta-Endosulfan PCB-1232 Endosulfan Sulfate PC8-1248 PCB-1260 Endrin PCB-1016 Endrin Aldehyde Heptachlor Toxaphene Heptachlor Epoxide PCB-1242

Pentachlorophenol Phenol 2,4,6-Trichlorophenol

Fluroranthene Fluorene Hexachlorobenzene Hexachlorobutadiene Hexachlorobutadiene Indeno(1,2,3-cd)pyrene Isophorone Napthalene N-Nitrobenzene N-Nitrosodimethylamine N-Nitrosodiphenylamine Phenanthrene Pyrene 1,2,4-Trichlorobenzene

Aldrin Alpha-BHC Beta-BHC Gamma-BHC Detta-BHC Chlordane 4,4'-DDT 4,4'-DDE 4,4'-DDD

# Table 2F-4 Hazardous substances required to be identified by applicant if expected to be present Toxic Pollutant

Hazardous Substances

#### Asbestos

Acetaldehyde Allyl alcohol Allyl chloride Aniyl acetate Aniline Benzonitrile Benzyl chloride Butyl acetate Butyl acetate Butylamine Carbaryl Carbofuran 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 Dinitrobenzene Diquat Disulfoton Diuron Epichlorohydrin Ethion Ethylene diamine Ethylene dibromide Formaldehyde Furfural Guthion Isoprene Isopropanolamine Kelthane

Kepone Malathion

Mercaptodimethur Methoxychlor

Methyl mercaptan Methyl methacrylate Methyl parathion Mevinphos Mexacarbate Monoethyl amine Nonomethyl amine Naled

Naothenic acid Nitrotoluene Parathion Phenolsulfonate Phosgene Propargite Propylene oxide **Pyrethrins** Quinoline Resorcinol Stronthium Strychnine Styrene 2.4,5-T (2,4,5-Trichlorophenoxyacetic acid) TDE (Tetrachlorodiphenyl ethane) 2.4.5-TP [2-(2.4.5-Trichlorophenoxy) propanoic acid] Trichlorofan Triethylamine

Trimethylamine Uranium Vanadium Vinyl acetate Xylene Xylenol Zirconium APPENDIX E.3: FORM 2C



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**Permits Division** 

# Application Form 2C -Wastewater Discharge Information

**Consolidated Permits Program** 

This form must be completed by all persons applying for an EPA permit to discharge wastewater (existing manufacturing, commercial, mining, and silvicultural operations).





# Application for Permit to Discharge Wastewater EXISTING MANUFACTURING, COMMERCIAL, MINING, AND SILVICULTURAL OPERATIONS

This form must be completed by all applicants who check "yes" to item II-C in Form 1.

#### Public Availability of Submitted Information.

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

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. This information will be made available to the public upon request.

Any information you submit to EPA which goes beyond that required by this form or Form 1 you may claim as confidential, but claims for information which is effluent data will 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 to you. Claims of confidentiality will be handled in accordance with EPA's business confidentiality regulations at 40 CFR Part 2.

#### 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.

#### **EPA ID Number**

Fill in your EPA Identification Number at the top of each page of Form 2c. You may copy this number directly from item 1 of Form 1.

#### Item I

You may use the map you provided for item XI of Form 1 to determine the latitude and longitude of each of your outfalls and the name of the receiving water.

#### item II-A

The line drawing should show generally the route taken by water in your facility from intake to discharge. Show all operations contributing wastewater, including process and production areas, sanitary flows, cooling water, and stormwater runoff. You may group similar operations into a single unit, labeled to correspond to the more detailed listing in item II-B. The water balance should show average flows. Show all significant losses of water to products, atmosphere, and discharge. You should use actual measurements whenever available; otherwise use your best estimate. An example of an acceptable line drawing appears in Figure 2c-1 to these instructions.

#### item II-B

List all sources of wastewater to each outfall. Operations may be described in general terms (for example, "dye-making reactor" or "distillation tower"). You may estimate the flow contributed by each source if no data are available. For stormwater discharges you may estimate the average flow, but you must indicate the rainfall event upon which the estimate is based and the method of estimation. For each treatment unit, indicate its size, flow rate, and retention time, and describe the ultimate disposal of any solid or liquid wastes not discharged. Treatment units should be listed in order and you should select the proper code from Table 2c-1 to fill in column 3-b for each treatment unit. Insert "XX" into column 3-b if no code corresponds to a treatment works, you must also identify all of your contributors in an attached listing.

#### item II-C

A discharge is intermittent unless it occurs without interruption during the operating hours of the facility, except for infrequent shutdowns for maintenance, process changes, or other similar activities. A discharge is seasonal if it occurs only during certain parts of the year. Fill in every applicable column in this item for each source of intermittent or seasonal discharges. Base your answers on actual data whenever available; otherwise, provide your best estimate. Report the highest daily value for flow rate and total volume in the "Maximum Daily" columns (columns 4-a-2 and 4-b-2). Report the average of all daily values measured during days when discharge occurred within the last year in the "Long Term Average" columns (columns 4-a-1 and 4-b-1).

#### item ili-A

All effluent guidelines promulgated by EPA appear in the Federal Register and are published annually in 40 CFR Subchapter N. A guideline applies to you if you have any operations contributing process wastewater in any subcategory covered by a BPT, BCT, or BAT guideline. If you are unsure whether you are covered by a promulgated effluent guideline, check with your EPA Regional office (Table 1 in the Form 1 instructions). You must check "yes" if an applicable effluent guideline has been promulgated, even if the guideline limitations are being contested in court. If you believe that a promulgated effluent guideline has been remanded for reconsideration by a court and does not apply to your operations, you may check "no."

#### Item III-B

An effluent guideline is expressed in terms of production *(or other measure of operation)* if the limitation is expressed as mass of pollutant per operational parameter; for example, "pounds of BOD per cubic foot of logs from which bark is removed," or "pounds of TSS per megawatt hour of electrical energy consumed by smelting furnace". An example of a guideline not expressed in terms of a measure of operation is one which limits the concentration of pollutants.

#### Item III-C

This item must be completed only if you checked "yes" to item III-B. The production information requested here is necessary to apply effluent guidelines to your facility and you cannot claim it as confidential. However, you do not have to indicate how the reported information was calculated. Report quantities in the units of measurement used in the applicable effluent guideline. The production figures provided must be based on actual daily production and not on design capacity or on predictions of future operations. To obtain alternate limits under 40 CFR 122.45(b)(2)(ii), you must define your maximum production capability and demonstrate to the Director that your actual production is substantially below maximum production capability and that there is a reasonable potential for an increase above actual production during the duration of the permit.

#### tem IV-A

If you check "yes" to this question, complete all parts of the chart, or attach a copy of any previous submission you have made to EPA containing same information.

#### Item IV-B

You are not required to submit a description of future pollution control projects if you do not wish to or if none is planned.

#### Item V-A, B, C, and D

The items require you to collect and report data on the pollutants discharged for each of your outfalls. Each part of this item addresses a different set of pollutants and must be completed in accordance with the specific instructions for that part. The following general instructions apply to the entire item.

#### **General Instructions**

Part A requires you to report at least one analysis for each pollutant listed. Parts B and C require you to report analytical data in two ways. For some pollutants, you may be required to mark 'X' in the 'Testing Required'' column (column 2-a, Part C), and test (semple and anelyze) and report the levels of the pollutants in your discharge whether or not you expect them to be present in your discharge. For all others, you must mark 'X' in either the "Believe Present" column or the "Believe Absent" column (columns 2-a or 2-b, Part B, and columns 2-b or 2-c, Part C) based on your best estimate, and test for those which you believe to be present. (See specific instructions on the form and below for Parts A through D.) Base your determination thet a pollutant is present in or absent from your discharge on your knowledge of your raw materials, maintenance chemicals, inter-

#### ITEM V - A, B, C, and D (continued)

mediate and final products and byproducts, and any previous analyses known to you of your effluent or similar effluent. (For example, if you manufacture pesticides, you should expect those pesticides to be present in contaminated stormwater runoff.) If you would expect a pollutant to be present solely as a result of its presence in your intake water, you must mark "Believe Present" but you are not required to analyze for that pollutant. Instead, mark an 'X' in the "Intake" column.

A. Reporting. All levels must be reported as concentration and as total mass. You may report some or all of the required data by attaching separate sheets of paper instead of filling out pages V-I to V-9 if the separate sheets contain all the required information in a format which is consistent with pages V-I to V-9 in spacing and in identification of pollutants and columns. (For example, the data system used in your GC/MS analysis may be able to print data in the proper format.) Use the following abbreviations in the columns headed "Units" (column 3, Part A, and column 4, Parts B and C).

Concentration	Mass
ppm parts per million	lbs pounds
mg/L milligrams per liter	ton tons (English tons)
ppb parts per billion	mg milligrams
ug/1micrograms per liter	ggrams
	kg kilograms

T..... tonnes (metric tons)

All reporting of values for metals must be in terms of "total recoverable metal," unless:

(1) An applicable, promulgated effluent limitation or standard specifies the limitation for the metal in dissolved, valent, or total form; or

(2) All approved analytical methods for the metal inherently measure only its dissolved form (e.g., hexavalent chromium); or

(3) The permitting authority has determined that in establishing case-by-case limitations it is necessary to express the limitations on the metal in dissolved, valent, or total form to carry out the provisions of the CWA.

If you measure only one daily value, complete only the "Maximum Daily Values" columns and insert '1' into the "Number of Analyses" column (columns 2-a and 2-d, Part A, and column 3-a, 3-d, Parts B and C). The permitting authority may require you to conduct additional analyses to further characterize your discharges. For composite samples, the daily value is the total mass or average concentration found in a composite sample taken over the operating hours of the facility during a 24-hour period; for grab samples, the daily value is the arithmetic or flow-weighted total mass or average concentration found in a series of at least four grab samples taken over the operating hours of the facility during a 24-hour period.

If you measure more than one daily value for a pollutant and those values are representative of your wastestream, you must report them. You must describe your method of testing and data analysis. You also must determine the average of all values within the last year and report the concentration and mass under the "Long Term Average Values" columns (column 2-c, Part A, and column 3-c, Parts B and C), and the total number of daily values under the "Number" of Analyses" columns (column 2-d, Part A, and columns 3-d, Parts B and C). Also, determine the average of all daily values taken during each calendar month, and report the highest average under the "Maximum 30-day Values" columns (column 2-c, Part A, and columns 2-c, Part A, and columns 3-d, Part A, and columns 3-d, Part A, and columns 4-d.

**B.** Sampling: The collection of the samples for the reported analyses should be supervised by a person experienced in performing sampling of industrial wastewater. You may contact your EPA or State permitting authority for detailed guidance on sampling techniques and for answers to specific questions. Any specific requirements contained in the applicable analytical methods should be followed for sample containers, sample preservation, holding times, the collection of duplicate samples, etc. The time when you sample should be representative of your normal operation, to the extent feasible, with all processes which contribute wastewater in normal operation, and with your treatment system operating properly with no system upsets. Samples should be collected from the center of the flow channel, where turbulence is at a maximum, at a site specified in your present permit, or at any site adequate for the collection of a representative sample.

For pH, temperature, cyanide, total phenols, residual chlorine, oil and grease, and fecal coliform, grab samples must be used. For all other pollutants 24-hour composite samples must be used. However, a minimum of one grab sample may be taken for effluents from holding ponds or other impoundments with a retention period of greater than 24 hours. For stormwater discharges a minimum of one to four grab samples may be taken, depending on the duration of the discharge. One grab must be taken in the first hour (or less) of discharge, with one additional grab (up to a minimum of four) taken in each succeeding hour of discharge for discharges lasting four or more hours. The Director may waive composite sampling for any outfall for which you demonstrate that use of an automatic sampler is infeasible and that a minimum of four grab samples will be representative of your discharge.

Grab and composite samples are defined as follows:

Grab sample: An individual sample of at least 100 milliliters collected at a randomly-selected time over a period not exceeding 15 minutes.

Composite sample: A combination of at least 8 sample aliquots of at least 100 milliliters, collected at periodic intervals during the operating hours of a facility over a 24 hour period. The composite must be flow proportional; either the time interval between each aliquot or the volume of each aliquot must be proportional to either the stream flow at the time of sampling or the total stream flow since the collection of the previous aliquot. Aliquots may be collected manually or automatically. For GC/MS Volatile Organic Analysis (VOA), aliquots must be combined in the laboratory immediately before analysis. Four (4) (rather than eight) aliquots or grab samples should be collected for VOA. These four samples should be collected during actual hours of discharge over a 24 hour period and need not be flow proportioned. Only one analysis is required.

The Agency is currently reviewing sampling requirements in light of recent research on testing methods. Upon completion of its review, the Agency plans to propose changes to the sampling requirements.

Data from samples taken in the past may be used, provided that:

All data requirements are met;

Sampling was done no more than three years before submission; and

All data are representative of the present discharge.

Among the factors which would cause the data to be unrepresentative are significant changes in production level, changes in raw materials, processes, or final products, and changes in wastewater treatment. When the Agency promulgates new analytical methods in 40 CFR Part 136, EPA will provide information as to when you should use the new methods to generate data on your discharges. Of course, the Director may request additional information, including current quantitative data, if she or he determines it to be necessary to assess your discharges.

C. Analysis: You must use test methods promulgated in 40 CFR Part 136; however, if none has been promulgated for a particular pollutant, you may use any suitable method for measuring the level of the pollutant in your discharge provided that you submit a description of the method or a reference to a published method. Your description should include the sample holding time, preservation techniques, and the quality control measures which you used. If you have two or more substantially identical outfalls, you may request permission from your permitting authority to sample and analyse only one outfall and submit the results of the analysis

#### ITEM V - A, B, C, and D (continued)

for other substantially identical outfalls. If your request is granted by the permitting authority, on a separate sheet attached to the application form, identify which outfall you did test, and describe why the outfalls which you did not test are substantially identical to the outfall which you did test.

D. Reporting of Intake Data: You are not required to report data under the "Intake" columns unless you wish to demonstate your eligibility for a "net" effluent limitation for one or more pollutants, that is, an effluent limitation adjusted by subtracting the average level of the pollutant(s) present in your intake water. NPDES regulations allow net limitations only in certain circumstances. To demonstrate your eligibility, under the "Intake" columns report the average of the results of analyses on your intake water (*if your water is treated before use, test the water after it is treated*), and discuss the requirements for a net limitation with your permitting authority.

#### Part V-A

Part V-A must be completed by all applicants for all outfalls, including outfalls containing only noncontact cooling water or storm runoff. However, at your request, the Director may waive the requirement to test for one or more of these pollutants, upon a determination that available information is adequate to support issuance of the permit with less stringent reporting requirements for these pollutants. You also may request a waiver for one or more of these pollutants for your category or subcategory from the Director, Office of Water Enforcement and Permits. See discussion in General Instructions to item V for definitions of the columns in Part A. The "Long Term Average Values" column (column 2-c) and "Maximum 30-day Values" column (column 2-b) are not compulsory but should be filled out if data are available.

Use composite samples for all pollutants in this Part, except use grab samples for pH and temperature. See discussion in General Instructions to Item V for definitions of the columns in Part A. The "Long Term Average Values" column (column 2-c) and "Maximum 30-Day Values" column (column 2-b) are not compulsory but should be filled out if data are available.

#### Part V-B

Part V-8 must be completed by all applicants for all outfalls, including outfalls containing only noncontact cooling water or storm runoff. You must report quantitative data if the pollutant(s) in guestion is limited in an effluent limitations guideline either directly, or indirectly but expressly through limitation on an indicator (e.g., use of TSS as an indicator to control the discharge of iron and aluminum). For other discharged pollutants you must provide quantitative data or explain their presence in your discharge. EPA will consider requests to the Director of the Office of Water Enforcement and Permits to eliminate the requirement to test for pollutants for an industrial category or subcategory. Your request must be supported by data representative of the industrial category or subcategory in question. The data must demonstrate that individual testing for each applicant is unnecessary. because the facilities in the category or subcategory discharge substantially identical levels of the pollutant or discharge the pollutant uniformly at sufficiently low levels. Use composite samples for all pollutants you analyze for in this part, except use grab samples for residual chlorine, oil and grease, and fecal coliform. The "Long Term Average Values" column (column 3-c) and "Maximum 30-day Values" column (column 3-b) are not compulsory but should be filled out if data are available.

#### Part V-C

Table 2c-2 lists the 34 "primary" industry categories in the lefthand column. For each outfall, if any of your processes which contribute wastewater falls into one of those categories, you must mark 'X' in "Testing Required" column (column 2-a) and test for (I) all of the toxic metals, cyanide, and total phenols, and (2) the organic toxic pollutants contained in Table 2c-2 as applicable to your category, unless you qualify as a small business (see below). The organic toxic pollutants are listed by GC/MS frac-

tions on pages V-4 to V-9 in Part V-C. For example, the Organic Chemicals Industry has an asterisk in all four fractions; therefore, applicants in this category must test for all organic toxic pollutants in Part V-C. The inclusion of total phenols in Part V-C is not intended to classify total phenols as a toxic pollutant. If you are applying for a permit for a privately owned treatment works, determine your testing requirements on the basis of the industry categories of your contributors. When you determine which industry category you are in to find your testing requirements, you are not determining your category for any other purpose and you are not giving up your right to challenge your inclusion in that category (for example, for deciding whether an effluent guideline is applicable) before your permit is issued. For all other cases (secondary industries, nonprocess wastewater outfalls, and nonrequired GC/MS fractions), you must mark "X" in either the "Believed Present" column (column 2-b) or the "Believed Absent" column (column 2-c) for each pollutant. For every pollutant you know or have reason to believe is present in your discharge in concentrations of 10 ppb or greater, you must report quantitative data. For acrolein, acrylonitrile, 2, 4 dinitrophenol, and 2-methyl-4, 6 dinitrophenol, where you expect these four pollutants to be discharged in concentrations of 100 ppb or greater, you must report quantitative data. For every pollutant expected to be discharged in concentrations less than the thresholds specified above, you must either submit quantitative data or briefly describe the reasons the pollutant is expected to be discharged. At your request the Director, Office of Water Enforcement and Permits, may waive the requirement to test for pollutants for an industrial category or subcategory. Your request must be supported by data representatives of the industrial category or subcategory in question. The data must demonstrate that individual testing for each applicant is unnecessary, because the facilities in question discharge substantially identical levels of the pollutant, or discharge the pollutant uniformly at sufficiently low levels. If you qualify as a small business (see below) you are exempt from testing for the organic toxic pollutants, listed on pages V-4 to V-9 in Part C. For pollutants in intake water, see discussion in General Instructions to this item. The "Long Term Average Values" column (column 3-c) and "Maximum 30-day Values" column (column 3-b) are not compulsory but should be filled out if data are available. You are required to mark "Testing Required" for dioxin if you use or manufacture one of the following compounds:

- (a) 2,4,5-trichlorophenoxy acetic acid, (2,4,5-T);
- (b) 2-(2,4,5-trichlorophenoxy) propanoic acid, (Silvex, 2,4,5-TP);
- (c) 2-(2,4,5-trichlorophenoxy) ethyl 2,2-dichloropropionate, (Erbon);
- (d) 0,0-dimethyl 0-(2,4,5-trichlorophenyl) phosphorothioate, (Ronnel);
- (e) 2,4,5,-trichlorophenol, (TCP); or
- (f) hexachlorophene, (HCP).

If you mark "Testing Required" or "Believed Present," you must perform a screening analysis for dioxins, using gas chromotography with an electron capture detector. A TCDD standard for quantitation is not required. Describe the results of this analysis in the space provided; for example, "no measurable baseline deflection at the retention time of TCDD" or "a measurable peak within the tolerances of the retention time of TCDD." The permitting authority may require you to perform a quantitative analysis if you report a positive result. The Effluent Guidelines Division of EPA has collected and analyzed samples from some plants for the pollutants listed in Part C in the course of its BAT guidelines development program. If your effluents are sampled and analyzed as part of this program in the last three years, you may use these data to answer Part C provided that the permitting authority approves, and provided that no process change or change in raw materials or operating practices has occurred since the samples were taken that would make the analyses unrepresentative of your current discharge.

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#### ITEM V - A, B, C, and D (continued)

Small Business Exemption: If you qualify as a "small business," you are exempt from the reporting requirements for the organic toxic pollutants, listed on pages V-4 to V-9 in Part C. There are two ways in which you can qualify as a "small business." If your facility is a coal mine, and if your probable total annual production is less than 100,000 tons per year, you may submit past production data or estimated future production (such as a schedule of estimated total production under 30 CFR § 795.14(c)) instead of conducting analyses for the organic toxic pollutants. If your facility is not a coal mine, and if your gross total annual sales for the most recent three years average less than \$100,000 per year (in second guerter 1980 dollars), you may submit sales data for those years instead of conducting analyses for the organic toxic pollutants. The production or sales data must be for the facility which is the source of the discharge. The data should not be limited to production or sales for the process or processs which contribute to the discharge, unless those are the only processes at your facility. For sales data, in situations involving intracorporate transfer of goods and services, the transfer price per unit should approximate market prices for those goods and services as closely as possible. Sales figures for years after 1980 should be indexed to the second guarter of 1980 by using the gross national product price deflator (second guarter of 1980 = 100). This index is available in National Income and Product Accounts of the United States (Department of Commerce, Bureau of Economic Analysis).

#### Part V-D

List any pollutants in Table 2c-3 that you believe to be present and explain why you believe them to be present. No analysis is required, but if you have analytical data, you must report it.

Note: Under 40 CFR 117.12(a)(2), certain discharges of hazardous substances (listed in Table 2c-4 of these instructions) may be exempted from the requirements of section 311 of CWA, which establishes reporting requirements, civil penalties and liability for cleanup costs for spills of oil and hazardous substances. A discharge of a particular substance may be exempted if the origin, source, and amount of the discharged substances are identified in the NDPES permit application or in the permit, if the permit contains a requirement for treatment of the discharge, and if the treatment is in place. To apply for an exclusion of the discharge of any hazardous substance from the requirements of section 311, attach additional sheets of paper to your form, setting forth the following information:

1. The substance and the amount of each substance which may be discharged.

2. The origin and source of the discharge of the substance.

3. The treatment which is to be provided for the discharge by:

a. An onsite treatment system separate from any treatment system treating your normal discharge;

b. 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

c. Any combination of the above.

See 40 CFR §117.12(a)(2) and (c), published on August 29, 1979, in 44 FR 50766, or contact your Regional Office (*Table 1 on Form 1, Instructions)*, for further information on exclusions from section 311.

#### Item VI

This requirement applies to current use or manufacture of a toxic pollutant as an intermediate or final product or byproduct. The Director may waive or modify the requirement if you demonstrate that it would be unduly burdensome to identify each toxic pollutant and the Director has adequate information to issue your permit. You may not claim this information as confidential; however, you do not have to distinguish between use or production of the pollutants or list the amounts.

#### item VII

Self explanatory. The permitting authority may ask you to provide additional details after your application is received.

#### Item IX

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 not more than \$10,000 or by imprisonment for not more than six months, or by both."

40 CFR Part 122.22 requires the certification to be signed as follows:

(A) For a corporation: by a responsible corporate official. For purposes of this section, a responsible corporate official 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.

Note: EPA does not require specific assignments or delegation of authority to responsible corporate officers identified in §122.22(a)(1)(i). The Agency will presume that these responsible corporate officers have the requisite authority to sign permit applications unless the corporation has notified the director to the contrary. Corporate procedures governing authority to sign permit applications may provide for assignment or delegation to applicable corporate position under §122.22(a)(1)(ii) rather than to specific individuals.

(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). Applications for Group II stormwater dischargers may be signed by a duly authorized representative (as defined in 40 CFR 122.22(b)) of the individuals identified above.

# CODES FOR THEATMENT ANTS

# PHYSICAL TREATMENT PROCESSES

1-A	Ammonia Stripping	1—M	Grit Removal
1-8	Dialysis	1—N	Microstraining
1-C.	Diatomaceous Earth Filtration	1-0	Mixing
1-D	Distillation	1—P	Moving Bed Filters
1—Е	Electrodialysis	1-Q	Multimedia Filtration
1-F	Evaporation	1–R	Rapid Sand Filtration
1G	Flocculation	1–S	.Reverse Osmosis (Hyperfiltration)
1—H	Flotation	1—T	.Screening
1-1	.Foam Fractionation	1–U	Sedimentation (Settling)
1-J	Freezing	1–V	Slow Sand Filtration
1-к	.Gas-Phase Separation	1-W	Solvent Extraction
1-L	.Grinding (Comminutors)	1–X	Sorption

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#### CHEMICAL TREATMENT PROCESSES

2-A	Carbon Adsorption Chemical Oxidation Chemical Precipitation Coagulation Dechlorination	2-G	Disinfection (Ozone) Disinfection (Other) Electrochemical Treatment on Exchange leutralization beduction
<b>Z-F.</b>	.Disinfection (Chlorine)	2-L	Reduction

# BIOLOGICAL TREATMENT PROCESSES

3-A Activated Sludge	3–E
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	4—C

#### SLUDGE TREATMENT AND DISPOSAL PROCESSES

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

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	GC/MS FRACTION'			
	Volatile	Acid	Base/Neutral	Pesticide
Adhesives and sealants	×	×	x	_
Aluminum forming.	×	X	X	_
Auto and other laundries.	×	x	x	×
Battery manufacturing	×	-	x	_
Coal mining	×	×	×	x
Coil coating	×	x	x	-
Copper forming	x	x	x	_
Electric and electronic compounds	x	x	x	×
	x	×	x	_
Explosives manufacturing	-	×	×	_
Foundries	x	×	x	_
Sum and wood chamicals	X	x	X	~
Inormanic chemicals manufacturing	X	x	X	_
ron and steel manufacturing	x	x	x	-
eather tanning and finishing	x	x	x	- -
Mechanical products manufacturing	x	x	X	^
	Ŷ	x	x	Ţ
Are minima	Ŷ	Ŷ	Ŷ	Û
Ore minning	Ŷ	Ŷ	Ŷ	Û
Digant chemicals manufacturing	Ŷ	Ŷ	Ŷ	÷.
ram, and ink formulation	Ŷ	Ŷ	Ŷ	÷.
resticiues,	- C	Ŷ	Ŷ	÷
	- Û	Ŷ	Ŷ	^
narmaceutical preparations.	÷	<b>û</b>	Ŷ	-
Photographic equipment and supplies	÷.	Û,	Ŷ	÷
Plastic and synthetic materials menufacturing.	÷	^	^	~
	÷	-	-	-
	S.	~	÷.	X
	Š	×	Ň	×
ruip and paperboard mills	×	<u> </u>	÷.	*
	Š.	×	~	-
Soap and detergent manufacturing	X	X	×	-
Steam electric power plants	x	X	×	-
Textile mills	X	×	X	X
Timber products processing	X	x	X	x

\*See note at conclusion of 40 CFR Part 122, Appendix D (1983) for explanation of effect of suspensions on testing requirements for primary industry categories.

'The pollutants in each fraction are listed in Item V-C.

X = Testing required.

- = Testing not required.

# TOXIC POLLUTANTS AND HAZARDOUS SUBSTANCES REQUIRED TO

#### TOXIC POLLUTANT

#### Asbestos

# HAZARDOUS SUBSTANCES

Acetaldehyde Allyl alcohol Allyl chloride Amyl acetate Aniline Benzonitrile Benzyl chloride **Butyl** acetate Butylamine Captan Carbaryi Carbofuran Carbon disulfide Chlorpyrifos Coumaphos Cresol Crotonaldehyde Cyclohexane 2,4-D (2,4-Dichlorophenoxyacetic acid) Diazinon Dicamba Dichlobenil Dichlone 2,2-Dichloropropionic acid

#### HAZARDOUS SUBSTANCES

Dichlorvos Diethyl amine **Dimethyl amine** Dintrobenzene Diguat Disulfoton Diuron Epichlorohydrin Ethion Ethylene diamine Ethylene dibromide Formaldehyde Furfura) Guthion Isoprene Isopropanolamine Kelthane Kepone Malathion Mercaptodimethur Methoxychlor Methyl mercepten Methyl methacrylate Methyl parathion Mevinphos Mexacarbate Monoethyl amine Monomethyl amine

#### HAZARDOUS SUBSTANCES

Naled Napthenic acid Nitrotoldene Parathion Phenoisulfonate Phosgene Propargite Propylene oxide **Pyrethrins** Quinoline Resorcinol Strontium Strychnine Styrene 2,4,5-T (2,4,5-Trichlorophenoxyacetic acid) TDE (Tetrachlorodiphenyl ethane) 2,4,5-TP [2-(2,4,5-Trichlorophenoxy) propanoic acid] Trichlorofon Triethanolamine Triethylamine Trimethylamine Uranium Vanadium Vinyl acetate Xylene Xylenoi Zirconium

1.36T4NCES

1. Acetaldehyde 2. Acetic acid 3. Acetic anhydride 4. Acetone cvanohydrin 5. Acetvl bromide 6. Acetyl chloride 7. Acrolein 8. Acrylonitrile 9. Adipic acid 10. Aldrin 11. Aliyi 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 carbemate 22. Ammonium carbonate 23. Ammonium chloride 24. Ammonium chromate 25. Ammonium citrate 26. Ammonium fluoroborate 27. Ammonium fluoride 28, Ammonium hydroxide 29. Ammonium oxalate 30. Ammonium silicofluoride 31. Ammonium sulfamate 32. Ammonium sulfide 33. Ammonium sulfite 34, Ammonium tartrate 35. Ammonium thiocyanate 36. Ammonium thiosulfate 37. Amyl acetate 38. Aniline 39. Antimony pentachloride 40. Antimony potassium tartrate 41. Antimony tribromide 42. Antimony trichloride 43. Antimony trifluoride 44. Antimony trioxide 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 57. Beryllium fluoride 58. Beryllium nitrate 59. Butylacetate 60. n-Butylphthalate 61. Butylamine 62. Butyric acid 63. Cedmium acetate 64. Cadmium bromide 65. Cedmium chloride 66. Calcium arsenate

- 67. Calcium arsenite
- 68. Calcium carbide
- 69. Calcium chromate

70. Calcium cyanide 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-Dichlorophenoxyscatic 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. Ethylbenzene
- 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, Formaldehvde 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 suifide 156. Isoprene 157. Isopropanolamina dodecylbenzenesulfonate 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 thiocyanate 171. Lindene 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 merceptan 184. Methyl methacrylate 185. Methyl perathion 186, Mevinphos 187, Mexacarbata 188. Monoethylamine 189, Monomethylamine 190. Naled 191. Nachthalene 192. Naphthenic acid 193. Nickel ammonium sulfate 194. Nickel chloride 195. Nickel hydroxide 196. Nickel nitrate 197. Nickel sulfate 198. Nitric acid 199. Nitrobenzene 200. Nitrogen dioxide 201. Nitrophenol 202. Nitrotoluene 203. Paraformaldehyde

#### HAZARDOUS SUBSTANCES (continued)

- 204, Parathion 205. Pentachiorophenol 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 acid 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. Sodum phosphate (dibasic)
- 246. Sodium phosphate (tribasic)

- 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) 258. 2.4.5-TP acid esters (2.4.5-
- Trichlorophenoxy propanoic acid esters)
- 259. TDE (Tetrachlorodiphenyl ethane)
- 260. Tetraethyl lead
- 261. Tetraethyl pyrophosphate 262. Thallium sulfate
- 263. Toluene
- 264. Toxaphene 265. Trichlorofon

- 266, Trichloroethylene 267. Trichlorophenol
- 268. Triethanolamine
- dodecy/benzenesulfonate
- 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
- 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 phenoisulfonate
- 291. Zinc phosphide
- 292. Zinc silicofluoride
- 293. Zinc sulfate
- 294. Zirconium nitrate
- 295. Zirconium potassium flouride 296. Zirconium sulfate
- 297. Zirconium tetrachloride

- 247. Sodium selenite 248. Strontium chromate 249. Strychnine
  - 250. Styrene
  - 251. Sulfuric acid



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

Form Approved OMB No. 2040-0086 Approval expires 5-31-92

lease prin	nt or typ	pe in the unsh	naded areas	soniy.					Approval e	xpires 5-31-92	
FORM 2C	Ş	EPA		EXISTING	MANUF	APPLICA ACTURIN	TION FOR	PERMIT TO DISCH	ARGE WASTEWATER		IONS
NPDES		OCATION			_		Cons	plidated Permits Pl	rogram		
For eac	D OUTFA	Il list the lati	tude and k	ongitude of i	ts location	to the near	est 15 secor	ds and the name of	the receiving water	. <u> </u>	
A. OUT	FALL	. 1	LATITUD	E	C.	LONGITUD				E D (name)	
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	109 2N	ACES OF PO			ATMENT	TECHNOL	OGIES				
A. Attac and ti flows pictor E. For e coolir on ad	h a lin restmer betwee risi daec ech ou vg wata ditional	e drawing shint units labele an intakes, o ription of the tfall, provide r, and storm. I sheets if neo	owing the ed to sorra peratiens, interations, interations, interations, interactions,	water flow repond to the treatment used finance of den of: (1) off; (2) The	through t e more de nits, and l'any source All operat average fi	the facility, mailed descr outfalls. If see of water tions contributions contributions	Indicate so iptions in I a water bai and any col buting wast uted by eac	arces of intake wate tem B. Construct a t ence cennot be det lection or treatminist awater to the efficient h operation; and (3)	r, operations contribut water balance on the li emined ( <i>e.g., for cert</i> s measures. at, including process w The treatment receive	ing westewater to ne drawing by sho in mining activitie restewater, senitary id by the westewar	the effluent, wing average s), provide a westawater, ter. Continue
1. OUT-		2. C	PERATIC	N(S) CONT	RIBUTIN	S FLOW		1	3. TREATM	ENT	
(Met)		8. 07	ERATION	(liet)		b. AVERA (Include	GE FLOW tunits)	•	DESCRIPTION	D. LIST (	BLE 2C-1
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INTAKE AND EFFLUENT CHA	EPA I.D. NUMBER (copy from Hel	m 1 0) Form 1)	
The second	RACTERISTICS		
B, & C: See instructions befor	re proceeding - Complete one set of tables	for each outfall - Annotate the outfall ne	mber in the space provided.
NOTE: THOMS V-4,	w of the pollutants listed in Table 2c-3 of	the instructions, which you know or have	e reason to believe is discharged or may
discharged from any outfall, possession.	For every pollutant you list, briefly descri	ibe the reasons you believe it to be prese	nt and report any analytical data in yo
1. POLLUTANT	Z. SOURCE	1. POLLUTANT	2. SOURCE
OTENTIAL DISCHARGES N	OT COVERED BY ANALYSIS		
iny pollutant listed in hem-Y-C ( product?	s substance or a component of a substance	which you currently use or menufacture	as an intermediate or final product or
	<b>V #5. flat ell such</b> pollutente below)	no (en la li	em VI-B)
ليا 	The first of all the pollution is delow)		

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# ONTINUED FROM THE FRONT

VII. BIOLOGICAL TOXICITY TESTING DATA

Do you have any knowledge or reason to believe that any biological test for acute or chronic toxicity has been made on any of your discharges or on a receiving water in relation to your discharge within the last 3 years?

**YES** (identify the test(s) and describe their purposes below)

NO.(so to Section VIII)

YES (Not the name, add analyzed by, each	iress, and telephone number of, and pollutants such laboratory or firm below)	NO (po to Sec	tion IX)
A. NAME	S. ADDRESS	C. TELEPHONE (gree code & no.)	D. POLLUTANTE A
CATION			
der penelty of law that this document a qualified personnel property gather an na directly responsible for gathering th	nd all attachments were prepared under my direc d evaluate the information submitted. Based on m a information, the information submitted is, to the b	tion or supervision in ec y inquiry of the person er est of my knowledge and	cordence with a system of persons who menage the bolist, true, accurate, and

A. NAME & OFFICIAL TITLE (type or print)	B. PHONE NO. (area code & no.)
C SIGNATURE	D. DATE SIGNED

PLEASE PRINT OR TYPE IN THE UNSHADED AREAS ONLY. You may report some or all of this information on separate sheets (use the same format) instead of completing these pages. SEE INSTRUCTIONS.

EPA I.D. NUMBER (CUPY from liem 1 of Form 1)

SEE INSTRUCTION	IS.										-			1	Ī
V. INTAKE AND I	EFFLUENT CHA	RACTERISTIC	CS (continued	d from page	3 of Form 2	(C)							ō	-	-
PART A - You n	nust provide the	a results of at	least one a	nalysis for	every pollu	itant in this	table. Com	plete one ta	ble for eac	h outfall. Si	e instructi	ions for additio	nal details.	1	
				2. EFI	FLUENT					S. UNIT	rs Anti	4. IN	TAKE (optiona	=	
1. POLLUTANT	A. MAXIMUM	DAILY VALA	IXYM CI-	APALL AL	A VALUE	ELONG TR	Wallackey . V.				1210	AVERAGI	E VALUE	р и ст 1	:
	(I) CONCENTRATION	1= Je	0.5	LATION 1	and the	(I) CONCENTRATI	AM [1] MO	IN ANAL	Vses "T	RATION	b. MASS	CONLENTRATION	[2] MASS		7
a. Biochemical Oxygen Demand (BOD)															
b. Chemical Oxygan Demand (COD)						- - - -									······································
e. Total Organic Carbon (TOC)															
d. Total Suspended Solids (755)															
e. Ammonia (as N)															
f. Flow	VALUE		VALUE			VALUE						VALUE		ł	
g. Temperature (winter)	VALUE		VALUE			VALUE				ပို		VALUE		<b>.</b>	
h. Temperatura (summer)	VALUE		VALUE			VALUE				ů		VALUE		<b>.</b> -	
Hd .	MUMIMUM	MUMIXVM	MINIM	X V	WOWD	$\left \right/ \right\rangle$	$\left \right\rangle$		<i>w</i>	TANDARD	UNITS	$\left  \right  $		11	Í.
PART B - Mark <sup>**</sup> which i columr	X'' in column 2-1 is limited either di 12a, you must pro	s for each pollu reathy, or indire twide quantited	Mant you kno othy but expr itve data or ar	w or heve n heely, in an e n suplanatio	eeon to beli Muent limitu m of their pri	eve is presen Itions guidelli Mence in you	it. Mart. "X." ir ne, you must p ir diacharge. (	n column 2-b kovide the ret Complete one	for each pol builts of at lea table for ea	llutant you be ist one analysi ch outfall. Sei	lieve to be a is for that po a the instruc	beent. If you mar llutant. For other   ctions for additior	k column 2a for pollutants for wh nai details and re	Bny protect ICh yourne	
1. POLLUT- 2.1	·X. X4VM				3. EFFLL	JENT				4.1	JNITS	5.1	NTAKE (optic	naly	
ANT AND CAS NO.	VEGUIEVER B. M.	IXIMUM DAIL	V VALUE	b. MAXIN	Y	VALUE CI	LONG TERM	AVES VAL	UE ANO. O	E CONCEN		AVER	ONG TEAM	<u>:</u> 	3
(if available) a	THT BENT CONCE	(I) INTRATION	(ż) MA55	CONCENTRA	TION (1)	MA88 C.0	(I) NCENTRATION	13 M A 52		TRATION		CONCENTRATI	ON [1] NO		
e. Bromide (24959-67-9)															
b. Chiorine, Total Residuel															
c. Color														• 	
d. Fecal Coliform											   			<del>.</del>	
e. Fluoride (16984-48-8)									   			-			
f, Nitrete- Nitrite (ac N)															

EPA Form 3510-2C (8-90)

PAGE V-1

CONTINUE ON REV.

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1. POLLUT-	2. MARK	×			3. EFF	FLUENT				4. UN	ITS	5. INT	AKE (optional)	
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J. Radioactivity								Ţ.						
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a linea. Tendi - (7430-49-6)		   		· · · · · · · · · · · · · · · · · · ·										
t. Magnasium, Total (7439-95-4)														-
u. Molybdenum, Totel (7439-98-7)														
v. Manganesa, Total (7439-96-5)					 									
w. Tin, Total (7440-31-5)														
x. Titanium, Total (7440-32-6)														
EPA Form	3510-2C	(8-90)					PAGE V-2					Ō	ONTINUE ON P.	5

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

ED FROM PAGE 3 OF FORM 2-C	If you are a primary industry and th
CONTINU	PART (

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to dia	ntrations of 100 ppb: charged. Note that th	or greater. Other here are 7 pages	wise, for pollutar to this part; plea	its for which you as review each (	merk column 20 cerefully. Compl	, you must either He one table fail	aubriit at leadt o 7 pages/, fer the		pr briefly dee ee instructik	cribe the measure the for addition	ons the pollur anal details a	tant is expectent	d to nts.
1. POLLUTANT	2. MARK 'X'			3.6	EFFLUENT			2	4. U1	81.IS	ENI 'S	LAKE (option	sel)
NUMBER	A TEST D. SE- C. SE-	<b>B. MAXIMUM D</b>	AILY VALUE	b. HAXING H	BOTINA STOR	The silves	AVES-VALUE		t CONCEN-		AVERAG	E VALUE	6 NO. OF
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1M Antimony, Lotal (7440-36-0)													
2M. Arennic, Total (7440-38.2)													
3M. Beryllium, Fotal, 7440-41-7)													
4M. Cadmium, Fotal (7440-43-8)													
5M. Chromium, Total (7440-47-3)													
OM. Camer, Total (7440-50-3)													
The Level, Total (7438-92-11													
8M. Mercury, Total (7439.97.6)													
9M. Nickel, Total (7440-02 1)													
10M. Selenium, Fotel (7782- <b>49-2</b> )													
1 1M. Silver, Total (7440-27-4)													
12M Thallium, Fotal (7440 28-0)													
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14M. Cyanide, Lotal (57.12-5)													
15M Phenols, Total													
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2.1.7.8.1.erra .hhmodilerizo.P. Dirvin (1.26 <b>4.01.6</b> )		DESCRIBE RESI	JLTS										
EPA Form 3510	-2C (8-90)				PAG	E V-3					CONTINUE O	ON REVERSE	

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1. POLLUTANT	2. MAR	.X. HI			Э. Е	FFLUENT				4. UNI	TS	5. INT	AKE (option	
NUMBER	LTEAT D. 0		B. MAXIMUM I	DAILY VALUE	b. MAXIMUM 31	BCY VALUE	C.LONG TERM	PARS VALUE	I NO. OF	CONCEN-		A VERAGI	E VALUE	
(if available)		it dent	CONCENTRATION	(2) MA55	CONCENTRATION	12) mass	CONCENTRATION	(2) wass	ANAL.	TRATION	SSA M U	[1] CUNCAN-	(2) MAN	- ? ( -
GCAMS FRACTION	- VOLAT	ILE COM	POUNDS (contin	nued)										
22V. Methylene Chloride (75-09-2)														
23V. 1,1,2,2-Tetra- chloroethane (78-34-5)											1			
24V. Tetrachioro- ethylene (127-18-4)						1								
25V. Toluene (108-88-3)									+		, , 			
26V. 1,2-Trans- Dichloroethylans (156-60-6)														
27V. 1,1,1.Trl- chloroethene (71-56-6)														
26V. 1, 1,2. Tri- chloroethene (79-00-5)														
29V. Trichloro- ethylene (79-01-6)	 													-
<b>30</b> V. Trichloro- fluoromethane (75-69-4)														
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1A. 2-Chloropheno (96-67-6)														
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34. 2.4-Dimethyl- phenol (106-67-9)														
4A. 4,6-Dinkro-O- Creeol (534-52-1)														
6A. 2,4 Dinitro- phenol (61-28-5)									+					
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7A. 4-Nitrophenol (100-02-7)									+					
8A. P.Chloro-M. Cresol (59-50-7)									   	· 				
9A. Pentachloro. phenol (87.86-5)		<b> </b>							+		-			
10A. Phenol (108-95-2)														
11A. 2,4,6.Tri- chlarophenol (88-06-2)									+	-				
EDA Enter acta	•••••••••••••••••••••••••••••••••••••••					PAGE	E V-5					NO2	TINITE ON H	N.

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CONTINUED FROM	A THE	FRON	<u>л</u>												
1. POLLUTANT	2.	MARK	'X'			3.	EFFLUENT				4. U	NITS	5, IN*	TAKE (optic	m
AND CAS NUMBER		h.:::	C	. MAXIMUM	DAILY VALUE	D. MAXIMUM 3	ALUE	C.LONG TERM	AVRG. VALUE	d NO.OF	. CONCEN-		AVERAG	S TERM	1
(if quailable)	QUIR-	PHE-	AB- BRNT	(I) CONCENTRATION	(2) MASS	(I) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	YSES	TRATION	U. MA33	(I) CONCEN-	(2) MASS	1.15
GC/MS FRACTION	- 84	SE/NE	UTRA	L COMPOUNDS						· · · · ·			1		1
18. Acenaphthene (83-32-9)															Ī
28. Acenaphtylene (208-96-8)															
38. Anthracene (120-12-7)					·										
48. Benzidine (92-87-5)															
58. Benzo (s) Anthracene (56-55-3)															
68. Benzo (s) Pyrene (50-32-8)								}							
78. 3,4-Benzo- Nuorenthene (205-09-2)															
88. Benzo (ghi) Perylene (191-24-2)															
98. Benzo (k) Fluoranthene (207-08-9)															
108. Bis (2-Chloro- ethoxy) Methane (111-91-1)															
118. Bis (2-Chloro- ethyl) Ether (111-44-4)				'											
128. Bis /2-Chloroise- propyl) Ether (102-00-1)		ļ!								[!					
138. Bis ( <i>2-Ethyl-hexyl</i> ) Phthalate (117-81-7)															Ī
14B. 4-Bromo- phenyl Phenyl Ether (101-55-3)															1
15B. Butyl Benzyl Phthalate (85-68-7)	]	ļ!													
168. 2-Chioro- naphthalene (91-58-7)	1														
178. 4-Chioro- phenyi Phenyi Ether (7005-72-3)						,									
188. Chrymne (218-01-9)				1											
198. Dibenzo (a,h) Anthracene (53-70-3)				1									1		
208. 1,2-Dichloro- benzene (95-50-1)															
218. 1,3-Dichloro- benzene (541-73-1)													1		

PA I.D.	NUMBER	(copy fr	om Item	1 01	Form	1)	OUTFALL	NUMBER

1. POLLITANT	,	MAPH	·X'			1	EFFLUENT				4. UI	NITS	5. INT	AKE (optio
AND CAS		Lb age	<u> </u>			b. MAXIMUM	PAY VALUE	C.LONG TERM	AVRG. VALUE	UNO OF			a LONG	TERM
NUMBER (if available)			AB	(1)	(2) MASS	(1)	(2) MARR	(i)	(2) MASS	ANAL	TRATION	D MASS	LI CUNCEN	() MARE
CAS FRACTION		E /NE	UTRAI	COMPOUNDS	continued'	CONCENTRATION	}	CONCENTRATION	}				THATION	
228. 1,4-Dichioro- benzene (106-46-7)									<b>F</b>					
238. 3,3 - Dichloro- benzidine (91-94-1)														
24B. Diethyl Phthalate (84-66-2)														
258. Dimethyi Phthelete (131-11-3)											_			
268. DI-N-Butyl Phthalate (84-74-2)														
278. 2,4-Dinitro- toluene (121-14-2)														
288. 2,8-Dinitro- toluene (606-20-2)														
298. Di-N-Octyl Phthalate (117-84-0)														
B. 1,2-Diphenyi- Uruzine (as Azo- naene) (122-66-7)														
18. Fluoranthene 208-44-0)														
328. Fluorene (86-73-7)														
118-74-1)														
348, Haxa- ohlaratutadiana (\$7-08-8)														
250. Hennebiore- systematediane (77-47-4)														
38, 100pharene (78-50-1)														
398. Nephthelene (91-20-3)														
408. Nitrobenzene (98-95-3)														
418. N-Nitro- odimethylamine (62-75-9)														
428. N-Nitrosodi- N-Propylamine (621-64-7)														

1. POLLUTANT	2.	MARK	·x·			3.	EFFLUENT				4. UI	NITS	5. IN	TAKE (upt
AND CAS NUMBER		b	C. 88-	. MAXIMUM	DAILY VALUE	b. MAXIMUM	DAY VALUE	C.LONG TERM	AVRG. VALUE	d NO.OF	L CONCEN		a LONG	TERM
(if available)	84- 186-	PHE- SENT	AN'T		{2] MASS			(1)	(2) MA35	ANAL-	TRATION	b. MASS	(I) CONCEN	(1) MARY
GC/MS FRACTION	- BA	SE/NE	UTRAL	COMPOUNDS	(continued)			CONCENTRATION		<u> </u>			THATION	
43B. N-Nitro- eodiphenylamine (86-30-6)												<u> </u>		
448. Phenanthrene (85-01-8)														
45B. Pyrene (129-00-0)										<b>*</b>				••••••••••••••••••••••••••••••••••••••
46B. 1,2,4 - Tri- chiorobenzene (120-82-1)														
CANS FRACTION	- PES	TICID	ES -							1			<u>+</u>	
1P. Aldrin (309-00-2)														
2P. <i>a-</i> BHC (319 <del>-84-6</del> )														
3P. β-BHC (319-85-7)														
ир. γ-внс (58-89-9)							· · · · · · · · · · · · · · · · · · ·							
5Ρ. δ-BHC (319-86-8)														
SP. Chiordane (\$7-74-9)														······································
7P. 4,4'-DDT (50-29-3)														
3P. 4,4'-DDE 72-55-9)														
9P. 4,4'-DDD 72-54-8}	_						• • • • • • • • • • • • • • • • • • • •							
0P. Dieldrin 60-57-1)														
1P. Q-Endosulfan 115-29-7)							· · · · · · · · · · · · · · · · · · ·							
2P. β-Endosulfen 115-29-7)			-											<del></del> .
I3P. Endosulfan Sulfste 1031-07-8}														
14P. Endrin 72-20-8)										+				
15P. Endrin Aldehyde 7421-93-4)						·								
6P, Heptechlor 76-44-8)			-											-

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

## CONTINUED FROM PAGE V-8

1. POLLUTANT	2.	MARH	, <b>X</b> ,			3.	EFFLUENT				4. UI	NITS	5. IN T	AKE (option
NUMBER		b.es	C. 06-	. MAXIMUM	AILY VALUE	b. MAXIMUM 3	BOAY VALUE	C.LONG TERM	AVRG. VALUE	d NO OF	a. CONCEN	IL MASS	H LONG	TERM
(i) available)		1 SEAT	1 SENT	CONCENTRATION	(2) MASS	CONCENTRATION	(2) MASS	(I) CONCENTRATION	(/) MASS	YSES	TRATION		(I) CONCEN THATION	(1) MARK
<b>BC/MS FRACTION</b>	- <b>PE</b> I	BTICIC	ES (col	ntinued)										
17P. Heptechlor Epoxide (1024-57-3)														
18P. PCB-1242 (53469-21-9)														
19P. PCB-1254 (11097-69-1)									••••••••••••••••••••••••••••••••••••••				<b></b>	
20P. PC8-1221 (11104-28-2)					<u> </u>									
21P. PCB-1232 (11141-16-5)														
22P. PCB-1248 (12672-29-6)							••••••••••••••••••••••••••••••••••••••				•	• • • • • · · · · · · · · · · · · · · ·		
23P. PC8-1260 (11096-82-5)												•••••		
24P. PCB-1016 (12674-11-2)													•	
26P. Toxaphene (8001-35-2)														

PAGE V-9

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

Form Approved OMB No. 2040-0086 Approval expires 5-31-02

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FFICIA	LUSEC	NLY (effluer	nt guidelin	es sub-cates	ories			<u> </u>				· · · · · · · · · · · · · · · · · · ·		

	ES (complete the follow	oing libi	Q			UNO (80 8	o section III)			
				3. FRE	QUENCY		· · · · · · · · · · · · · · · · · · ·	4. FLOW		
OUTFALL	2. OPEA	ATION	(6)	L DATE	b. MONTHE	a. PLOW (in a	RATE (	A TOTAL	ith units)	
(list)	CONTRIBL	rciniG-l list)	LOW	inerty	fapecify	I. LONE TERM	1. MARINUM BAILY		1. MARIMUM DAILY	ATION (in day)
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PRODUCTI	ON	-	1 a 197 A 2					141-		
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Are the limi	itations in the applicabl				decidentics in	r other mean	n of apenda	w/?	<u> </u>	
<b>•</b>	ES (complete New III-	<b>9</b>	-		A CALLER OF	- NO (SO 1	e Section IV			
If you answ	vered "yes" to Item III-E	, fiet the	automaticy subjects a	eresente an e		ment of your	evel of produ	ction, express	ed in the terms	s and un
	I STANCEDIE GUITIOUS &									
<u>.</u>			Section of the Production						2. AFFE OUTFA	CTED
, QUANTITY P	ER DAY D, UNITE G	-		16, <b>64</b> 1	EBATION, PHOBU (1990	ICT, MATERIAL ITY)	, 87C <i>.</i>		(list outfall)	number
		_		_						
	l									
IMPROVEM	ENTS									
	w required by any Fan	eral Sta	te or local author	ity to meet en	v implementet	ion schedule f	or the const-		ing or operatio	n of wa
water treatm	nent equipment or pra	ctices or	any other enviro	nmental progra	ms which may	affect the d	ischarges desc	cribed in this a	pplication? Th	is includ
or loan cond	litions.	100ns, ad	ministrative or en } <b>v ES (complete f</b>	torcement ordi he following te	ers, entorceme ( <b>bie</b> )	III compliance	scriedule lett to Item IV-B)	ers, stipulatioi	is, court orders	s, and gr
	ION OF CONDITION	1	FFECTED OUTF	ALLS					4. FIN	AL CON
AGREE	IMENT, ETC.	8. NO.		CHARGE	3. 88	HEF DESCRI	PTION OF PI	ROJECT		h h
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# CONTINUED FROM PAGE 2

# V. INTAKE AND EPFLUENT CHARACTERISTICS

See Instructions before proceeding - Complete one set of tables for each outfall - Annotate the outfall number in the space provided. NOTE: Tables V-A, V-B, and V-C are included on separate sheets numbered V-1 through V-B. A, B, & C:

When the space below to list any of the pollutants listed in Table 20-3 of the instructions, which you know or have reason to believe is discharged or may be adischarged from any cuttail. For every pollutant you list, briefly describe the reasons you believe it to be present and report any analytical data in your possession. 121 - H 1. POLLUTANT 1. HOUNCE 1. POLLUTANT 2. SOURCE

DESTINAL DISCHARGES NOT COVERED BY ANALYSIS The surround y use or productors as an intermediate or final product or 57° 9 The (so to from VI-B) - - - -

-

CONTINUE	FROM T	HE FR	ONT

VII. BIOLOGICAL TOXICITY TESTING DATA

Do you have any knowledge or reason to believe that any biological test for acute or chronic toxicity has been made on any of your discharges or on a receiving water in relation to your discharge within the last 3 years?

YES (identify the test(s) and describe their purposes below)

NO (go to Section VIII)

The any of the analysis reported in Item 1 Cost	artised by a contract laboratory or consulting firm?	NO (go to Secti	on (X)
analyzed by, and	auch laboratory or firm below)	C. TELEPHONE	D. POLLUTANTE ANALYZED
CERTIFICATION			
Antily under panalty of low that this document a measure that qualified personnel properly gether ar base persons directly responsible for gethering th I am aware that there are significant panalties fi	and all ettachments were propered under my direc of evaluate the information submitted. Based on m a information, the information submitted is, to the b ar submitting false information, including the pos	tion or supervision in ecco y inquiry of the person or pe est of my knowledge and be sibility of fine and imprico	dance with a system designed to reans who manage the system or lief, true, accurate, and complete. nmant for knowing violations.
A. NAME & OFFICIAL TITLE (type or print)-		B. PHONE NO.	(area code & no.)
C. SIGNATURE		D DATE SIGN	ED

PLEASE PRINT OR TYPE IN THE UNSHADED AREAS ONLY. You may report some or all of this information on separate sheets *(use the same format)* instead of completing these pages. SEE INSTRUCTIONS.

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

V. INTAKE AN	ID EF	FLUEN	т сна	RACTER	ISTICS	(continue	d from p	bage 3 of F	orm 2-Cl										(	OUTFALL
A monitor (a N)     VALUE     V																				
ALL MATINE CALL DEFLUENT CHARACTERISTICS (continued from page 3 of Form 2 c)      ART A. You must provide the results of at least one analysis for every pollutant in this table. Complete one table for each outfall. See instructions for additional details.      POLLUTANT     A MARKING DALLY VALUE     CONTROL TO ALLY VALUE     A MARKING DALLY VALUE					nal)															
1. POLLUTAN	KE AND EFFLUENT CHARACTERISTICS (continued from page 3 of Form 2-C)         K- You must provide the results of at least one analysis for every pollutant in this table         JTANT <ul> <li>MAXIMUM DAILY VALUE</li> <li>VALUE</li> <li>VALUE</li></ul>	allable)	ALUET	d. NO. 0	F	ONCEN.	iank)	a. AV	LONG	TERM VALUE	<b>b.</b> NG -1									
- Discharling	<u> </u>	(I) Oncent	RATION	(z) M/	A 56	(1)	BATION	(2) MAR	S CONC	(1) [#17661101	n (2) M/		ANALYS	ES <sup>0.</sup>	RATION	b. MASS	(1) CONCENTR	ATION	(2) MASS	ANALASI
a. Biochemical Oxygen Demand (BOD)																				
b. Chemical Oxygen Demand (COD)																				
c. Total Organic Carbon (TOC) .																				1
d. Total Suspend Solids (TSS)	be		-								1					<u></u>			<u></u>	
e. Ammonia (as l	٧)																			
f. Flow	V.	ALUE				VALUE	<b>.</b>		VALU	E	-						VALUE	<b>L</b> -		-
g. Temperature (winter)	<b>v</b>	ALUE				VALUE		<u></u>	VALU	E			<u> </u>	-†	°C		VALUE			+
h. Temperature (summer)		ALUE		<u></u>		VALUE			VALU	E	<u> </u>			-	°C	•••••	VALUE			
i. pH	M	INIMU	A	MAXIMU	IM	MINIMUM	9   N	AXIMUM		$\geq$	$\sim$			s	TANDARD	UNITS		$\geq$	$\sim$	
PART B - Mart whic colu	k "X" :h is li mn 2:	in colu mited e , you m	mn 2-a ither dir iust pro	for each ( ectly, or in wide quar	pollutar ndirecti ntitativr	nt you kno y but expri e dete or e	w or her seely, in n explar	ve reason : an effluen sation of th	to believe is t limitations teir presence	present. juideline e in your (	Mark "X" i , you must ; discharge. (	n colum provide t Comple	in 2-b for o the results te one tab	each pol of at lea le for ea	lutant you bel st one analysi ch outfall. See	ieve to be a s for that po a the instru	bsent. If yo Ilutant. For ctions for a	u mark c other po dditiona	olumn 2a foi llutants for w l details and	r any politica vhich you an requirement
1. POLLUT-	2. MA	RK X					6. MA2	3. E	FFLUENT	TC.LC	NGTERM	AVRG.	VALUET		4. L			5. IN	TAKE (opti	ional)
CAS NO. (if available)	PRE-	AB- BENT	E. MA	(I) NTRATION	(2)	MASS	CONCE	()	1 <b>5/e)</b> (2) MASS	CONC	(1)	ullable) (z)	MÁSS	ANAL- YSES	Fa. CONCEN	b. MAS	5 CONCE	AVERAC	SE VALUE	• 0. ri i •
e. Bromide (24959-67-9)	-														1	1			1	
b. Chlorine, Total Residual																			<u>+</u>	
c. Color										-										
d, Fecal Coliform										-				-						
e. Fluoride (16984-48-8)	<u> </u>									-				<u>-</u> -	1					
f. Nitrate— Nitrite (as N)																				

ITEM V-B CON	ITINU	DFR	DMFRONT										
1. POLLUT-	2. M A	<b>HK .X</b>			3.	EFFLUENT	CLONG TOTAL	AVEG VALUE	r <u></u>	4. UI	NITS	5. INTA	TERM
ANT AND	8.88-	b.ss.	a. MAXIMUM	DAILY VALUE	D. MAXIMUM 3	LOAY VALUE	(if ava	Nable)	d, NO. OF	8. CONCEN-	b. MASS	AVENAGE	VALUE
(if available)	a a hi	SENT	(I) CONCENTRATION	(2) MASS	CONCENTRATION	(2) MASS	CONCENTRATION	(2) MASS	VSES			LONCENTRATION	[/] MASS
g. Nitrogen, Total Organic (as N)													
h. Oil and Greess													
i. Phosphorus (as P), Total (7723-14-0)													
j. Radioactivity					L		L						
(1) Alphe, Total													
(2) Beta, Total													
(3) Flashum, Tetel													
(4) Radium 226, Total													
n. Bullain (a) 304) (14909-79-8)		` 									-		
L Quilido (a) B)													
(14205-48-3)													
e. Curlectente									 				
Total (7420-00.0)													
And													
Line and the second									 		 		
1. Megneciast.c											 		· · · · · · · · · · · · · · · · · · ·
Total (7439-00-0) u. Mohybdenyery													
Totel (7439-98-7) v. Mengenese, Totel													
(7439-96-5) w. Tin, Total		<u> </u>									·		
(7440-31-5) x. Titunium,	┨──								<b> </b>				
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EPA Form SUG-BUILDE

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CONTINUED FRO	M PAG	E 3 OF	FORM	1 2-C											
PART C - If you 2-a fo waste believ of at dinitr conce be dis	are a p or all su <i>water</i> to is abi least or opheno intratio icharge	rimary Joh GC/ John G	industr /MS fra r, and n you may ysis for methyl 00 ppb ( that th	ry and this outfal actions that app <i>conrequired GC/</i> rk column 2a for that pollutant i 1-4, 6 dinitrophe or greater. Other here are 7 pages	Il contains procei ly to your industry (MS fractions), m any pollutant, yo f you know or ha nol, you must pr nol, you must pr nol, you must pr rwise, for pollutar s to this part; ples	Is wastewater, re y and for ALL tox ark "X" in colum u must provide th we reason to beli ovide the results nts for which you ase review each o	ifer to Table 2c-2 ic metals, cysni n 2-b for each p e results of at lea eve it will be dis of at least one a mark column 2b carefully. Compl	in the instruction des, and total pho- ollutant you know lat one analysis for charged in concer- inalysis for each you must either ate one table (all	ns to determine anols. If you are or have reason or that pollutant, entrations of 10 of these polluta submit at least o 7 pages) for eac	which of th not require to believe If you mark ppb or grea nts which ne analysis ch outfall.	e GC/MS frag of to mark col is present. M. k column 2b fo ater. If you ma you know or h s or briefly des See instruction	ctions you mu umn 2-a (sec ark "X" in co or any polluta ark column 2 nave reason t cribe the reas ons for additional sectors and the sectors of the sectors	ust test for. Ma condary indus lumn 2-c for e int, you must p b for acrolein, to believe that sons the pollut onal details ar	ark "X" in col tries, nonpro ach pollutan rovide the re acrylonitrile you dischary ant is expect nd requireme	umia CCSS Lyou sults , 2,4 ge in edito ents
1. POLLUTANT	2.	MARK	<b>.x</b> .			3. 1	EFFLUENT				4. UI	NITS	5. INT	AKE (optio	<b>n</b> .d
NUMBER	ATEST		C. 82-	. MAR	WALUE	b. MAXIMUM 3	a DAY VALUE	C.LONG TERM	lable)	d NO.OF	A. CONCEN-	b MASS	AYERAG	TERM	1. 1 0.1
(if available)	9018-	<b>SENT</b>	SENT	CONC SOTO A	at wass	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	YSES	TRATION		(I) CONCEN- TRATION	(2) MASS	1565
METALS, CYANIE	E, AN	D TOT	AL PHE	INOLS.						ļ					
1M. Antimony, Total (7440-36-0)															
2M. Arsonic, Total (7440-38-2)															
36. Beryllium, Total, 7440-41-7)															-
4M. Cadmium, Total (7440-43-9)															
EM. Chromium, Fotal (7440-47-3)															
1440-40-40															
764. Louid, Total (7430-82-1)														۰.	
6M. Mercury, Total (7430-07-6)															
14. Nieter, Total (7440-02-0)							· · · · · · · · · · · · · · · · · · ·								
10M. Selenium, Totel (7782-49-2)															_
11M. Silver, Total (7440-22-4)															
12M. Theilium, Totel (7440-28-0)															
13M. Zinc, Total (7440-66-6)															
14M. Cyanide, Total (57-12-5)															
15M. Phenois, Total															
DIOXIN															·
2,3,7,8-Tetra- chlorodibenzo-P- Dioxin (1764-01-6)				DESCRIBE RES											
															·

EPA Form 3510-2C (8-90)

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CONTINUED FROM	I THE	FRON	T			······································		······································						فالأقطان واسترجين
1. POLLUTANT	2.	MARK	'X'			3.	EFFLUENT				4. UI	NITS	5 INT	AKE (option
NUMBER	A TE ST 186 88-	D. BE-	C	a. MAXIMUM	DAILY VALUE	D. MAXIMUM 3 (1) ava	ilable)	C.LONG TERM	ilable) VALUE	U NO OF	& CONCEN	0 MA55	A LONG	TEHM
GCAIS FRACTION	VO	LATIL	E COM	POUNDS	[2] MA55	CONCENTRATION	123 MASS	CUNCENTHATION	(2) NASE	VSES			THATION	(/] MASS
1V. Acrolein (107-02-8)													• • • • • • • •	• • • • • • •
2V. Acrylonitrile (107-13-1)														· · - ·
3V. Benzene (71-43-2)														
4V. Bis (Chloro- methyl) Ether (642-88-1)														
5V. Bromoform (75-25-2)														
6V. Carbon Tetrachioride (56-23-5)														
7V. Chiorobenzens (108-90-7)														
8V. Chiorodi- bromomethane (124-48-1)														,
9V. Chloroethane (75-00-3)														
10V. 2-Chioro- ethylvinyi Ether (110-75-8)														
11V. Chloroform (67-66-3)														
12V. Dichloro- bromomethene (75-27-4)	 						·							
13V. Dionioro- difluoromethene (75-71-8)													 	
14V. 1,1-Dichioro- ethene (75-34-3)														-
15V, 1,2-Dichloro- ethene (107-0 <b>6-2</b> )														
16V. 1,1-Dishloro- ethylene (78-36-4)					<u></u>					· · · · ·			ļ	
17V. 1,2-Diehloro- propene (78-87-5)														
16V. 1,3-Dichlaro- propylene (542-75-6)														
19V, Ethylbenzene (100-41-4)														
20V. Methyl Bromide (74-83-9)														
21V. Methyl Chioride (74-87-3)														

Form 3510-2C (8-90)

		E V-4			EPA I.C	D. NUMBER (COPY	from Item 1 of F	orm 1) OU FAL	LNUMBER	]					
1. POLLUTANT	2.	MARK	'X'			3,	EFFLUENT				4 13	NITS	5 IN 7	AKE Jootie	
AND CAS NUMBER		b. e=-	C. 88-	. MAXIMUM		E D. MAXIMUM	DAY VALUE	CLONG TERM	AVRG. VALUE	L NO.OF	4.01		A. LONG	TERM	
(if available)	RE- QUIR-	PRE:	AB- SENT	(1)	(2) MASS		(1) MASS	(1)	(z) MASS	ANAL-	TRATION	b, MASS	(1) CONCEN-	(2) MASS	41.41
GC/MS FRACTION	- VO	LATIL	E COM	POUNDS (conth	nued)		1	CONCENTRATION					TRATION		+
22V. Methylene Chioride (75-09-2)															<b>₽</b> - 
23V. 1,1,2,2-Tetra- chloroethane (79-34-5)													<u> </u>		<b>†</b> .
24V. Tetrachioro- ethylene (127-18-4)															Ţ
25V. Toluene (108-88-3)															1
26V. 1,2-Trans- Dichloroethylene (156-60-5)															+
27V. 1,1,1-Tri- chloroethane (71-55-6)														*=	Ť
28V. 1,1,2-Tri- chloroethane (79-00-5)															†
29V. Trichioro- athylene (79-01-6)													<b>*</b>		†
9V. Trichloro- uoromethane ?15-69-4)															1
31V. Vinyl Chloride (75-01-4)															1
GC/MS FRACTION	- ACI	D CON	POUN	DS											
1A. 2-Chiorophenol (95-57-8)															
2A. 2,4-Dichloro- phenol (120-83-2)															•····
3A. 2,4-Dimethyl- phenol (105-67-9)													-		<b>F</b>
4A. 4,6-Dinitro-O- Cresoi (534-52-1)												•	†		• · · · · · · · · · · · · · · · · · · ·
5A. 2,4-Dinitro- phenol (51-28-5)															ŧ
6A. 2-Nitrophenol (88-75-5)															†
7A, 4-Nitrophenol (100-02-7)															
8A. P-Chloro-M- Cresol (59-50-7)													<u>+</u>	†	1
9A. Pentechloro- phenol (87-86-5)													+		-
10A. Phenol (108-95-2)													-		1
11A. 2,4,6-Tri- chlorophenoł (88-06-2)													<u> </u>	<b> </b>	

CONTINUED FROM	A THE	FRON	T											
1. POLLUTANT	2.	MARK	.ж.			3.	EFFLUENT				· 4. UI	NITS	5. INT	AKE (option
AND CAS NUMBER	A. T E OT 186 8 E -		C. 88-	a. MAXIMUM I	AILY VALUE	D. MAXIMUM 1 (1] ava	ilable)	C.LONG TERM (11 ava		L NO OF	A. CONCEN- TRATION	b MASS	AVERAG	TERM
(IT AVAILABLE)		EE /NE	UTRAL	COMPOUNDS		CONCENTRATION	10,-00	CONCENTRATION	(1)	· 3E 3			TRATION	[1] MABS
				1	Г <u> </u>						· · · · ·		<b>├</b> ──── <b>├</b>	
18. Acenephthene (83-32-9)														
2B. Acenaphtylene (208-96-8)														
38. Anthracene (120-12-7)														
48, Benzidine (92-87-6)														
58. Benzo (a) Anthracene (56-55-3)														
68. Benzo (s) Pyrane (50-32-8)														
76. 3,4-8enzo- fluoranthene (205-99-2)					_									
88. Benza (ghi) Perviene (191-24-2)														
98. 8enzo (k) Fluoranthene (207-08-9)											-			
108. 8is (3-Chloro- ethoxy) Methane (111-91-1)														
11B. Bis (2-Chioro- ethyl) Ether (111-44-4)														······································
128. Bis /2-Chloroice- propyl Ether (102-80-1)														
138. Bis (3-Edity)- hezyi) Phthalata (117-81-7)														
148. 4-Bramo- phanyl Phanyl Ether (101-55-3)														
158. Butyi Benzyi Pichelete (85-48-7)														
108. 2-Chioro- nepitihalone (01-06-7)														
175. 4-Chiore- phonyl Phonyl Ether (7908-72-3)														
188. Chrysana (218-81-9)														
198. Olbenzo (a,h) Anthrecene (63-70-3)														
208. 1,2-Dichloro- benzene (95-50-1)														
218. 1,3-Dichioro- benzene (541-73-1)														

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

CONTINUED FRO	M PAG	E V-6												
1. POLLUTANT	2.	MARK	.ж.			3. (	EFFLUENT				4. UN	IITS	5. INT	AKE (option
AND CAS Number	A TE ST	-	C. 88-	A. MAXIMUM	DAILY VALUE	b. MAXIMUM 3	ODAY VALUE	C.LONG TERM	AVRG. VALUE	ANAL	A. CONCEN	D MASS	AVERAGE	YALUE
(if evailable)		SENT	A. NT	(I) CONCLUTRATION	(2) MASS	CONCENTRATION	[2] MA33	CONCENTRATION	fet mass	YSES	TRATION		THATION	()) MASS
GC/MS FRACTION	- BA	BE/NE	JTRAL	COMPOUNDS	(continued)	<u> </u>							┟ ╁	
22B. 1,4-Dichloro- benzene (106-46-7)														
23B. 3,3'-Dichloro- benzidine (91-94-1)														
248. Diethyl Phthalate (84-66-2)					-									
258. Dimethyl Phtheiste (131-11-2)														
26B. DI-N-Butyl Phthelate (84-74-2)														
278. 2,4-Dinitro- toluene (121-14-2)						ļ				ļ				
288. 2,6-Dinitro- toluene (606-20-2)						<b>_</b>								
295. DI-N-Octyl Phthelate (117-54-0)											<u> </u>			
1,2-Diphenyl- andrazine (as Azo- asene) (122-86-7)													_	
EB. Fluoranthene (CS-44-0)														·····
(86-73-7)														<b></b>
328. Henschlandsmaane (118-74-1)										<u> </u>				
348. Nexe- chlerobutadiene (87-68-3)													-	
358, Mexachioro- cyelopartadiene (77-47-4)														
368. Hexachioro- ethane (67-72-1)						ļ					<b>_</b>			ļ
378. Indeno (1, 2, 2-cd) Pyrene (193-38-6)														
368. isophorone (78-59-1)										ļ			-	
39B. Naphthalene (91-20-3)													ļ	
408. Nitrobenzene (98-95-3)										ļ		ļ	<b>_</b>	
418. N-Nitro- sodimethylamine (62-75-9)														
42B. N-Nitrosodi- N-Propylamine (621-64-7)														

1 BOLLITANY!	•					3.1	EFFLUENT				4. UI	NITS	5. IN1	AKE (optio
AND CAS	#. 1.78.97	b. es.	C	. MAXIMUM	DAILY VALUE	b. MAXIMUM S	A DAY VALUE	C.LONG TERM	AVRG. VALUE	d NO. OF	. CONCEN-	b MA88	A LONG	TERM
(if eveilable)		PRAT		(I) CONCENTRATION	(2) MASS	(I) CONCENTRATION	(s) MASS	(1) CONCENTRATION	{2} MASS	VSES	TRATION		(I) CONCEN- TRATION	{2} MABS
CAN FRACTION	- 84	E/NE	TRAI	COMPOUNDS	(continued)									
I3B. N-Nitro- odiphenylamine 86-30-6)														
:48. Phenenthrene 85-01-8)												 		
68. Pyrene 129-00-0)					•									
68. 1,2,4 - Tri- hiorobensene 120-82-1)														
CAN FRACTION	- 125	TICIO		120 V.		in the second								
P. Aldrin 309-00-2)														
IP. G-BHC 319-84-6)														
P. β-BHC 319-85-7)														
μ. γ-8HC 58-89-9)														
IP. 8-енс 31 <b>9-ее-</b> )												<u>,</u>		
IP. Chlordens \$7-74-8}									- <u></u>				<u> </u>	
P. 4,4'-DDT 99-29-3)										1				
P. 4,4'-DDE 72-55-0)					···· /					1				<u> </u>
P. 4,4"-DDD (72-54-8)					•									
(07. Dieldrin 80-57-1)					· · · · · · · · · · · · · · · · · · ·								f	
11P. G-Sadowitan (115-29-7)														
12P. β-Endosultan 115-29-7)					, , , , , , , , , , , , , , , , , , ,					1				
13P. Endoeutfen Sulfate 1031-07-8)														· · · · · · · · · · · · · · · · · · ·
14P. Endrin (72-20-8)										1				
15P. Endrin Aldehyde 7421-93-4)										1			1	
16P. Heptechlor					<u> </u>					1			+	

EPA Form 3610-2C (8-00)

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

CONTINUED FROM	A PAG	E V-8													
1. POLLUTANT	2.	MARK	1 <b>X</b> 1	I		3. (	EFFLUENT				4. UI	NITS	5. INT	AKE (optio	n.
NUMBER	A TEST	h as-	C. 84-	. MAXIMUM	DAILY VALUE	b. MAXIMUM 3	able)	C.LONG TERM	AVRG. VALUE	U.NO.OF	. CONCEN	1. 14.000	A LONG	TERM	6 <u>.</u>
(if available)		<b>SEAT</b>	<b>seli</b> r	(I) CONCENTRATION	{z} ====	(I) CONCENTRATION	{z} mass	(1) CONCENTRATION	{2] MASS	YSES	TRATION	U. MA35	(I) CONCEN-	(2) MABS	
GC/MS FRACTION	— PE	ITICID	E\$ (00	ntinued)											1
17P. Heptachlor Epoxide (1024-57-3)															
18P, PC8-1242 (53469-21-9)															
19P. PC8-1254 (11097-89-1)															-
20P. PCB-1221 (11104-28-2)													+		•
21P. PCB-1232 (11141-16-5)											· · · · · · · · · · · · · · · · · · ·				1
22P. PCB-1248 (12672-29-6)															
23P. PCB-1260 (11096-82-5)	-														
24P. PCB-1016 (12674-11-2)													1		
25P. Toxaphene (8001-35-2)													<b>∤</b>		

PAGE V-9

ITEM V-B CON	TINUE	DFR	M FRONT											
1. POLLUT-	2. MA	RK 'X'			3.	EFFLUENT				4. UI	NITS	5. INT	AKE (optional)	
ANT AND	8. 82-	b.er-	. MAXIMUM	DAILY VALUE	b. MAXIMUM 3	O DAY VALUE	C.LONG TERM	avec. VALUE	d. NO.OF	A. CONCEN-	h M + 55	A VEHANS	E VALUE	NO.OF
(if available)	SENT	AB-	CONCENTRATION	(+) MASS	CONCENTRATION	(2) MARB	(I) CONCENTRATION	{2} MASS	VSES	TRATION	U. 11 A 38	CONCENTRATION	(2) MASS	YSES
g. Nitrogen, Total Organic (as N)														
h. Oil and Greese														
L Phosphorus (as P), Total (7723-14-0)														
J. Radioactivity														
(1) Alpha, Total													-	
(2) Beta, Totel														
(3) Radium, Total														
(4) Radium 226, Total														
k. Sulfete (as SO4) (14808-79-8)														
l. Sulfide (as S)														
m, Suffite (ar SO <sub>3</sub> ) (14265-45-3)														
n, Surfectents														
o, Aluminum, Total (7429-90-5)														
p. Barium, Totel (7440-39-3)						· · · · · · · · · · · · · · · · · · ·								
q. Boron, Total (7440-42-8)													· .	
r. Cobelt, Totel (7440-43-4)														
s. Iron, Total (7439-89-6)														
t. Megnesium, Total (7439-95-4)														
u. Molybdenum, Total (7439-98-7)														
v. Manganesa, Total (7439-96-5)														
w. Tin, Totel (7440-31-5)														
x. Titanium, Total (7440-32-6)														

EPA Form 3510-2C (Rev. 2-85)

CONTINUE ON PAGE V

CONTINUED FRO	M PAG	E 3 OF	FORM	M 2·C	EPA 1.D. 1	NUMBER (COPY	rom Item 1 of F	om I) OUTFAL	L NUMBER			Forn OML Appi	n Approved. 3 No. 2040-008 rovel expires 7-3	5 31- <b>88</b>	
PART C - If you 2-a fo believ of at 1 dinitr conce be dis	are a po r all su water o re is abs east or opheno intratio charge	rimary i ch GC/ outfalls ient. If y ie analy il, or 2- ns of 1( id. Note	industr /MS fr <i>i, and r</i> you ma ysis for methy 00 ppb a that t	ry and this outfall actions that apply conrequired GC// ink column 2a for i r that pollutant if 1-4, 6 dinitropher or greater. Other here are 7 pages	contains proces y to your industr <i>MS fractions)</i> , m any pollutant, yo you know or ha nol, you must pri- wise, for pollutai to this part; plei	Is wastewater, re y and for ALL tox lark "X" in colum u must provide th live reason to belii ovide the results nts for which you ase review each (	ifer to Table 2c-2 ic metals, cyanic in 2-b for each p le results of at lea eve it will be dis of at least one a mark column 2b carefully. Compl	I in the instruction des, and total pho- pollutant you know ast one analysis for charged in concer- nalysis for each , you must either ate one table (all	ns to determine t anols. If you are or have reason or that pollutant. entrations of 10 of these polluta submit at least o 7 pages) for eac	which of th not require to believe If you mar ppb or gre nts which ne analysis ch outfall.	e GC/MS frai so to mark col is present. M k column 2b fo ater. If you ma you know or t s or briefly des See instruction	ctions you mi umn 2-a (sec ark "X" in co or any polluta ark column 2 have reason to cribe the reasons for additi	ust test for. Mi condary indus: lumn 2-c for e nt, you must p b for acrolein, to believe that sons the pollut onal details a	Ink "X" in colu tries, nonprod ach pollutant rovide the res , acrylonitrile, t you discharg tant is expect nd requireme	Jmn Jess you Jults , 2,4 je in Jed to ents.
1. POLLUTANT	2.	MARK	.x.			3. F	EFFLUENT				4. UI	VITS	5. IN1	AKE (optio	nal)
NUMBER	LTEST	D. BE-	C. BE-	. MAXIMUM C	SAILY VALUE	b. MAXIMUM 3 (if avai	lable)	C.LONG TERM	lable)	L NO.OF	A. CONCEN-	b. MASS	8. LONG	TERM	D. NO. OF
(if available)	ฉบิโส- 80	SENT	SENT	CONCENTRATION	(2) MASS	CONCENTRATION	(2) MA85	(1) CONCENTRATION	(2) MA88	YSES	TRATION		(1) CONCEN- TRATION	(2) MASS	YSES
METALS, CYANIE	E, ANI		AL PHE	ENOLS	<u> </u>	<b> </b>	<u> </u>			<b> </b>					
1M. Antimony, Totel (7440-36-0)															
2M. Arsenic, Total (7440-38-2)															
3M. Beryllium, Total, 7440-41-7)															
4M. Cedmium, Total (7440-43-9)															
5M. Chromium, Totel (7440-47-3)									<u> </u>						
6M. Copper, Total (7440-50-8)															
7M. Leed, Total (7439-92-1)															
8M. Mercury, Tota (7439-97-6)															
9M. Nickel, Total (7440-02-0)												_ 11 1 1 1 2 1 2 1			
10M, Selenium, Total (7782-49-2)															
11M. Silver, Total (7440-22-4)															
12M. Thallium, Total (7440-28-0)															
13M. Zinc, Totel (7440-66-6)															
14M. Cyanide, Total (57-12-5)															
15M. Phenois, Total								-							
DIOXIN		·		k		·	<u> </u>	**************************************	••••••••••••••••••••••••••••••••••••••	•	• <u>•</u> ••••••••••••••••••••••••••••••••••		·		
2,3,7,8-Tetra- chlorodibenzo-P- Dioxin (1764-01-6				DESCRIBE RES	ULTS										

I. POLLUTANT	Z. 1	MARK	'X'			3.	EFFLUENT				4. UI	NITS	5. IN1	AKE (optio	nal)
NUMBER	ATEST-	D. BE-	C	a. MAXIMUM	DAILY VALUE	b. MAXIMUM 3	O DAY VALUE ilable;	C.LONG TERM	AVRG. VALUE	d NO.OF	. CONCEN-	<b>b</b>	8. LONG	TERM	b. NO.OF
(if available)		BENT	SENT	(I) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	YSES	TRATION	0, MA33	(1) CONCEN-	(2) MASS	YSES
C/MS FRACTION	- VO	LATIL	E COM	POUNDS											
1∨. Acrolein (107-02-8)															
2V. Acrylonitrile (107-13-1)															
3∨. Benzene (71- <b>43-2)</b>											·····				
4V. Bis (Chloro- methyl) Ether (542-88-1)															
5V. Bromoform (75-25-2)															
6V. Carbon Tetrachloride (56-23-5)															
7V. Chlorobenzene (108-90-7)															
8V. Chlorodi- bromomethane (124-48-1)															
9V. Chioroethene (75-00-3)														···	
10V. 2-Chloro- ethylvinyl Ether (110-75-8)															
11V. Chioroform (67-66-3)															
12V. Dichloro- bromomethane (75-27-4)															To a size of
13V, Dichloro- difluoromethane (75-71-8)															
14V. 1,1-Dichloro- ethene (75-34-3)															
15V. 1,2-Dichloro- ethane (107-06-2)															
16V. 1,1-Dichloro- ethylene (75-35-4)															
17V. 1,2-Dichloro- propene (78-87-5)															
18V. 1,3-Dichloro- propylene (542-75-6)															
19V. Ethylbenzene (100-41-4)															
20V. Methyl Bromide (74-83-9)															
21V. Methyl Chloride (74-87-3)															

EPA Form 3510-2C (Rev. 2-85)

CONTINUED FROM	I PAG	- V-4			EPA 1.D.	NUMBER (COPY )	from Item 1 of F	orm I) OU FAL		]		Form Approved OMB No. 2040 Approval expir	d. 2-0086 'es 7-31-88		
1. POLLUTANT	2.	MARK	'X'			3.	EFFLUENT		ومري أنسخ فيتجرز التستير		4. UI	NITS	5. INT	AKE (optio	inal)
AND CAS NUMBER	A TEST	b. ez-	C	. MAXIMUM	DAILY VALUE	b. MAXIMUM 3	in DAY VALUE	C.LONG TERM	AVRG. VALUE	d NO.OF			S. LONG	TERM	b. NO.OF
(if available)		PRE-	SENT	(1) CONCENTRATION	(Z) MASS	(I) CONCENTRATION	(2) MASS	(I)	[2] MASS	YSES	TRATION	D, MASS	(I) CONCEN-	(2) MASS	ANAL- YSES
GC/MS FRACTION	- vo	LATIL	E COM	POUNDS (contin	nued)										<u>├</u>
22V. Methylene Chloride (75-09-2)														····	
23V. 1,1,2,2-Tetra- chloroethans (79-34-5)															<u></u>
24V. Tetrachloro- ethylene (127-18-4)															
25V, Toluene (108-88-3)															
26V. 1,2-Trans- Dichloroethylene (156-60-5)															
27V. 1,1,1-Tri- chloroethane (71-55-6)															
28V. 1,1,2-Tri- chloroethane (79-00-5)															
29V, Trichloro- ethylene (79-01-6)															
30V. Trichloro- fluoromethane (75-69-4)															
31V, Vinyl Chloride (75-01-4)															
GC/MS FRACTION	- AC	D CON	POUN	DS											
1A. 2-Chlorophenol (95-57-8)															
2A. 2,4-Dichloro- phenol (120-83-2)															
3A. 2,4-Dimethyl- phenol (105-67-9)															
4A. 4,6-Dinitro-O- Cresol (534-52-1)															
5A. 2,4-Dinitro- phenol (51-28-5)															
6A. 2-Nitrophenoi (88-75-5)															
7A. 4-Nitrophenol (100-02-7)															
8A. P-Chioro-M- Cresol (59-50-7)															
9A, Pentachioro- phenol (87-86-5)															
10A. Phenol (108-95-2)															
11A. 2,4,6-Tri- chlorophenol (88-06-2)															

LUNTINUED FROM	A THE	FRON	T												
1. POLLUTANT	2.	MARK	' <b>X</b> '	I		3. (	EFFLUENT				4. UI	NITS	5, IN1	TAKE (optio	nai)
AND CAS NUMBER		b	C	. MAXIMUM	AILY VALUE	b. MAXIMUM S	BOAY VALUE	C.LONG TERM	AVRG. VALUE	d NO.OF	. CONCEN-	<b>b</b>	8. LONG	TERM	b. NO. OF
(if available)	-	LENT.	SENT	(I) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MA88	(I)	{z} mass	YSES	TRATION	0. 147.85	(I) CONCEN-	(2) MASS	VSES
GC/MS FRACTION	- 84	SE/NE	UTRA	L COMPOUNDS											
18. Aconophthene (83-32-9)															
28. Acenaphtylene (208-96-8)															
38. Anthracene (120-12-7)															
48. Benzidine (92-87-5)															
58. Benzo (s) Anthracene (56-55-3)															
68. Benzo (s) Pyrane (50-32-8)															
78. 3,4-Benzo- fluorenthene (205-99-2)															
88. Benzo (shi) Perviene (191-24-2)															
98. Benzo (k) Fluoranthene (207-08-9)															
10B. Bis (2-Chloro- ethoxy) Methane (111-91-1)															
118. Bis (2-Chloro- ethyl) Ether (111-44-4)															
128. Bis /2-Chieveier- prepyl) Ether (102-80-1)															
138. Bis (2- <i>Ethyl-</i> hexyl) Phthelete (117-81-7)					_										
148. 4-Bromo- phenyl Phenyl Ether (101-55-3)															
158. Butyl Benzyl Phthelate (85-68-7)															
168. 2-Chioro- nephthalene (91-58-7)															
178. 4-Chioro- phenyl Phenyl Ether (7005-72-3)															
188. Chrysone (218-01-9)															
198. Dibenzo (a,h) Anthracene (53-70-3)															
208. 1,2-Dichloro- benzene (95-50-1)															
218. 1,3-Dichioro- benzene (541-73-1)															

EPA Form 3510-2C (Rev. 2-85)

CONTINUE ON PAGE V-7

CONTINUED FRO	<u>M PAG</u>	E V-8			EPA I.D.	NUMBER (COPY	from Item 1 of F	OFT I) OUTFAL	LNUMBER			Form Approve OMB No. 204 Approval expir	d. 0-0086 res 7-31-88		
1. POLLUTANT	2.	MARK	·X·			3,	EFFLUENT	يتنييني ومحجرة منديبا فناتبا	يرا المزيين نمحمد بمدجه الخليم		4. U1	TITS	5. IN 7	AKE (untio	nali
AND CAS Number	A 7# 87	h se-	C. 84-	a. MAXIMUM	DAILY VALUE	6. MAXIMUM 2	DAY VALUE	C.LONG TERM	AVRG. VALUE	d NO.OF	a. CONCEN-		A LONG	TERM	b. NO. OF
(if available)	001H-	SENT	SENT	(I)	(2) MASS	(1) CONCENTRATION	(2) MASS	(I) CUNCENTRATION	[2] MASE	YSES	TRATION		(I) CONCEN-	(2) MARE	YSES
GC/MS FRACTION	- BA	E/NE	JTRAL	COMPOUNDS	(continued)										
228. 1,4-Dichloro- benzene (108-46-7)															
23B. 3,3'-Dichioro- benzidine (91-94-1)															
248. Diethyl Phthalate (84-66-2)															
258. Dimethyl Phthalete (131-11-3)															
26B. DI-N-Butyl Phthelete (84-74-2)															1
27B. 2,4-Dinitro- toluene (121-14-2)															
288. 2,6-Dinitro- toluene (606-20-2)															
298. Di-N-Octyl Phthalate (117-84-0)															
308. 1,2-Diphenyi- hydrazine (as Azo- benzene) (122-86-7)															
31B, Fluorenthene (205-44-0)															
328. Fluorene (86-73-7)				·····	 										
338. Hexachlorobenzane (11R-74-1)															
34B. Hexa- chlorobutadiene (87-68-3)															
35B. Hexachloro- cyclopentadiene (77-47-4)															
36B. Hexachloro- ethane (67-72-1)															
37B, Indeno (1,2,3-cd) Pyrene (193-39-5)															
388. Isophorone (78-59-1)															
398. Naphthalene (91-20-3)														•	
408. Nitrobenzene (98-95-3)															
41B. N-Nitro- sodimethylamine (62-75-9)															
42B. N-Nitrosodi- N-Propylamine (621-64-7)															

I. POLLUTANT	· · ·	MADM				3 1	FEELUENT				A 111	NITS	8 IN 1	AKE (uptio	mali
AND CAS	<u> </u>	1.	-			T. MAXIMUM 3	DAY VALUE	LONG TRAM	AVRO. VALUE	4 80.05			A. LONG	TERM	
NUMBER	-		LIEVEC	6. MAAIMUM I		(1)		(1) ava		ANAL	A. CONCEN-	b. MASS	AYERAG	VALUE	ANAL
		- TANT	-	CONCENTRATION	12) MASS	CONCENTRATION	(2) MASS	CONCENTRATION	[]] mase	7383			TRATION	()) #A85	
GC/ME FRACTION	- BA	SE/NE	UTHAL	COMPOUNDS	(continued)	·	hanan			<b> </b>			<b> </b>		
438, N-Nitro- sodiphenylamine (86-30-6)															
448. Phenenthrene (85-01-8)											•			·	
468. Pyrene (129-00-0)															
468. 1,2,4 - Tri- chiorobenzene (120-82-1)							·								
GCANS FRACTION	- PE	TICID	ES												
1P. Aktrin (309-00-2)															
2P. (1-8HC (319-84-6)															
ЗР. β-ВНС (319-85-7)										1					
4 <b>Ρ. γ-</b> 8HC (58-89-9)										ļ					1
бр. ð∙внс (319-86-8)															
6P. Chiordana (57-74-9)										[					1
7P, 4,4'-DDT (50-29-3)						· · · · · · · · · · · · · · · · · · ·								<b></b>	
8P. 4,4'-DDE (72-55-9)															
9P. 4,4'-DDD (72-54-8)										<b> </b>					
10P, Dieldrin (60-57-1)									······						<u> </u>
11P, <i>Q</i> -Endosulfan (115-29-7)							· · · · · · · · · · · · · · · · · · ·			ļ					
12P, β-Endosulfan (115-29-7)									<u> </u>	<u> </u>				<u></u>	
13P, Endosulfan Sulfate (1031-07-8)										<u>}</u>		}			
14P, Endrin (72-20-8)							<u> </u>			<u> </u>					1
15P, Endrin Aldehyde (7421-93-4)										<u> </u>				e	<u> </u>
16P. Heptachlor (76-44-8)							<del> </del>		<u> </u>	<u> </u>					
						A				1			Laboration and the second		<u> </u>

EPA Form 3510-2C (Rev. 2-85)

CONTINUE ON PAGE V-9

	1 PAGE	: <b>V-8</b>			EPA I.D.	NUMBER (COPY )	rom Item 1 of F	orm 1) OUTFAL	LNUMBER			Form Ap OMB No Approve	proved. . 2040-0086 I expires 7-31-8	8	
1. POLLUTANT	2. 9	ARK	'X'			3. 1	EFFLUENT				4. UI	NITS	5. IN1	AKE (optio	mal)
AND CAS NUMBER		6. ee-	C	. MAXIMUM		b. MAXIMUM 3	O DAY VALUE	C.LONG TERM	AVRG. VALUE	d NO.OF	. CONCEN		A LONG	TERM	b. NO. OF
(íf available)	(if available)	CONCENTRATION	(2) MA35	(1) CONCENTRATION	(z) MASS	(1) GONCENTRATION	(2) MASS	YSES	TRATION	D. MASS	(I) CONCEN-	[2] MASS	ANAL- YSES		
GC/MS FRACTION	– PES	TICID	ES (col	ntinued)											
17P. Heptachlor Epoxide (1024-57-3)		_													
18P. PC8-1242 (53469-21-9)															
19P. PCB-1254 (11097-69-1)									· · · · · · · · · · · · · · · · · · ·						
20P. PCB-1221 (11104-28-2)					<u> </u>										
21P. PCB-1232 (11141-16-5)							·····							,	
22P. PC8-1248 (12672-29-6)														<u> </u>	
23P. PC8-1260 (11096-82-5)															
24P. PCB-1016 (12674-11-2)															
25P. Toxaphene (8001-35-2)															

PAGE V-9

EPA	I.D.	NUM	BER	(copy	from	Item	Γ	71	form	D

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Please print or type in the unshaded areas only.

гонн Арргочео. ОМВ No. 2040-0086 Approvel expires 7-31-88

	\$	EP/		EXISTIN	G MANU	U. APPLICA FACTURII	S. ENVIRONME TION FOR PERI NG, COMMERI Consolida	NTAL PROTEC MIT TO DISCH CIAL, MININ( Stad Permits Pi	TION AGENCY ARGE WASTEWATER AND SILVICULTU	RAL OPERATIC	ONS
DES	I FALL L	OCATION			<		Consonida				
For eec	h outfa	II, list the la	titude and	longitude o	f its locatio	n to the nea	rest 15 seconds a	nd the name of	the receiving water.		
NUM	FALL		LATITU		c	LONGITU			D. RECEIVING WATE	R (name)	
(its	<u>۷</u>	1. <b>926</b> .	2. 00110.	3. SEC.	1. DES.	8. MIN.	3. SEC.				
					L		<u> </u>				
	:										
					<u> </u>	-	++			· <u>··</u> ·····	
				+	<u> </u>	_	++				
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				1	<u> </u>						
Attac and t flows picto For e coolie	th a line reatmen betwee rial desc lech ou ng wate	e drawing s nt units labe en intakes, cription of t tfall, provic er, and storr i sheat if n	howing the bled to con- operations he nature a le a descrip m water ru	e water flo respond to s, treatment and amount iption of: ( inoff; (2) T	w through the more of units, end of eny sou 1) All oper he average	the facility. istailed desc l outfalls. If rces of water ations contri flow contrib	Indicate sources riptions in Item a water balance r and any collecti libuting wastewat buted by each op	of intake wate B. Construct a v cannot be det on or treatment er to the effluer eration; and (3)	r, operations contributin water balance on the line ermined <i>(e.g., for certain</i> measures. nt, including process was The treatment received	g wastewater to th drawing by show mining activities) tewater, sanitary w by the wastewater	e effluent, ing average , provide a wastewater, r. Continue
01 80		2.	OPERATI	ON(5) CO		IG FLOW			3. TREATME	NT	
LLNO	<u> </u>	a, O	PERATIO	N (list)	1	D. AVER	AGE FLOW		DESCRIPTION	D. LIST CO	DES FRO
						Inclut	ie units)	·····			T
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TWES	(complete the fo	ovine fr	e any ot sbie)	une discharge	ns described in	Items II-A or	B intermitter	t or sessonal? to Section III.	, – ,		
<u> </u>					1 FPE/	VIENCY	1		4.51.0W	• • • • • • • • •	
0			<b>h h h h</b>				S. FLOI	RATE	b. TOTAL	VOLUME	I
NUMBER	CONTRI	BUTING	DN(S) 5 FLQ\	N	PER WEEK	D. MONTHS	· (in )	nød) 1	(specify u	ith units)	C DUI
(list)		(list)			(specify average)	(specify average)	I. LONG TERM AVERAGE	2. MAXIMUM DAILY	1. LONG TERM Average	2, MAXIMUM DAILY	(in day
I. PRODUCTION											
A. Does an effluen	t guideline limita (complete Item I	ion pron	nuigated	by EPA und	er Section 304	of the Clean	Water Act ap	oly to your fa	cility?		
B. Are the limiteti	ions in the annies	ole affin	ent quid	eline axprass	d in terms of	production (o	r other meer	m of onemtio	n17	• •	
TES	(complete Item I	-C)				production (b)	NO (80	to Section IV)	** <b>/ 1</b>		
C. If you answere used in the ap	d "yes" to Item II plicable effluent	-B, list th uideline	ne quant a, and in	tity which rep idicate the af	presents an ac fected outfall	tual measure s.	ment of your	level of produ	ction, express	ed in the term	is and uni
			1. /	VERAGE DA	NLY PRODUC	TION				2 488	ECTED
. QUANTITY PER	DAY D. UNIT	-	WRE		C. 075	RATION, PRODU	JCT, MATERIAL	., ETC.		OUTF.	ALLS
A. Are you now re water treatmen but is not limit or loan conditio	equired by any F t equipment or p ed to, permit cor ms.	deral, S actices c ditions, I	tate or I or any o idminist	ocal authorit ther environ rative or enfo (complete the	y to meet any mental program procement order following tot	implementati ns which may rs, enforcemen rle)	ion schedule f affect the d nt compliance	or the constru ischarges desc schedule lette to Item IV-B)	uction, upgradi ribed in this ag ers, stipulation	ng or operatio oplication? Th s, court order	on of wast his include is, and gra
IDENTIFICATIO	N OF CONDITIO	4, <u>2,</u> 8, HO,	AFFEC			J. 3R	IEF DESCRI	PTION OF PR	OJECT	A. FIN PLIAN A.RE:	AL COM
											JACTA

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

Form Approved. OMB No. 2040-0086 Approval expires 7-31-88

# CONTINUED FROM PAGE 2

V. INTAKE AND EFFLUENT CH	ARACTERISTICS		
A, B, & C: See instructions bef NOTE: Tables V-A	ore proceeding — Complete one set of tables f , V-B, and V-C are included on separate sheets	or sech outfall — Annotate the outfal numbered V-1 through V-9.	I number in the space provided.
D. Use the space below to list discharged from any outfall possession,	eny of the pollutents listed in Table 2o-3 of . For every pollutent you list, briefly describ	the instructions, which you know or i te the reasons you believe it to be pr	have reason to believe is discharged or may be resent and report any analytical data in your
1. POLLUTANT	2. SOURCE	1. POLLUTANT	2. SOURCE
VI. POTENTIAL DISCHARGES	NOT COVERED BY ANALYSIS		we be intermediate as first and on a
byproduct?		andri you currentiy use of menursett	are es an intermediate of imal product of
	YES (list all such pollutants below)	NO (so to	) item VI-B)

# VII. BIOLOGICAL TOXICITY TESTING DATA

Do you have any knowledge or reason to believe that any biological test for acute or chronic toxicity has been made on any of your discharges or on a receiving water in relation to your discharge within the last 3 years?

**VES** (identify the test(s) and describe their purposes below)

NO (go to Section VIII)

VIIICONTRACT ANALYSIS INFORMATION			
Were any of the analyses reported in item V per VES (list the name, ad analyzed by, each	ormed by a contract isboratory or consulting firm? dress, and telephone number of, and pollutants such isboratory or firm below)	NO (go to Bec	tion IX)
A. NAME	B. ADDRESS	C. TELEPHONE (area code & no.)	D. POLLUTANTS ANALYZED
IX. CERTIFICATION			ಕು ಅಂಗಿಕ್ಕಾರ್ ಕ್ರೈಂಗಿಕೊಂಡಿದ ಸಂಗ್ರಹಿಸಿದ್ದು ಗಿರ್ಕಿಂಗಿಕೊಂಡಿದ
i certify under peneity of law that this document a assure that qualified personnel properly gather ar those persons directly responsible for gathering th I am aware that there are significant penalties f	and all attachments were prepared under my directi of evaluate the information submitted. Based on my i e information, the information submitted is, to the be for submitting false information, including the poss	ion or supervision in acc inquiry of the person or p st of my knowledge and L ibility of fine and impris	ordance with a system designed to ersons who manage the system or elief, true, accurate, and complete. onment for knowing violations.
A. NAME & OFFICIAL TITLE (type or print)	<u></u>	B. PHONE NO	D. (area code & no.)
C. SIGNATURE		D. DATE SIG	NED

PLEASE PRINT OR TYPE IN THE UNSHADED AREAS ONLY. You may report some or all of this information on separate sheets (use the same format) instead of completing these pages. SEE INSTRUCTIONS.

EPAI.D. NUMBER (copy from Item 1 of Form 1)

Form Approved. DMB No 2000-0059 Approval expires 12-31-85 OUTFALL NO V. INTAKE AND EFFLUENT CHARACTERISTICS (continued from page 3 of Form 2-C) PART A - You must provide the results of at least one analysis for every pollutant in this table. Complete one table for each outfall. See instructions for additional details. 3. UNITS (specify if blank) 4. INTAKE (optional) 2. EFFLUENT CLONG TERM AVRG. VALUE A LONG TERM b. MAXIMUM 30 DAY VALUE 1. POLLUTANT 8. MAXIMUM DAILY VALUE b. NO. OF U. NO. OF a. CONCENb. MASS ANALYSES (I) (1) 6 N 1 B (1) - (i) - (i) ANALYSES (2) MASS (2) MASS TRATION (2) MASS (2) MASS a Biochemical Oxygen Demand (BOD) b. Chemical Oxygen Demand (COD) Total Organic Carbon (TOC) d Total Suspended Solids (TSS) e Ammonia (us N) VALUE VALUE VALUE VALUE f. Flow VALUE VALUE VALUE VALUL g. Temperature °C (a inter) VALUE VALUE VALUE VALUE h. Temperature °C (summer) MAXIMUM MINIMUM MAXIMUM MINIMUM STANDARD UNITS . рн Mark "X" in column 2-a for each pollutant you know or have reason to believe is present. Mark "X" in column 2-b for each pollutant you believe to be absent. If you mark column 2 a for any pollutant PART B which is limited either directly, or indirectly but expressly, in an effluent limitations guideline, you must provide the results of at least one analysis for that pollutant. For other pollutants for which you mark column 2a, you must provide quantitative data or an explanation of their presence in your discharge. Complete one table for each outfall. See the instructions for additional details and requirements. 4. UNITS 5. INTAKE (optional) 3. EFFLUENT 1. POLLUT-ANT AND 2. MARK 'X a LONG TERM b. MAXIMUM 30 DAY VALUE C.LONG TERM AVRG. VALUI (if available) a. HF D. HE NO. OF a, MAXIMUM DAILY VALUE d NO. OF LONCEN а CAS NO. ANAL-YSES b. MASS ANAL (I) CONCENTRATION PRE-AB-CONCENTRATIO (1) (1) RATION (2) MASS YSES (if available) (2) MASS (2) MASS (2) MASS Bromide (24959-67-9) b. Chlorine, Total Residual c. Color d. Fecal Coliform e, Fluoride (16984-48-8) f. Nitrate-Nitrite (as N)

EPA Form 3510-2C (Rev. 2-85)

CONTINUE ON REVERSE

# ITEM V-B CONTINUED FROM FRONT

TIEM V-B CON	TINUE	UFRU	MFKUNI											
1. POLLUT-	2. MA	RK 'X'			3.	EFFLUENT				4. UI	TIS	5. INT	AKE (optional)	
ANT AND	8. sz-	b.se-	8. MAXIMUM E	AILY VALUE	b. MAXIMUM 3	O DAY VALUE	C.LONG TERM	AVRG. VALUE	d. NO. OF			& LONG	LTERM.	. NO. OF
(if available)	SENT	AD- SENT	(+)	(2) MASS		(2) MASS	()	(2) MASS	ANAL- YSES	TRATION	b. MASS	[1]	(2) MANS	ANAL-
g. Nitrogen, Total Organic (as N)												CONCENTRATION		
h. Oil and Gresse				· · · · · · · ·									······································	
i, Phosphorus (as P), Total (7723-14-0)														
j. Redioactivity														†
(1) Alpha, Total													· · · · · · · · · · · · · · · · · · ·	
(2) Beta, Total														
(3) Radium, Total														
(4) Radium 226, Total														
k. Sulfate (at 504) (14808-79-8)														
i. Suificie (de 3)														
m, Sulfite (ar SO3) (14265-45-3)														
n, Surfactants														
o. Aluminum, Total (7429-90-5)														
p. Barlum, Total (7440-39-3)														
q. Boron, Total (7440-42-8)														
r. Cobelt, Total (7440-48-4)														
s. iron, Total (7439-89-6)							·							
t. Magnesium, Total (7439-95-4)														
u. Molybdenum, Total (7439-98-7)														
v. Manganese, Total (7439-96-5)														
w. Tin, Total (7440-31-5)														
x. Titenium, Total (7440-32-6)														

					EPA 1.0.	NUMBER (COPY (	rom Item 1 of F	orm 1) OUTPAL	LNUMBER	1		Forn OME Appi	n Approved. 3 No. 2040-008 rovel expires 7-3	5 31-88	
CONTINUED FRO PART C - If you 2-a fo weste believ of at I dinitra conce be dis	M PAG are a pi r all su water e is abi east or opheno ntratio charge	E 3 OF ch GC/ putfalls ient. If y ie analy il, or 2- ns of 10 d. Note	FORM industi /MS fra you ma you ma you ma you ma you ma hyou ma hyou ma hyou ma hyou ma hyou ma you ma you ma you ma you ma you ma hyou hyou ma hyou m	4 2-C ry and this outfall actions that appli bonrequired GC/ rk column 2s for i r that pollutant if I-4, 6 dinitropher or greater. Other here are 7 pages	I contains proces y to your industr <i>MS fractions</i> ), m any pollutant, yo you know or ha nol, you must pr wise, for pollutai to this part; plea	es wastewater, re ry and for ALL tox bark "X" in colum umust provide th ve reason to belin ovide the results nis for which you ase review each o	fer to Table 2c-2 ic metals, cyani n 2-b for each p e results of at lea eve it will be dia of at least one t mark column 2b carefully. Compl	In the instruction des, and total phe bilutant you know sat one analysis for charged in conce malysis for each you must either ate one table <i>fall</i>	ns to determine v enols. If you are iv vor have reason or that pollutant. intrations of 10 of these pollutar submit at least o 7 pages/ for ead	which of th not require to believe If you mark opb or grea nts which ne analysis ch outfall.	e GC/MS fra ad to mark col is present. M k column 2b fc ater. If you ma you know or h s or briefly des See instruction	ctions you mi umn 2-a /sec ark "X" in co or any polluta ark column 2 her column 2 h	ust test for. Ma condery indus: lumn 2-c for e nt, you must p b for acrolein, to believe that sons the pollut onal details at	ark "X" in colu tries, nonpro ach pollutani rovide the rei , acrylonitrile ; you discharg tant is expect nd requireme	umn cess you suits , 2,4 ye in ed to ints.
1. POLLUTANT	2.	MARK	·x·			3, 5	FFLUENT				4. UI	NITS	5. IN1	TAKE (optio	nalj
AND CAS NUMBER		b.ee-	C. 82-	. MAXIMUM C	AILY VALUE	b. MAXIMUM 3	able)	C.LONG TERM	AVEG. VALUE	d NO.OF	. CONCEN-	L	AVERAG	TERM	b. NO.OF
(if available)	-	. EAT	SENT	(I) CONCENTRATION	(2) MASS	(1) CONCENTRATION	[2] MASS	(+) CONCENTRATION	{2} MASS	YSES	TRATION	0. 14 4 3 3	(1) CONCEN- TRATION	{2} MASS	YSES
METALS, CYANID	E, ANI	TOT C	AL PHE	ENOLS											
1M. Antimony, Total (7440-36-0)															
2M. Arsenic, Total (7440-38-2)															
3M. Beryllium, Total, 7440-41-7)															
4M. Cadmium, Total (7440-43-9)															
5M. Chromium, Total (7440-47-3)															
6M. Copper, Total (7440-50-8)	-														
7M. Land, Total (7439-92-1)															
8M. Mercury, Total (7439-97-6)															
9M. Nickel, Total (7440-02-0)															
10M. Selenium, Totel (7782-49-2)															
11M. Silver, Totel (7440-22-4)															
12M. Thellium, Total (7440-28-0)															
13M. Zinc, Total (7440-66-6)															
14M. Cyanide, Totai (57-12-5)															
16M. Phenois, Total															
DIOXIN															
2,3,7,8 Tetra- chlorodibenzo-P Dioxin (1764-01-6)				DESCRIBE RES	ULTS										
			·												

1. POLLUTANT	2.	MARK	· · <del>x</del> · · · · ·	{		3.	EFFLUENT				4. U	NITS	5. IN	TAKE (optic	mai)
AND CAS NUMBER	-	b	C	. MAXIMUM		D. MAXIMUM J	10 DAY VALUE	C.LONG TERM	allable)	d NO.OF	. CONCEN		A LON	G TERM	b. NO. OF
(if available)	8018-	SENT	SENT	CONCENTRATION	(2)	(1) CONCENTRATION	(2) MASS	(I) CONCENTRATION	(2) MASS	YSES	TRATION	D. MASS	(I) CONCENT	(2) MASS	YSES
GC/MS FRACTION	i - VO	LATIL	E CON	POUNDS					<u> </u>	<u> </u>					
1V. Acrolein (107-02-8)			$\square$												
2V. Acrylonitrile (107-13-1)				1											
3V. Benzene (71-43-2)				,											
4V. Bis (Chloro- methyl) Ether (542-88-1)															
5V. Bromoform (75-25-2)				!											
6V. Carbon Tetrachloride (56-23-5)															
7V. Chiorobenzene (108-90-7)															
8V. Chlorodi- bromomethane (124-48-1)															
9V. Chloroethane (75-00-3)															
10V. 2-Chloro- ethylvinyl Ether (110-75-8)															
11V. Chloroform (67 <del>-66</del> -3)															
12V. Dichloro- bromomethene (75-27-4)															
13V. Dichloro- difluoromethane (75-71-8)				[]											
14V. 1,1-Dichloro- ethane (75-34-3)															
15V. 1,2-Dichloro- ethene (107-06-2)			<u> </u>	'											
16V. 1,1-Dichloro- ethylene (75-35-4)															
17V. 1,2-Dichloro- propane (78-87-5)				′											
18V. 1,3-Dichloro- propylene (542-75-8)															
19V. Ethylbenzene (100-41-4)															
20V. Methyl Bramide (74-83-9)															
21V, Methyl Chloride (74-87-3)				, · · · · · · · · · · · · · · · · · · ·				· ·					]		

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

Form Approved. OMB No. 2040-0086 Approvel expires 7-31-8

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CONTINUED FROM PAGE V-4										Approval expires 7-31-88						
1. POLLUTANT AND CAS NUMBER	2. MARK 'X'			3. EFFLUENT							4. UNITS B. INTAKE (optional)					
		b	C	8. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE		C.LONG TERM AVRG. VALUE		d NO.OF	- CONCEN		A LONG TERM		b. NO. OF	
(if available)	AE.	PRE-	AB- BENT		(2) MASS	(1)	[1] MA33	(1)	(2) MASS	ANAL- VSES	TRATION	b. MASS	(I) CONCEN-	(1) MASS	ANAL- YSES	
GC/MS FRACTION	- VO	LATIL	E COM	POUNDS (contin	ued)											
22V, Methylene Chloride (75-09-2)												· · · · · · · · · · · · · · · · · · ·				
23V. 1,1,2,2-Tetra- chloroethane (79-34-5)																
24V. Tetrachioro- ethylene (127-18-4)																
25V. Toluene (108-88-3)												1				
26V. 1,2-Trans- Dichloroethylene (156-60-5)																
27V. 1,1,1-Tri- chlorosthane (71-55-6)																
28V. 1,1,2-Tri- chioroethane (79-00-5)																
29V. Trichloro- ethylene (79-01-6)																
30V, Trichloro- fluoromethane (75-69-4)																
31V. Vinyl Chloride (75-01-4)																
GC/MS FRACTION	- ACI	D CON	POUN	IDS .												
1A. 2-Chiorophenol (95-57-8)																
2A. 2,4-Dichloro- phenol (120-83-2)																
3A. 2,4-Dimethyl- phenol (105-67-9)																
4A. 4,6-Dinitro-O- Cresol (534-52-1)																
5A. 2,4-Dinitro- phenol (51-28-5)																
6A. 2-Nitrophenol (88-75-5)																
7A, 4-Nitrophenol (100-02-7)																
8A. P-Chloro-M- Cresol (59-50-7)																
9A. Pentachloro- phenol (87-86-5)																
10A. Phenol (108-95-2)																
11A. 2,4,6-Tri- chlorophenol (88-06-2)																

CONTINUED FROM THE FRONT																
1. POLLUTANT AND CAS NUMBER (if available)	2.	MARK	.x.	3. EFFLUENT								4. UNITS		5. INTAKE (optional)		
		b.er-	C	8. MAXIMUM DAILY VALUE		D. MAXIMUM 3	b. MAXIMUM 30 DAY VALUE (1/ available)		C.LONG TERM AVRG. VALUE		a. CONCEN-		AVERAG	3 TERM	b. NO. OF	
	-	SENT	VENT	CONCENTRATION	{z} ====	(I) CONCENTRATION	(2) MA85	(I) CONCENTRATION	{z} mass	VSES	TRATION		(1) CONCEN- TRATION	[1] MA88	VSES	
GC/MS FRACTION - BASE/NEUTRAL COMPOUNDS														· · · · · ·		
18. Acenaphthena (83-32-9)																
2B. Acenaphtylene (208-96-8)																
38. Anthracene (120-12-7)																
48. Benzidine (92-87-5)																
58. Benzo (a) Anthracene (56-55-3)				1									<b></b>			
6B. Benzo <i>(a)</i> Pyrene (50-32-8)																
78. 3,4-Benzo- fluoranthene (205-99-2)																
88. Benzo (shi) Perviene (191-24-2)																
9B. Benzo (k) Fluoranthene (207-08-9)																
108. Bis (2-Chloro- ethoxy) Methane (111-91-1)																
118. Bis (2-Chloro- ethyl) Ether (111-44-4)																
128. Bis (2-Chloreise- propyl) Ether (102-80-1)		]														
13B. Bis (2-Ethyl- hexyl) Phthalate (117-81-7)																
148. 4-Bromo- phenyt Phenyl Ether (101-55-3)																
158. Butyl Benzyl Phthalate (85-68-7																
168. 2-Chloro- naphthalene (91-58-7)										<u> </u>					<u> </u>	
17B. 4-Chioro- phenyl Phenyl Ether (7005-72-3)																
188. Chrysene (218-01-9)																
198. Dibenzo (a,h) Anthracene (53-70-3)	1															
20B. 1,2-Dichloro- benzene (95-50-1)	·												 			
21B. 1,3-Dichloro benzene (541-73-1																
EPA I.D. NUMBER (copy from Item 1 of Form 1) OUTFALL NUMBER

Form Approved. OMB No. 2040-0086 Approval expires 7-31-88

CONTINUED FRO	M PAG	I PAGE V-8						Approvel expires 7-31-88							
1. POLLUTANT	2.	MARK	' <b>X</b> '			3.	EFFLUENT				4. UN	ITS	5. INT	AKE (optio	nal)
AND CAS NUMBER	A TE ST		C	. MAXIMUM	DAILY VALU	b. MAXIMUM I	O DAY VALUE	C.LONG TERM	AVRG. VALUE	L NO.OF	. CONCEN-	b. MASS	AVERAG	TERM	NO.OF
(if available)	euin KO	SENT		(I) CONCLATRATION	(2) MASS	[1] CONCENTRATION	(2) MASS	(1) CONCENTRATION	[2] MASS	YSES	TRATION		TRATION	(2) MASS	YSES
GC/MS FRACTION	- BA	SE/NE	UTRAL	COMPOUNDS	(continued)										
228. 1,4-Dichloro- benzene (106-46-7)															
23B. 3,3'-Dichloro- benzidine (91-94-1)															
248. Diethyl Phthalate (84-66-2)															
258. Dimethyl Phthelate (131-11-3)															
268. Di-N-Butyl Phthalate (84-74-2)															
278. 2,4-Dinitro- toluene (121-14-2)															
288, 2,6-Dinitro- toluene (606-20-2)															
295. Di-N-Octyl Phthalate (117-84-0)															
308. 1,2-Diphenyi- hydrazine (as Azo- benzene) (122-86-7)															
318. Fluorenthene (206-44-0)															
32B, Fluorene (86-73-7)															
338. Hexachlorobenzene (118-74-1)															
348. Hexa- chlorobutadiene (87-68-3)															
35B. Hexachioro- cyclopentadiene (77-47-4)															-
368. Hexachioro- ethane (67-72-1)															
37B, Indeno (1,2,3-cd) Pyrene (193-39-5)															
388. Isophorone (78-59-1)															
398, Naphthalene (91-20-3)															
40B. Nitrobenzene (98-95-3)															
41B. N-Nitro- sodimethylamine (62-75-9)															
42B. N-Nitrosodi- N-Propylamine															

6

CONTINUED FROM	M THE	FRON	T												
1. POLLUTANT	2.	MARK	'X'			3.	EFFLUENT				4. UI	NITS	5. IN1	AKE (optio	inal)
AND CAS NUMBER	ETF ST	b		a. MAXIMUM I	DAILY VALUE	b. MAXIMUM 1	ODAY VALUE	C.LONG TERM	AVRG. VALUE	d NO OF	. CONCEN-	b MASS	B. LONG	TERM	b. NO. OF
(if available)	ALC	SENT	SENT	(+) CONCLNTRATION	(2) MASS	(I) CONCENTRATION	(7) MASS	(I) CUNCENTRATION	{2} MASE	YSES	TRATION		(I) CONCEN-	{7} ****	VSES
GC/MS FRACTION	I BA	SE/NE	UTRA	L COMPOUNDS	(continued)										
43B. N-Nitro- sodiphenylamine (86-30-6)															
44B. Phenanthrene (85-01-8)															
458. Pyrene (129-00-0)															
468. 1,2,4 - Tri- chlorobenzene (120-82-1)															
GC/MS FRACTION	I - PES	TICID	ES			1									
1P. Aldrin (309-00-2)						1									
2P. Q-BHC (319-84-6)															
зр. β-внс (319-85-7)															
4Р. 7-ВНС (58-89-9)															
5Р. б-внс (319-86-8)															
6P. Chlordane (57-74-9)															
7P. 4,4'-DDT (50-29-3)															
8P. 4,4'-DDE (72-85-9)															
9P, 4,4'-DDD (72-54-8)															
10P. Dieldrin (60-57-1)															
11P. Q-Endosulfan (115-29-7)															
12P. β-Endosulfan (115-29-7)															
13P. Endosulfan Sulfate (1031-07-8)															
14P, Endrin (72-20-8)															
15P. Endrin Aldehyde (7421-93-4)						1				1					
16P. Heptachlor (76-44-8)															

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

Form Approved. OMB No. 2040-0086 Approvel expires 7-31-88

CONTINUED FROM	A PAGI	E V-8										Approval	expires 7-31-80	<b>}</b>	
I. POLLUTANT	2.	MARK	'X'			3. (	EFFLUENT				4. UI	NITS	5. IN1	AKE (optic	mai)
AND CAS NUMBER	ATEST- ING RL- QUIR-	b. ec-	C. 88-	A. MAXIMUM D	ALLY VALUE	b. MAXIMUM 3	able)	C.LONG TERM	AVRG. VALUE	d NO.OF	S. CONCEN-	b MASS	A LONG	TERM	D. NO.OF
(if available)		RL. QUIR. ED	SENT	SENT	(I) CONCENTRATION	(2) MASS	(I) CONCENTRATION	(2) MASS	(I) CONCENTRATION	(2) MASS	VSES	TRATION		(I) CONCEN- TRATION	{2} MASS
GC/MS FRACTION - PESTICIDES (continued)															
17P. Heptachior Epoxide (1024-57-3)					- <u></u>										
18P. PC8-1242 (53469-21-9)															
19P. PCB-1254 (11097-69-1)															
20P. PCB-1221 (11104-28-2)															
21P. PCB-1232 (11141-16-5)															
22P. PC8-1248 (12672-29-6)								· · · · ·							
23P. PCB-1260 (11096-82-5)															
24P. PCB-1016 (12674-11-2)															
25P. Toxaphene (8001-35-2)															

PAGE V-9

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

Permits Division

# EPA Application Form 2D

## New Sources and New Dischargers:

Application for Permit to Discharge Process Wastewater

## 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). How-ever, 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 "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 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 pollutanto 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
ppmparts per million	lbspounds
mg/1milligrams per liter	tontons (English tons)
ppb parts per billion	mgmilligrams
Ug/1 micrograms per liter	ggrams
kgkilograms	T
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

ngineering study1
ctual data from pilot plants1
stimates from other engineering studies
ata from other similar plants
est professional estimates4
thersspecify 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:

- 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-l);
- C. 2-(2,4,5-trichlorophenoxy) ethyl 2,2dichloropropionate (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 fit one of the follow-ing definitions:

- 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 guarter 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.
  - 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 secondquarter 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—B ......Dialysis
- 1–C ......Diatomaceous Earth Filtration
- 1-D.....Distillation
- 1-E .....Electrodialysis
- 1—F ..... Evaporation
- 1-G .....Flocculation
- 1-H .....Flotation
- 1—1.....Foam Fractionation
- 1-J .....Freezing
- 1—K .....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 (Hyperfiltration)
- 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—B .....Chemical Oxidation
- 2-C ..... Chemical Precipitation
- 2-D....Coagulation
- 2-E ..... Dechlorination
- 2—F .....Disinfection (Chlorine)

- 2-G.....Disinfection (Ozone)
- 2-H ..... Disinfection (Other)
- 2-I....Electrochemical Treatment
- 2—J .....lon Exchange
- 2-K .....Neutralization
- 2-L .....Reduction

## **BIOLOGICAL TREATMENT PROCESSES**

- 3-A ..... Activated Sludge
- 3—B .....Aerated Lagoons
- 3-C .....Anaerobic Treatment
- 3-D .....Nitrification-Denitrification

- 3—E ...... Preaeration 3—F ...... Spray Irrigation/Land Application 3—G ...... Stabilization Ponds
- 3-H ..... Trickling Filtration

## **OTHER PROCESSES**

- 4----A ...... Discharge to Surface Water
- 4-B ..... Ocean Discharge Through Outfall

4—C ......Reuse/Recycle of Treated Effluent 4—D .....Underground Injection

## SLUDGE TREATMENT AND DISPOSAL PROCESSES

- 5—A ..... Aerobic Digestion
- 5-B ..... Anaerobic Digestion
- 5-C .....Belt Filtration
- 5-D ..... Centrifugation
- 5-E ..... Chemical Conditioning
- 5-F .....Chlorine Treatment
- 5-G.....Composting
- 5—H ..... Drying Beds
- 5-1....Elutriation
- 5-J .....Flotation Thickening
- 5-K .....Freezing 5-L .....Gravity Thickening

- 5—M ..... Heat Drying
- 5-N ..... Heat Treatment
- 5–0....Incineration
- 5-P ..... Land Application
- 5-Q....Landfill
- 5-R ..... Pressure Filtration
- 5-S ..... Pyrolysis
- 5-T .....Sludge Lagoons
- 5-U ..... Vacuum Filtration
- 5-V .....Vibration
- 5-W .....Wet Oxidation

## **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

## 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

- 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 Manganese, Total Tin, Total Titanium, Total
- Arsenic, Total Cadmium, Total Copper, Total Mercury, Total Selenium, Total Thallium, Total Cyanide, Total

Vinyl Chloride Acrylonitirle Bromoform Chlorobenzene Chloroethane Chloroform 1,1-Dichloroethane 1,3-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) Pyreno 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-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

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

## TOXIC POLLUTANT

#### Asbestos

## **HAZARDOUS SUBSTANCES**

Aceltaldehyde Allyl alcohol Allyl chloride Amyl acetate Aniline **Benzonitrile 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 **Pvrethrins** 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 Acetic acid Acetic anhydride Acetone cyanohydrin Acetyl bromide Acetyl chloride Acrolein Acrylonitrile Adipic acid Aldrin Allyl alcohol AlvII chloride Aluminum sulfate Ammmonia Ammonium acetate Ammonium benzoate Ammonium bicarbonate Ammonium bichromate Ammonium bifluoride Ammonium bisulfite Ammonium carbamate Ammonium carbonate Ammonium chloride Ammonium chromate Ammonium citrate Ammonium flouroborate Ammonium fluoride Ammonium hydroxide Ammonium oxalate Ammonium silicofluoride Ammonium sulfamate Ammonium sulfide Ammonium sulfite Ammonium tartrate Ammonium thiocyanate Ammonium thiosulfate Amyl acetate Aniline Antimony pentachloride Antimony potassium tartrate Antimony tribromide Antimony trichloride Antimony trifluoride Antimony trioxide Arsenic disulfide Arsenic trichloride Arsenic trioxide Arsenic trisulfide Barium cvanide Benzene **Benzoic** acid **Benzonitrite** Benzoyl chloride **Benzyl** chloride Beryllium chloride **Beryllium fluoride Beryllium nitrate Butylacetate** n-Butylphthalate

**Butylamine Butyric acid** Cadmium acetate Cadmium bromide Cadmium chloride Calcium arsenate Calcium arsenite Calcium carbide Calcium chromate Calcium cyanide Calcium dodecylbenzenesulfonate Calcium hypochlorite Captan Carbarvi Carbofuran Carbon disulfide Carbon tetrachloride Chlordane Chlorine Chlorobenzene Chloroform Chloropyrifos Chlorosulfonic acid Chromic acetate Chromic acid Chromic sulfate Chromous chloride **Cobaltous bromide Cobaltous formate Cobaltous sulfamate** Coumaphos Cresol Crotonaldehvde Cupric acetate Cupric acetoarsenite **Cupric chloride** Cupric nitrate Cupric oxalate Cupric sulfate Cupric sulfate ammoniated **Cupric tartrate** Cyanogen chloride Cyclohexane 2.4-D acid (2,4-Dichlorophenoxyacetic acid) 2,4-D esters (2,4-Dichlorophenoxyacetic acid esters) DDT Diazinon Dicamba Dichlobenil Dichlone Dichlorobenzene Dichloropropane Dichloropropene Dichloropropene-Dichloropropane mix 2.2-Dichloropropionic acid

Dichlorvos Dieldrin Diethylamine Dimethylamine Dinitrobenzene Dinitrophenol Dinitrotoluene Diguat Disulfoton Diuron Dodecylbenzesulfonic acid Endosulfan Endrin Epichlorohydrin Ethion Ethylbenzene Ethylenediamine Ethylene dibromide Ethylene dichloride Ethylene diaminetetracetic acid (EDTA) Ferric ammonium citrate Ferric ammonium exalate Ferric chloride Ferric fluoride Ferric nitrate Ferric sulfate Ferrous chloride Ferrous sulfate Formaldehyde Formic acid Fumaric acid **Furfural** Guthion Heptachlor Hexachlorocyclopentadiene Hydrochloric acid Hydrofluoric acid Hydrogen cyanide Hydrogen sulfide Isoprene Isopropanolamine dodecvlbenzenesulfonate Kelthane Kepone Lead acetate Lead arsenate Lead chloride Lead fluoborate Lead fluorite Lead iodide Lead nitrate Lead stearate Lead sulfate Lead sulfide Lead thiocvanate Lindane Lithium chromate Malathion

## HAZARDOUS SUBSTANCES (Continued)

Maleic acid Maleic anhydride Mercaptodimethur Mercuric cyanide Mercuric nitrate Mercuric sulfate Mercuric thiocyanate Mercurous nitrate Methoxychlor Methyl mercaptan Methyl methacrylate Methyl parathion Mevinphos Mexacarbate Monoethylamine Monomethylamine Naled Naphthalene Naphthenic acid Nickel ammonium sulfate Nickel chloride Nickel hydroxide Nickel nitrate Nickel sulfate Nitric acid Nitrobenezene Nitrogen dioxide Nitrophenil Nitrotoluene Paraformaldehyde Parathion Pentachlorophenol Phenol Phosoene Phosphoric acid **Phosphorus** Phosphorus oxychloride Phosphorus pentasulfide Phosphorus trichloride Polychlorinated biphenyls (PCB) Potassium arsenate Potassium arsenite Potassium bichromate Potassium cvanide Potassium hydroxide Potassium permanganate Propargite Propionic acid Propionic anhydride **Propylene oxide Pyrethrins** Quinoline Resorcinol Selenium oxide Silver nitrate Sodium Sodium arsenate Sodium arsenite Sodium bichromate

Sodium bifluoride Sodium bisulfite Sodium chromate Sodium cyanide Sodium dodecylbenzenesulfonate Sodium fluoride Sodium hydrosulfide Sodium hydroxide Sodium hypochlorite Sodium methylate Sodium nitrate Sodium phospate (dibasic) Sodium phosphate (tribasic) Sodium selenite Strontium chromate Strychnine Styrene Sulfuric acid Sulfur monochloride 2,4,5-T acid (2,4,5-Trichlorophenoxy acetic acid) 2.4.5-Tamines (2,4,5-Trichlorophenoxy acetic acid amines) 2,4,5-T esters (2,4,5-Trichlorophenoxy acetic acid esters) 2,4,5-T salts (2,4,5-Trichlorophenoxy acetic acid salts) 2.4.5-TP acid (2,4,5-Trichlorophenoxy propanoic acid) 2,4,5-TP acid esters (2,4,5-Trichlorophenoxy propanoic acid esters) **TDE** (Tetrachlorodiphenyl ethane) Tetraethyl lead Tetraethyl pyrophosphate Thallium sulfate Toluene Toxaphene Trichlorofon Trichloroethylene **Trichlorophenol** Triethanolamine dodecylbenzenesulfonate Triethylamine Trimethylamine Uranyl acetate **Uranyl nitrate** Vanadium pentoxide Vanadyl sulfate Vinvl acetate Vinylidene chloride **Xylene Xylenol** Zinc acetate

Zinc ammonium chloride Zinc borate Zinc bromide Zinc carbonate Zinc chloride Zinc cyanide Zinc fluoride Zinc formate Zinc hydrosulfite Zinc nitrate Zinc phenolsulfonate Zinc phosphide Zinc silicofluoride Zinc sulfate Zirconium nitrate Zirconium potassium fluoride Zirconium sulfate Zirconium tetrachloride

LINE DRAWING



Form Approved OMB No. 2040-0086 Approval Expires 5/31/92

	EPA ID Number /	copy from Item 1 of Form 1)	T
ise type or print in th	e unshaded areas only		
	New : EPA Application for I	Sources and Ne Permit to Disch	ew Dischargers harge Process Wastewat
Jutfall Location			
For each outfall,	list the latitude and longitude and the name of	of the receiving water	
utfall Number	Latitude Longitude Receive	ing Water (name)	
(list)	Deg Min Sec Deg Min Sec	····· ··· ···	
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ischarge Date /V	When do you expect to begin discharging <sup>2</sup>	· · · · · · · · · · · · · · · · · · ·	
lows, Sources o	of Pollution, and Treatment Technologies		
For each ou	ittall, provide a description of (1) All i stewater, sanitary wastewater, coolir	operations contributing	i wastewater to the effluent, includin er runoff: (2) The average flow contrib
uted by eac	ch operation; and (3) The treatment	received by the waste	water. Continue on additional sheet
if necessary	1.		
Outfall	1 Operations Contributing Flow	2. Average Flow	3 Treatment
Number	(list)	(include units)	(Description or List Codes from Table 2D
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		+	
		· · · · · · · · · · · · · · · · · · ·	
		<u> </u>	

Except t seasone	or storm rund <u>al</u> ?	off, leaks, or spi	Ils, will any of	the discharges	described in ite	en III-A be intern	nittent or
L	] Yes (complete	the following table	.) No	(go to item IV)			
	Outfall	ļ	1. Freq	Luency	- Maximum	2. Flow	- Ouratio
	Number		a. Days Per Week (specify average)	D. Months Per Year (specify average)	a Maximum Daily Flow Rate (in mgd)	Total Volume (specify with units)	C. Duration (in daγs)
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Production there is an stual produ rst 3 years	applicable production level, not of operation. If	uction-based efflu design), expressed production is likely	ent guideline or I in the terms and v to vary, you ma	NSPS, for each out d units used in the av also submit alte	fall list the estimat applicable effluen rnative estimates	ed level of productio t guideline or NSPS, (attach a separate s	for each of t heet).
	a Quantity	b Units of					
)					• • • • • • • • • • • •		

f

CONTINUED FROM THE FRONT	EPA ID Number (d	copy from Item 1 of	Form 1)	Outfail Number						
A, and B: These items require you t be discharged from each of your ou be completed in accordance with separate page. Attach additional s	o report estimate Itfalls. Each part the specific inst heets of paper if	ed amounts (both of this item add ructions for tha necessary.	<i>h concen</i> i resses a c it part. Da	<i>tration and mass)</i> of the pollutants to different set of pollutants and should ata for each outfall should be on a						
General Instructions (See table 2). Each part of this item requests you the source of information. Data for the permitting authority. For all ou which you believe will be present of through limitations on an indicato	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)						
	 			· · · · · · · · · · · · · · · · · · ·						
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CONTINUED FROM THE FRONT	EPA ID Number copy from item 1 of Form 1
C. Use the space below to list reason to believe will be dis believe it will be present.	any of the pollutants listed in Table 2D-3 of the instructions which you know or have scharged from any outfall. For every pollutant you list, briefly describe the reasons you
1 Pollutant	2 Reason for Discharge
VI. Engineering Report on Wastewater	Treatment
appropriate box below	a concerning your wastewater treatment, including engineering reports or phot plant studies, check the
Report Available	No Report
B. Provide the name and local production facility with residuction	ation of any existing plant(s) which, to the best of your knowledge, resembles this
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.

#### 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 Litle (type or print)	B. Phone No.
C. Signature	D. Date Signed

nn i				
D		New	Sources and Ne	ew Dischargers
DES		pplication for	Permit to Disch	arge Process Wastewa
fall Location				
or each outfall,	list the latitude an	id longitude, and the name	e of the receiving water	
	Deg Min Sec	Deg Min Sec	eiving Water (name)	
	Deg		• • • • • • • • • • • • • • • • • • •	
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			<u> </u>	
Data (li				·····
Charge Date (*	Vhen aa you exper	st to begin aiscnargingry		
ows, Sources o	of Pollution, and T	reatment Technologies		
if necessary	1. Operation, 2			
Number	Е Орегало	ins Contributing Flow (list)	2. Average riow (include units)	3. Treatment (Description or List Codes from Table 2)
t				
		· · · · · · · · · · · · · · · · · · ·		
- 1				

B Attach operation detailed between certain any coll	a line drawin ins contributio descriptions initakes, oper mining activiti ection or trea	ig showing the ng wastewater in Item III-A. Co rations, treatm ies), provide a p tment measure	e water flow to the effluent onstruct a wate ent units, and o ictorial descrip es.	through the fac t, and treatment er balance on th outfalls. If a wate tion of the natur	cility. Indicate is a units labeled to e line drawing b er balance cann e and amount of	sources of intake o correspond to t by showing avera ot be determined f any sources of w	e water, he more ge flows (e.g., for vater and
C. Except f seasona	or storm rung al?	off, leaks, or spi	ills, will any of	the discharges	described in ite	m III-A be interm	nittent or
L	Yes (complete	the following table		(go to item IV)			
	Outfall		1. Freq	uency	a Maximum	2 Flow	C. Duration
	Number		Per Week (specify average)	Per Year (specify average)	Daily Flow Rate (in mgd)	Total Volume (specify with units)	(in days)
IV. Production	applicable prod	luction-based effli	uent guideline or	NSPS, for each out	fall list the estimat	ted level of productio	on (projection of
first 3 years	of operation. If	production is like	ly to vary, you ma	ay also submit alte	applicable effluen rnative estimates	(attach a separate s	, for each of the sheet).
Year	Per Day	Measure		c. Operatio	on, Product, Material, (	eic (specify)	
						<u> </u>	

CONTINUED FROM THE FRONT	EPA ID Number ic	opy from Item 1 of F	orm 1) Outfail Number	
7. Effluent Characteristics				
A, and B: These items require y be discharged from each of you be completed in accordance w separate page. Attach addition	ou to report estimate ir outfalls. Each part o vith the specific insti val sheets of paper if	d amounts <i>(both</i> of this item addre ructions for that necessary.	<i>concentration and mass)</i> o esses a different set of pollu part. Data for each outfa	f the pollutants to itants and should Il should be on a
General Instructions (See tabl	le 2D-2 for Pollutant.	s)		
Each part of this item requests y the source of information. Data the permitting authority. For a which you believe will be prese through limitations on an indic	you to provide an esti a for all pollutants in ( ill outfalls, data for p ent or are limited dire cator pollutant.	mated daily maxi Group A, for all o ollutants in Gro ctly by an effluer	imum and average for certa utfalls, must be submitted up B should be reported or nt limitations guideline or N	in pollutants and unless waived by hly for pollutants SPS or indirectly
1. Pollutant	2. Maximum Daily Value (include units)	3. Average Daily Value (include units)	4. Source (see ins	tructions)
			<u> </u>	
······				

CONTINUED FROM THE FRONT	EPA ID Number (copy from Item 1 of Form 1)
C. Use the space below to list any c reason to believe will be discharg believe it will be present.	of the pollutants listed in Table 2D-3 of the instructions which you know or have ged from any outfall. For every pollutant you list, briefly describe the reasons you
1. Pollutant	2. Reason for Discharge
	2 Heason for Discharge
VI. Engineering Report on Wastewater Tree	tment
A. If there is any technical evaluation con appropriate box below.	Icerning your wastewater treatment, including engineering reports or pilot plant studies, check the
B. Provide the name and location production facility with respect	i of any existing plant(s) which, to the best of your knowledge, resembles this 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.

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

-

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

Permits Division

€EPA

## Application Form 2E —

## Facilities Which Do Not Discharge Process Wastewater

## Form 2E Instructions

#### Who Must File Form 2E

EPA Form 3510-2E must be completed in conjunction with EPA Form 3510-1 (Form 1). This short form may be used only by operators of facilities which discharge only nonprocess wastewater (process wastewater is water that comes into direct contact with or results from the production or use of any raw material, intermediate product, finished product, byproduct, waste product, or wastewater) which is not regulated by effluent limitations guidelines or new source performance standards. The form is intended primarily for use by dischargers (new or existing) of sanitary wastes and noncontact cooling water. It may not be used for discharges of stormwater runoff or by educational, medical, or commercial chemical laboratories or by publicly owned treatment works (POTW's).

## Where to File Applications

The application forms should be sent to the EPA Regional Office which covers the State in which the facility is located. Form 2E (the short form) must be used only when applying for permits in States where the NPDES permits program is administered by EPA. For facilities located in States which are approved to administer the NPDES permits program, the State environmental agency should be contacted for proper permit application forms and instructions. Information on whether a particular program is administered by EPA or by a State agency can be obtained from your EPA Regional Office. Form 1, Table 1 of the "General Instructions" lists the addresses of EPA Regional Offices and the States within the jurisdiction of each Office.

#### **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 or Form 1. However, 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 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 for New Dischargers and New Sources

Please note that no later than 2 years after commencement of discharge from the proposed facility, you must complete and submit Item IV of this form (NPDES Form 2E). At that time you must test and report actual rather than estimated data for the pollutants or parameters in Item IV, unless waived by the permitting authority.

## **Definitions**

Significant terms used in these instructions and in the form are defined in the Glossary found in the General Instructions accompanying Form 1.

#### item i

Under Part A, list an outfall number. Under Part B, list the latitude and longitude to the nearest 15 seconds for this outfall. Under Part C, list the name of the outfall's receiving water. When there is more than one outfall, you must submit a separate Form 2E (Items I, III, and IV only) for each outfall.

#### Item II (New Dischargers Only)

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

### Item III

In Part A, indicate the general type(s) of wastes to be discharged by placing an "x" in the appropriate box(es). If "other nonprocess wastewater" is marked, it should be identified. If cooling water additives are to be used, they must be listed by name under Part B.

In addition, the composition of the cooling water additives should be listed if this information is available. The composition of cooling water additives may be found on product labels or from manufacturer's data sheets.

### Item IV — Reporting

All pollutant levels must be reported as concentration and as total mass (except for discharge flow, pH, and temperature). Total mass is the total weight of pollutants discharged over a day. Use the following abbreviations for units:

	Concentration	Mass	
ppm	parts per million	lbs	pounds
mg/1	milligrams per liter	ton	tons (English tons)
pob	parts per billion	ma	milligrams
Ug/1	micrograms per liter	9	grams
kg	kilograms	T	Tonnes (metric tons)

#### **A. Existing Sources**

You are required to provide at least one analysis for each pollutant or parameter listed by filling in the requested infor-

mation under the applicable column. Data reported must be representative of the facility's current operation (average daily value over the previous 365 days should be reported). Most facilities routinely monitor these pollutants or parameters as part of existing permit requirements.

The pollutants or parameters listed are: average flow, biochemical oxygen demand (BOD), total suspended solids (TSS), fecal coliform (if believed present or if sanitary waste is discharged), pH, total residual chlorine (if chlorine is used), temperature (winter and summer), oil and grease, chemical oxygen demand (COD), total organic carbon (TOC) (COD and TOC are only required if noncontact cooling water is discharged), and ammonia (as N). The analysis of these pollutants or parameters must be done in accordance with procedures promulgated in 40 CFR Part 136. Grab samples must be used for pH, temperature, residual chlorine, oil and grease, and fecal coliform. For all other pollutants, 24-hour composite samples must be used. Any further questions on sampling or analysis should be directed to your EPA or State permitting authority. The authority may request that you do additional testing, if appropriate, on a case-by-case basis under Section 308 of the Clean Water Act (CWA).

If you expect a pollutant to be present solely as a result of its presence in your intake water, state this information on Item VII of the form.

## **B. New Dischargers**

You are required to provide an estimated maximum daily and average daily value for each pollutant or parameter (exceptions noted on the form). Please note that followup testing and reporting are required no later than 2 years after the facility starts to discharge. Sampling and analysis are not required at this time. If, however, data from such analyses are available, then such data should be reported. The source of the estimates is also required. Base your determination of whether a pollutant will be present in your discharge on your knowledge of the proposed facility's use of maintenance chemicals, and any analyses of your effluent or of any similar effluent. You may also provide the estimates based on available inhouse or contractor's engineering reports or any other studies performed on the proposed facility. If you expect a pollutant or parameter to be present solely as a result of its presence in your intake water, state this information on Item VII of the form.

In providing the estimates, use the codes in the following table to indicate the source of such information.

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

## **C. Testing Waivers**

To request a waiver from reporting any of these pollutants or parameters, the applicant (whether a new or existing discharger) must submit to the permitting authority a written request specifying which pollutants or parameters should be waived and the reasons for requesting 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 any pollutant or parameter if he determines that less stringent reporting requirements are adequate to support issuance of the permit. No extensive documentation of the request will normally be needed, but the applicant should contact the permitting authority if he or she wishes to receive instructions on what his or her particular request should contain.

## item V

Describe the average frequency of flow and duration of any intermittent or seasonal discharge (except for stormwater runoff, leaks, or spills). The frequency of flow means the number of days or months per year there is intermittent discharge. Duration means the number of days or hours per discharge. For new dischargers, base your answers on your best estimate.

## item VI

Describe briefly any treatment system(s) used (or to be used for new dischargers), indicating whether the treatment system is physical, chemical, biological, sludge and disposal, or other. Also give the particular type(s) of process(es) used (or to be used). For example, if a physical treatment system is used (or will be used), specify the processes applied, such as grit removal, ammonia stripping, dialysis, etc.

#### Item VII

This item is intended for you to provide any additional information (such as sampling results) that you feel should be considered by the reviewer in establishing permit limitations. Any response here is optional. If you wish to demonstrate your eligibility for a "net" effluent limitation, i.e., an effluent limitation adjusted to provide credit for the pollutant(s) present in your intake water, please add a short statement of why you believe you are eligible (see §122.45(g)). You will then be contacted by the permitting authority for further instructions.

#### Item VIII

The Clean Water Act provides 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 of a principal business function, or any other person who performs similar policy or decisionmaking 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).

Please type or print in the u	nshaded areas only	EPA ID Number (d	copy from Item 1 of F	form 1) Fo	rm Approved. OME proval expires 5-31	3 No. 2040-0086 -92.
	A Facili	ties Which	Do Not D	eischarge P	rocess Wa	astewater
I. Receiving Waters						
For this outfall, lis	st the latitude a	nd longitude, ar	nd name of the r	eceiving water(s	)	
Outfall Lat Number (list) Deg	titude Lon Min Sec Deg I	ngitude Receiv Min Sec	ing Water <i>(name)</i>			
			······································	<u> </u>		
II. Discharge Date (If a new	discharger, the dat	le you expect to beg	in discharging)	·		
III. Type of Waste						
A. Check the box(es) indicati	ing the general type	(s) of wastes discha	irged.	Other N	onprocess	
Sanitary Wastes L	Restaurant or Cafe	eterie Wastes	Noncontact Cooling V	Vater L Western	nater ( <i>Identify)</i>	
IV. Effluent Characteristics A. Existing Sources — I authority (see instruct B. New Dischargers —	Provide measureme <i>tions).</i> Provide estimates	ints for the parameters	ters listed in the left-	hand column below.	, unless waived by	the permitting
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V. Except for leaks or shills, will the discharge described in this form be intermittent or seasonal		
If yes, briefly describe the frequency of flow and duration		0
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II. Discharge Date (If a new	w discherge	er, the de	ste you expe	ct to begin di	ischarging)			
I. Type of Wests			ates of water	- discharged				
Gentlery Wester		rient or Ca	Astaria Weste		r. ncontact Cooling V	Vater Was	r Nonprocess tewater (Identify)	
Marrie Chargestation								
A. Existing Sources — outhority (see instru	Provide au stions).	i i i i i i i i i i i i i i i i i i i	ents for the	perameters l	isted in the left-	hand column bei	ow, unless waived by	the permitting
authority. Instead of	- Provide L the numbe	r of mee	euremente t	sken, provide	the source of e	stimated values (	see instructions).	
Pollutent or Pergmeter	- Provide 4 the numbe	n of mea M Da Mai	euremente t (1) wimum W Value Weisening	eken, provide	the source of e Avera Value ( (inclu	(2) ge Deily lest yeer) de units)	(3) (3) Number of Messurements — Teken	(or) (4) Source of Estimate (if new
Authority. Instead of Pollutent or Paremeter Biochamical Ongeon Demand 2009	- Provide 4 the numbe	r of mee M De Misi Asse	(1) (1) without by Value We colley Carteer	aken, provide tration	Avera Value / (inclui Mass	(2) ge Deily lest yeer/ Concentration	(3) (3) Number of Measurements Teken (last year)	(or) (4) Source of Estimate (if new discharger)
Authority. Instead of Pollutant or Parameter Bechanized Organ Demend (BCIO) Tatel Suspended Solids (TSS)	- Provide 4 the numbe	n of mee M De Misi	(1) etimum ity Yalue ite unity Caneer	aken, provide tration	the source of e Avera Value / <i>(inclui</i> Mass	(2) ge Daily lest yeer) de units) Concentration	(3) (3) Number of Messurements Teken (last year)	(or) (4) Source of Estimate (if new discherger)
Authority. Instead of Polluters or Peremoser Bechamicel Orgen Demend (BOD) Tetel Suspended Solids (TSS) Feed Colliers (II believed Internet or if senitory weste is	- Provide 4 the numbe	to of mean bin Do Alterno	(1) (1) Witmum By Value We unity Carteer	aken, provide stration	Avera Value ( (Inclui Mass	(2) ge Deily lest yeer/ Concentration	(3) (3) Number of Messurements (last year)	(or) (4) Source of Estimate (if new discharger)
Authority. Instead of Pollutent or Peremeter Bechamical Oragon Demend (BGO) Tatel Suspended Solids (TSS) Fecal Collierm (II balloved Areant or if senitary waste is discharged) Total Residual Chlorine (II philorine is used)	- Provide 4 the numbe	n of mee M De Alter	(1) (1) etimum Hy Value Value Carteer	aken, provide	the source of e Avera Value / <i>(Inclui</i> Mess	(2) ge Deily lest yeer) de units) Concentration	(3) (3) Number of Messurements Teken (last year)	(or) (4) Source of Estimate (if new discherger)
Authority. Instead of Polluters or Peremoser Bechamicel Organ Demend (BOD) Tetel Suspended Solids (TSS) Feed Collierm (II believed present or if senitary wests is discharged) Total Residual Chlorine (II shidrine is used) Dil and Greece	- Provide 4 the numbe	M Do Mano	(1) (1) without by Value Version Cantoer	aken, provide	Avere Velue ( (inclu Mass	(2) ge Deily lest yeer/ de units) Concentration	(3) (3) Number of Measurements Teken (last year)	(or) (4) Source of Estimate (if new discharger)
Authority. Instead of Pollutent or Peremeter Demend (BOD) Totel Suspended Solids (TSS) Feed Collform (II balleved present or if senitary waste is discharged) Totel Residual Chlorine (II offerine is used) Dil and Greese "Chemical oxygen demand COD)	- Provide 4 the numbe	M So Notes	(1) (1) utimum ity Yalue Caneor Caneor	aken, provide	Avera Velue / <i>(Inclui</i> Mess	(2) ge Deily lest yeer/ de units) Concentration	(3) (3) (3) Number of Messurements Taken (last year)	(or) (4) Source of Estimate (if new discharger)
Authority. Instead of Pollutent or Peremoser Bechanical Organ Demend (BOD) Tetel Suspended Solids (TSS) Feed Collierm (If believed present er if senitary waste is decharged) Total Residual Chlorine (If thiorine is used) Dil and Grease "Chemical oxygen demand COD) Total organic carbon (TOC)	in a second seco	M Do Marco	(1) (1) utimum Hy Value Life unity Carteer	aken, provide	Avera Velue ( (Inclui Mass	(2) ge Deily lest yeer/ de units) Concentration	(3) (3) Number of Measurements Teken (last year)	(or) (4) Source of Estimate (if new discharger)
Authority. Instead of Polluterit or Paremeter Demand (BCO) Tetel Suspended Solids (TSS) Fecal Collierin (II balloved areaant or if senitary waste is discharged) Total Residual Chlorine (II ohlorine is used) Dil and Grease "Chemical oxygen demand (COD) Total organic carbon (TOC)	Normality of the number of the	M Do Mine Maso	(1) (1) withum by Yalue Canen Canen	aken, provide	Avera Value ( (inclu Mass	(2) ge Deily lest yeer) de units) Concentration	(3) (3) Number of Measurements 	(or) (4) Source of Estimate (if new discharger)
Authority. Instead of Polluterit or Peremotor Demended Chayen Demend (BOD) Total Buspended Solids (TSS) Feed Collierm (II believed present or if senitary waste is discharged) Total Residual Chlorine (II chlorine is used) Dil and Greese "Chemical oxygen demend (COD) 'Total organic carbon (TOC) Immonie (as N) Ischarge Flow	Value	M So Mine	(1) (1) utimum ity Yalue Contest Contest	aken, provide	Avera Value / (inclui Mass	(2) ge Deily lest yeer/ de units) Concentration	(3) (3) (3) Number of Messurements Taken (last year)	(or) (4) Source of Estimate (if new discharger)
Authority. Instead of Polluterst or Peremoser Bechamical Organ Demend (BOD) Tetel Suspended Solids (TSS) Feed Collierm (II believed present or if senitory wester in discharged) Total Residual Chlorine (II shiorine is used) Dil and Grasse "Chemical oxygen demand COD) Total organic carbon (TOC) Immonia (as Al) lacharge Flow H (give range)	Value Value	M Do M Do Mano	(1) (1) without by Value Cartoon Cartoon	aken, provide	Avere Velue / (inclu Mess	(2) ge Deily (2) ge Deily (est yeer) de units) Concentration	(3) (3) (3) Number of Measurements (last year)	(or) (4) Source of Estimate (if new discharger)
Authority. Instead of Polluterit or Paremeter Demand (BOD) Tetel Suspended Solide (TSS) Fecal Collierin (II balloved present or if senitary waste is discharged) Total Residual Chlorine (II ohlorine is used) Dil and Greese "Chemical oxygen demand COD) Total organic carbon (TOC) Immonie (as N) Ischarge Flow H (give range)	Value	M Do Maso	(1) without the contract of th	eken, provide wretion	Avere Velue ( (inclu Mass	(2) ge Deily lest yeer) de units) Concentration	(3) (3) (3) Number of Measurements Teken (last year) 	(or) (4) Source of Estimate (if new discharger)
Authority. Instead of Polluterit or Peremoter Demend (BOD) Tetel Buspended Solids (TSS) Feed Collierm (II believed present or if senitary waste is discharged) Total Residual Chlorine (II chlorine is used) Dil and Greese "Chemical oxygen demand (COD) ITetal organic carbon (TOC) Immonis (as N) Ischarge Flow H (give range) Imperature (Winter)	Value	M Se Mini	(1) (1) utimum by Yalue Content Content 	eken, provide wreation	Avera Value ( (inclu Mass	(2) ge Deily lest yeer) de units) Concentration	(3) (3) (3) Number of Messurements Teken (last year) (last year) (last year) (last year)	(or) (4) Source of Estimate (if new discharger)

V. Except for leaks or spills, will the discharge described in this form be intermittent or seasonal?		Π
If yes, briefly describe the frequency of flow and duration.	Yes	
VI. Treatment System (Describe briefly any treatment system(s) used or to be used)		
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 a	ny other information you feel
should be considered in establishing permit limitations. Attach additional sheets, if necessa	ку	
VIII. Certification		
I certify under penalty of law that this document and all attachments were prepared under my	direction or su	pervision in accordance with
a system designed to assure that quaimed personnel property gather and evaluate the inform person or persons who manage the system, or those persons directly responsible for aethering	ecion submitti 7 the informati	ea. stassed on my inquiry of the on, the information submitted
is to the best of my knowledge and belief, true, accurate, and complete. I am aware that there is information, including the possibility of fine and imprisonment for because violations	ere significant	penalties for submitting false
A. Name & Official Title	·····	8, Phone No. (area code
		& no.)
C. Signature		D. Date Signed