United States Environmental Protection Agency

Office of Enforcement Washington, DC 20460

EPA Form 3510-2C Revised August 1990 Previous editions are obsolete

Permits Division



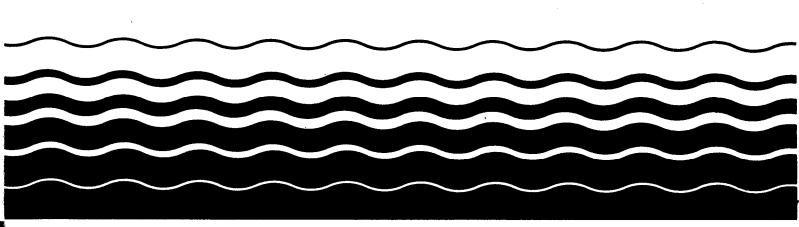
Application Form 2C -Wastewater Discharge Information

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).



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Paperwork Reduction Act Notice

The public reporting burden for this collection of information is estimated to average 33 hours per response. This estimate includes time for reviewing instructions, searching existing data sources, gathering and maintaining the needed data, and completing and reviewing the collection of information. Send comments regarding the burden estimate or any other aspect of this collection of information to the Chief, Information Policy Branch (PM-223), US Environmental Protection Agency, 401 M Street, SW, Washington, DC 20460, and to the Office of Information and Regulatory Affairs, Office of Management and Budget, Washington, DC 20503, marked Attention: Desk Officer for EPA.

INSTRUCTIONS — FORM 2c

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 I of Form 1.

Item !

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 unit you list. If you are applying for a permit for a privately owned 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 III-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 Ill-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.

Item 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-E

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 (sample and analyze) 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 that 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	lbspounds
mg/l milligrams per liter	ton tons (English tons)
ppb parts per billion	mg milligrams
ug/I micrograms per liter	g grams
	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 disselved, 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, Part's 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 column 3-b, Parts B and C).

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-B 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 question 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.

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 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 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 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).

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 TREATMENT UNITS

PHYSICAL TREATMENT PROCESSES

1—AAmmonia Stripping 1—BDialysis 1—CDiatomaceous Earth Filtration 1—DDistillation 1—EElectrodialysis 1—FEvaporation 1—GFlocculation 1—HFlotation 1—IFoam Fractionation 1—JFreezing 1—KGas—Phase Separation 1—LGrinding (Comminutors)	1-M Grit Removal 1-N Microstraining 1-O 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	ı
CHEMICAL TREATM	MENT PROCESSES	
2-ACarbon Adsorption 2-BChemical Oxidation 2-CChemical Precipitation 2-DCoagulation 2-EDechlorination 2-FDisinfection (Chlorine)	2-GDisinfection (Ozone) 2-HDisinfection (Other) 2-IElectrochemical Treatment 2-JIon Exchange 2-KNeutralization 2-LReduction	
BIOLOGICAL TREAT	MENT PROCESSES	
3-A	3-E	1
OTHER PR	OCESSES	
4-A	4-C	it
SLUDGE TREATMENT AN	D DISPOSAL PROCESSES	
5-A	5-M Heat Drying 5-N Heat Treatment 5-O 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	

TESTING REQUIREMENTS FOR ORGANIC TOXIC POLLUTANTS INDUSTRY CATEGORY*

		GC/MS	FRACTION'	
INDUSTRY CATEGORY	Volatile	Acid	Base/Neutral	Pesticid
Adhesives and sealants	X	X	×	_
Aluminum forming	X	×	X	_
Auto and other laundries	X	×	X	Х
Battery manufacturing	X	_	· X	_
Coal mining	X	×	Х	×
Coil coating	×	×	X	_
Copper forming	X	×	X	-
lectric and electronic compounds	X	×	X	Х
lectroplating	X	×	X	_
xplosives manufacturing	_	×	X	_
oundries	X	X	X	_
Sum and wood chemicals	· X	X	X	х
norganic chemicals manufacturing	X	X	X	_
ron and steel manufacturing	×	×	X	_
eather tanning and finishing	×	. X	x	х
Mechanical products manufacturing	X	X	x	_
Ionferrous metals manufacturing	X	X	x	х
Ore mining	X	X	x	X
Organic chemicals manufacturing	×	x	X	x
aint and ink formulation	×	×	×	x
esticides	X	×	×	x
etroleum refining	×	×	x	x
harmaceutical preparations	×	x	×	^
hotographic equipment and supplies	X	x	x	X
lastic and synthetic materials manufacturing	x ·	x	x	x
lastic processing	X		_	
orcelain enameling	X		X	×
rinting and publishing	X	x	x	x
ulp and paperboard mills	X	×	x	x
ubber processing	×	x	x	^
oap and detergent manufacturing	x	×	x	_
team electric power plants	×	x	x	
extile mills	X	. X	x	X
imber products processing	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.

¹The pollutants in each fraction are listed in Item V—C.

X = Testing required.

^{— =} Testing not required.

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

TOXIC POLLUTANT

Asbestos

HAZARDOUS SUBSTANCES

Acetaldehyde Allyl alcohol Allyl chloride Amyl acetate Aniline Benzonitrile Benzyl chloride Butyl acetate Butylamine Captan Carbaryl Carbofuran Carbon disulfide Chlorpyrifos Coumaphos Cresol Crotonaldehyde

Cyclohexane
2,4-D (2,4-Dichlorophenoxyacetic acid)

Diazinon Dicamba Dichlobenil Dichlone

2,2-Dichloropropionic acid

HAZARDOUS SUBSTANCES

Dichlorvos Diethyl amine Dimethyl amine Dintrobenzene 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 Monomethyl amine

HAZARDOUS SUBSTANCES

Napthenic acid Nitrotoluene Parathion Phenolsulfonate Phosgene Propargite Propylene oxide Pyrethrins Quinoline Resorcinol Strontium Strychnine

Styrene
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 Xylenol Zirconium

Z. ACCIIC BUIL
3. Acetic anhydride
4. Acetone cyanohydrin
5. Acetyl bromide
6. Acetyl chloride
7. Acrolein
8. Acrylonitrile
9. Adipic acid
10. Aldrin
11. Allyl alcohol
12. Allyl chloride
12. Atuminum autom
13. Aluminum sulfate
14. Ammonia
15. Ammonium acetate
16. Ammonium benzoate
17. Ammonium bicarbonate
18. Ammonium bichromate
19. Ammonium bifluoride
20. Ammonium bisulfite
21. Ammonium carbamate
22. Ammonium carbonate
23. Ammonium chloride
24. Ammonium chromate
25. Ammonium citrate
25. Animomum 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
O.A. Antimoritani surrice
34. Ammonium tartrate
35. Ammonium thiocyanate
36. Ammonium thiosulfate
36. Ammonium thiosulfate
36. Ammonium thiosulfate 37. Amyl acetate
36. Ammonium thiosulfate 37. Amyl acetate 38. Aniline
36. Ammonium thiosulfate 37. Amyl acetate 38. Aniline
36. Ammonium thiosulfate 37. Amyl acetate 38. Aniline 39. Antimony pentachloride
36. Ammonium thiosulfate37. Amyl acetate38. Aniline39. Antimony pentachloride40. Antimony potassium tartrate
 36. Ammonium thiosulfate 37. Amyl acetate 38. Aniline 39. Antimony pentachloride 40. Antimony potassium tartrate 41. Antimony tribromide
 36. Ammonium thiosulfate 37. Amyl acetate 38. Aniline 39. Antimony pentachloride 40. Antimony potassium tartrate 41. Antimony tribromide
 36. Ammonium thiosulfate 37. Amyl acetate 38. Aniline 39. Antimony pentachloride 40. Antimony potassium tartrate 41. Antimony tribromide 42. Antimony trichloride
 36. Ammonium thiosulfate 37. Amyl acetate 38. Aniline 39. Antimony pentachloride 40. Antimony potassium tartrate 41. Antimony tribromide 42. Antimony trichloride
 36. Ammonium thiosulfate 37. Amyl acetate 38. Aniline 39. Antimony pentachloride 40. Antimony potassium tartrate 41. Antimony tribromide 42. Antimony tribloride 43. Antimony trifluoride
 36. Ammonium thiosulfate 37. Amyl acetate 38. Aniline 39. Antimony pentachloride 40. Antimony potassium tartrate 41. Antimony tribromide 42. Antimony triphloride 43. Antimony trifluoride 44. Antimony trioxide
 36. Ammonium thiosulfate 37. Amyl acetate 38. Aniline 39. Antimony pentachloride 40. Antimony potassium tartrate 41. Antimony tribromide 42. Antimony triphloride 43. Antimony trifluoride 44. Antimony trioxide
36. Ammonium thiosulfate 37. Amyl acetate 38. Aniline 39. Antimony pentachloride 40. Antimony potassium tartrate 41. Antimony tribhoride 42. Antimony trichloride 43. Antimony trifluoride 44. Antimony trioxide 45. Arsenic disulfide
36. Ammonium thiosulfate 37. Amyl acetate 38. Aniline 39. Antimony pentachloride 40. Antimony potassium tartrate 41. Antimony tribromide 42. Antimony tribloride 43. Antimony trifluoride 44. Antimony trioxide 45. Arsenic disulfide 46. Arsenic pentoxide
36. Ammonium thiosulfate 37. Amyl acetate 38. Aniline 39. Antimony pentachloride 40. Antimony potassium tartrate 41. Antimony tribromide 42. Antimony tribloride 43. Antimony trifluoride 44. Antimony trioxide 45. Arsenic disulfide 46. Arsenic pentoxide
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
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
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
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36. Ammonium thiosulfate 37. Amyl acetate 38. Aniline 39. Antimony pentachloride 40. Antimony protassium tartrate 41. Antimony tribhoride 42. Antimony trichloride 43. Antimony trifluoride 44. Antimony trifluoride 45. Arsenic disulfide 46. Arsenic pentoxide 47. Arsenic trichloride 48. Arsenic trioxide 49. Arsenic trisulfide 50. Barium cyanide
36. Ammonium thiosulfate 37. Amyl acetate 38. Aniline 39. Antimony pentachloride 40. Antimony pribromide 41. Antimony tribromide 42. Antimony trichloride 43. Antimony trifluoride 44. Antimony trifluoride 45. Arsenic disulfide 46. Arsenic pentoxide 47. Arsenic trichloride 48. Arsenic trichloride 49. Arsenic trioxide
36. Ammonium thiosulfate 37. Amyl acetate 38. Aniline 39. Antimony pentachloride 40. Antimony protassium tartrate 41. Antimony tribhloride 42. Antimony trichloride 43. Antimony trichloride 44. Antimony trioxide 45. Arsenic disulfide 46. Arsenic trichloride 47. Arsenic trichloride 48. Arsenic trichloride 49. Arsenic trisulfide 50. Barium cyanide 51. Benzene
36. Ammonium thiosulfate 37. Amyl acetate 38. Aniline 39. Antimony pentachloride 40. Antimony potassium tartrate 41. Antimony tribromide 42. Antimony tribloride 43. Antimony trifluoride 44. Antimony trioxide 45. Arsenic disulfide 46. Arsenic disulfide 47. Arsenic trichloride 48. Arsenic trioxide 49. Arsenic trisulfide 50. Barium cyanide 51. Benzene 52. Benzoic acid
36. Ammonium thiosulfate 37. Amyl acetate 38. Aniline 39. Antimony pentachloride 40. Antimony protassium tartrate 41. Antimony tribhloride 42. Antimony trichloride 43. Antimony trichloride 44. Antimony trioxide 45. Arsenic disulfide 46. Arsenic trichloride 47. Arsenic trichloride 48. Arsenic trichloride 49. Arsenic trisulfide 50. Barium cyanide 51. Benzene
36. Ammonium thiosulfate 37. Amyl acetate 38. Aniline 39. Antimony pentachloride 40. Antimony potassium tartrate 41. Antimony tribromide 42. Antimony tribroride 43. Antimony trifluoride 44. Antimony trioxide 45. Arsenic disulfide 46. Arsenic pentoxide 47. Arsenic pentoxide 48. Arsenic trioxide 49. Arsenic trioxide 50. Barium cyanide 51. Benzene 52. Benzoic acid 53. Benzonitrile
36. Ammonium thiosulfate 37. Amyl acetate 38. Aniline 39. Antimony pentachloride 40. Antimony potassium tartrate 41. Antimony tribnoride 42. Antimony trichloride 43. Antimony trifluoride 44. Antimony trifluoride 44. Antimony trioxide 45. Arsenic disulfide 46. Arsenic pentoxide 47. Arsenic trichloride 48. Arsenic trioxide 49. Arsenic trioxide 50. Barium cyanide 51. Benzene 52. Benzoic acid 53. Benzonitrile 54. Benzoyl chloride
36. Ammonium thiosulfate 37. Amyl acetate 38. Aniline 39. Antimony pentachloride 40. Antimony potassium tartrate 41. Antimony tribromide 42. Antimony tribroride 43. Antimony trifluoride 44. Antimony trioxide 45. Arsenic disulfide 46. Arsenic pentoxide 47. Arsenic pentoxide 48. Arsenic trioxide 49. Arsenic trioxide 50. Barium cyanide 51. Benzene 52. Benzoic acid 53. Benzonitrile
36. Ammonium thiosulfate 37. Amyl acetate 38. Aniline 39. Antimony pentachloride 40. Antimony potassium tartrate 41. Antimony tribhoride 42. Antimony tribhoride 43. Antimony trifluoride 44. Antimony trifluoride 44. Antimony trioxide 45. Arsenic disulfide 46. Arsenic pentoxide 47. Arsenic trichloride 48. Arsenic trioxide 49. Arsenic trisulfide 50. Barium cyanide 51. Benzoic acid 53. Benzonitrile 54. Benzoyl chloride 55. Benzyl chloride
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 disulfide 47. Arsenic trichloride 48. Arsenic trichloride 49. Arsenic trisulfide 50. Barium cyanide 51. Benzene 52. Benzoic acid 53. Benzonitrile 54. Benzoyl chloride 55. Benzyl chloride 56. Beryllium chloride
36. Ammonium thiosulfate 37. Amyl acetate 38. Aniline 39. Antimony pentachloride 40. Antimony potassium tartrate 41. Antimony tribromide 42. Antimony tribromide 43. Antimony trifluoride 44. Antimony trifluoride 44. Antimony trioxide 45. Arsenic disulfide 46. Arsenic disulfide 47. Arsenic trichloride 48. Arsenic trioxide 49. Arsenic trioxide 50. Barium cyanide 51. Benzene 52. Benzoic acid 53. Benzonitrile 54. Benzoyl chloride 55. Benzyl chloride 56. Beryllium chloride 57. Beryllium fluoride
36. Ammonium thiosulfate 37. Amyl acetate 38. Aniline 39. Antimony pentachloride 40. Antimony potassium tartrate 41. Antimony tribromide 42. Antimony tribromide 43. Antimony trifluoride 44. Antimony trifluoride 44. Antimony trioxide 45. Arsenic disulfide 46. Arsenic disulfide 47. Arsenic trichloride 48. Arsenic trioxide 49. Arsenic trioxide 50. Barium cyanide 51. Benzene 52. Benzoic acid 53. Benzonitrile 54. Benzoyl chloride 55. Benzyl chloride 56. Beryllium chloride 57. Beryllium fluoride
36. Ammonium thiosulfate 37. Amyl acetate 38. Aniline 39. Antimony pentachloride 40. Antimony potassium tartrate 41. Antimony tribromide 42. Antimony tribromide 43. Antimony trifluoride 44. Antimony trifluoride 44. Antimony trioxide 45. Arsenic disulfide 46. Arsenic disulfide 47. Arsenic trickloride 48. Arsenic trioxide 49. Arsenic trioxide 50. Barium cyanide 51. Benzene 52. Benzole acid 53. Benzonitrile 54. Benzoyl chloride 55. Benzyl chloride 56. Beryllium chloride 57. Beryllium fluoride 58. Beryllium nitrate
36. Ammonium thiosulfate 37. Amyl acetate 38. Aniline 39. Antimony pentachloride 40. Antimony potassium tartrate 41. Antimony tribnoride 42. Antimony trichloride 43. Antimony trichloride 44. Antimony trifluoride 44. Antimony trifluoride 45. Arsenic disulfide 46. Arsenic pentoxide 47. Arsenic trichloride 48. Arsenic trichloride 49. 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 fluoride 58. Beryllium nitrate 59. Butylacetate
36. Ammonium thiosulfate 37. Amyl acetate 38. Aniline 39. Antimony pentachloride 40. Antimony potassium tartrate 41. Antimony tribnoride 42. Antimony trichloride 43. Antimony trichloride 44. Antimony trifluoride 44. Antimony trifluoride 45. Arsenic disulfide 46. Arsenic pentoxide 47. Arsenic trichloride 48. Arsenic trichloride 49. 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 fluoride 58. Beryllium nitrate 59. Butylacetate
36. Ammonium thiosulfate 37. Amyl acetate 38. Aniline 39. Antimony pentachloride 40. Antimony potassium tartrate 41. Antimony tribromide 42. Antimony trichloride 43. Antimony trichloride 44. Antimony trichloride 45. Arsenic disulfide 46. Arsenic disulfide 47. Arsenic trichloride 48. Arsenic trichloride 49. Arsenic trisulfide 50. Barium cyanide 51. Benzene 52. Benzoic acid 53. Benzonitrile 54. Benzoyl chloride 55. Berzyl chloride 56. Beryllium chloride 57. Beryllium fluoride 58. Beryllium nitrate 59. Butylacetate 60. n-Butylphthalate
36. Ammonium thiosulfate 37. Amyl acetate 38. Aniline 39. Antimony pentachloride 40. Antimony potassium tartrate 41. Antimony tribromide 42. Antimony tribrioride 43. Antimony trifluoride 44. Antimony trifluoride 44. Antimony trioxide 45. Arsenic disulfide 46. Arsenic disulfide 47. Arsenic trioxide 48. Arsenic trioxide 49. Arsenic trioxide 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
36. Ammonium thiosulfate 37. Amyl acetate 38. Aniline 39. Antimony pentachloride 40. Antimony potassium tartrate 41. Antimony tribromide 42. Antimony tribromide 43. Antimony tribloride 44. Antimony tribloride 45. Arsenic disulfide 46. Arsenic pentoxide 47. Arsenic trichloride 48. Arsenic trioxide 49. Arsenic trioxide 50. Barium cyanide 51. Benzene 52. Benzoic acid 53. Benzonitrile 54. Benzoyl chloride 55. Benzyl chloride 56. Beryllium chloride 57. Beryllium fluoride 58. Beryllium fluoride 59. Butylacetate 60. n-Butylphthalate 61. Butylamine 62. Butyric acid
36. Ammonium thiosulfate 37. Amyl acetate 38. Aniline 39. Antimony pentachloride 40. Antimony potassium tartrate 41. Antimony tribromide 42. Antimony tribromide 43. Antimony tribloride 44. Antimony tribloride 45. Arsenic disulfide 46. Arsenic pentoxide 47. Arsenic trichloride 48. Arsenic trioxide 49. Arsenic trioxide 50. Barium cyanide 51. Benzene 52. Benzoic acid 53. Benzonitrile 54. Benzoyl chloride 55. Benzyl chloride 56. Beryllium chloride 57. Beryllium fluoride 58. Beryllium fluoride 59. Butylacetate 60. n-Butylphthalate 61. Butylamine 62. Butyric acid
36. Ammonium thiosulfate 37. Amyl acetate 38. Aniline 39. Antimony pentachloride 40. Antimony potassium tartrate 41. Antimony tribromide 42. Antimony tribromide 43. Antimony tribloride 44. Antimony trifluoride 44. Antimony trifluoride 45. Arsenic disulfide 46. Arsenic pentoxide 47. Arsenic trichloride 48. Arsenic trioxide 49. Arsenic trioxide 50. Barium cyanide 51. Benzene 52. Benzoic acid 53. Benzonitrile 54. Benzoyl chloride 55. Benzyl chloride 56. Beryllium chloride 57. Beryllium fluoride 58. Beryllium fluoride 59. Butylacetate 60. n-Butylphthalate 61. Butylamine 62. Butyric acid 63. Cadmium acetate
36. Ammonium thiosulfate 37. Amyl acetate 38. Aniline 39. Antimony pentachloride 40. Antimony potassium tartrate 41. Antimony tribromide 42. Antimony tribrioride 43. Antimony triblioride 44. Antimony tribuoride 44. Antimony tribuoride 45. Arsenic disulfide 46. Arsenic trichloride 47. Arsenic trichloride 48. Arsenic trichloride 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 fluoride 59. Butylacetate 60. n-Butylphthalate 61. Butylamine 62. Butyric acid 63. Cadmium acetate 64. Cadmium bromide
36. Ammonium thiosulfate 37. Amyl acetate 38. Aniline 39. Antimony pentachloride 40. Antimony potassium tartrate 41. Antimony tribromide 42. Antimony tribrioride 43. Antimony triblioride 44. Antimony tribuoride 44. Antimony tribuoride 45. Arsenic disulfide 46. Arsenic trichloride 47. Arsenic trichloride 48. Arsenic trichloride 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 fluoride 59. Butylacetate 60. n-Butylphthalate 61. Butylamine 62. Butyric acid 63. Cadmium acetate 64. Cadmium bromide
36. Ammonium thiosulfate 37. Amyl acetate 38. Aniline 39. Antimony pentachloride 40. Antimony potassium tartrate 41. Antimony tribromide 42. Antimony tribrioride 43. Antimony triphloride 44. Antimony triphloride 44. Antimony trioxide 45. Arsenic disulfide 46. Arsenic disulfide 47. Arsenic trichloride 48. Arsenic trioxide 49. Arsenic trioxide 49. Arsenic trioxide 50. Barium cyanide 51. Benzene 52. Benzoic acid 53. Benzonitrile 54. Benzoyl chloride 55. Benzyl chloride 56. Beryllium fluoride 57. Beryllium fluoride 58. Beryllium nitrate 59. Butylacetate 60. n-Butylphthalate 61. Butylamine 62. Butyric acid 63. Cadmium acetate 64. Cadmium chloride 65. Cadmium chloride
36. Ammonium thiosulfate 37. Amyl acetate 38. Aniline 39. Antimony pentachloride 40. Antimony potassium tartrate 41. Antimony tribromide 42. Antimony tribromide 43. Antimony triphoride 44. Antimony triphoride 44. Antimony triphoride 45. Arsenic disulfide 46. Arsenic disulfide 47. Arsenic trichloride 48. Arsenic trioxide 49. Arsenic trioxide 49. Arsenic trioxide 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-Butylamine 61. Butylamine 62. Butyric acid 63. Cadmium acetate 64. Cadmium bromide 65. Cadmium chloride 66. Calcium arsenate
36. Ammonium thiosulfate 37. Amyl acetate 38. Aniline 39. Antimony pentachloride 40. Antimony potassium tartrate 41. Antimony tribromide 42. Antimony tribromide 43. Antimony triphoride 44. Antimony triphoride 44. Antimony triphoride 45. Arsenic disulfide 46. Arsenic disulfide 47. Arsenic trichloride 48. Arsenic trioxide 49. Arsenic trioxide 49. Arsenic trioxide 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-Butylamine 61. Butylamine 62. Butyric acid 63. Cadmium acetate 64. Cadmium bromide 65. Cadmium chloride 66. Calcium arsenate
36. Ammonium thiosulfate 37. Amyl acetate 38. Aniline 39. Antimony pentachloride 40. Antimony potassium tartrate 41. Antimony tribromide 42. Antimony tribromide 43. Antimony triblioride 44. Antimony tribroride 45. Arsenic disulfide 46. Arsenic pentoxide 47. Arsenic trichloride 48. Arsenic trioxide 49. Arsenic trioxide 50. Barium cyanide 51. Benzene 52. Benzoic acid 53. Benzonitrile 54. Benzoyl chloride 55. Benzyl chloride 56. Beryllium chloride 57. Beryllium fluoride 58. Beryllium fluoride 59. Butylacetate 60. n-Butylphthalate 61. Butylamine 62. Butyric acid 63. Cadmium acetate 64. Cadmium bromide 65. Cadmium chloride 66. Calcium arsenite
36. Ammonium thiosulfate 37. Amyl acetate 38. Aniline 39. Antimony pentachloride 40. Antimony potassium tartrate 41. Antimony tribromide 42. Antimony tribromide 43. Antimony triblloride 44. Antimony triblloride 44. Antimony triblloride 45. Arsenic disulfide 46. Arsenic tribromide 47. Arsenic tribromide 48. Arsenic tribromide 49. Arsenic tribromide 50. Barium cyanide 51. Benzene 52. Benzoic acid 53. Benzonitrile 54. Benzoyl chloride 55. Berzyl chloride 56. Beryllium chloride 57. Beryllium fluoride 58. Beryllium nitrate 59. Butylacetate 60. n-Butylamine 61. Butylamine 62. Butyric acid 63. Cadmium acetate 64. Cadmium bromide 65. Cadmium chloride 66. Calcium arsenate 67. Calcium arsenate 68. Calcium carbide
36. Ammonium thiosulfate 37. Amyl acetate 38. Aniline 39. Antimony pentachloride 40. Antimony potassium tartrate 41. Antimony tribromide 42. Antimony tribromide 43. Antimony triblloride 44. Antimony triblloride 44. Antimony triblloride 45. Arsenic disulfide 46. Arsenic tribromide 47. Arsenic tribromide 48. Arsenic tribromide 49. Arsenic tribromide 50. Barium cyanide 51. Benzene 52. Benzoic acid 53. Benzonitrile 54. Benzoyl chloride 55. Berzyl chloride 56. Beryllium chloride 57. Beryllium fluoride 58. Beryllium nitrate 59. Butylacetate 60. n-Butylamine 61. Butylamine 62. Butyric acid 63. Cadmium acetate 64. Cadmium bromide 65. Cadmium chloride 66. Calcium arsenate 67. Calcium arsenate 68. Calcium carbide
36. Ammonium thiosulfate 37. Amyl acetate 38. Aniline 39. Antimony pentachloride 40. Antimony potassium tartrate 41. Antimony tribromide 42. Antimony tribromide 43. Antimony triblioride 44. Antimony tribroride 45. Arsenic disulfide 46. Arsenic pentoxide 47. Arsenic trichloride 48. Arsenic trioxide 49. Arsenic trioxide 50. Barium cyanide 51. Benzene 52. Benzoic acid 53. Benzonitrile 54. Benzoyl chloride 55. Benzyl chloride 56. Beryllium chloride 57. Beryllium fluoride 58. Beryllium fluoride 59. Butylacetate 60. n-Butylphthalate 61. Butylamine 62. Butyric acid 63. Cadmium acetate 64. Cadmium bromide 65. Cadmium chloride 66. Calcium arsenite
36. Ammonium thiosulfate 37. Amyl acetate 38. Aniline 39. Antimony pentachloride 40. Antimony potassium tartrate 41. Antimony tribromide 42. Antimony tribromide 43. Antimony triblloride 44. Antimony triblloride 44. Antimony triblloride 45. Arsenic disulfide 46. Arsenic tribromide 47. Arsenic tribromide 48. Arsenic tribromide 49. Arsenic tribromide 50. Barium cyanide 51. Benzene 52. Benzoic acid 53. Benzonitrile 54. Benzoyl chloride 55. Berzyl chloride 56. Beryllium chloride 57. Beryllium fluoride 58. Beryllium nitrate 59. Butylacetate 60. n-Butylamine 61. Butylamine 62. Butyric acid 63. Cadmium acetate 64. Cadmium bromide 65. Cadmium chloride 66. Calcium arsenate 67. Calcium arsenate 68. Calcium carbide

1. Acetaldehyde

2. Acetic acid

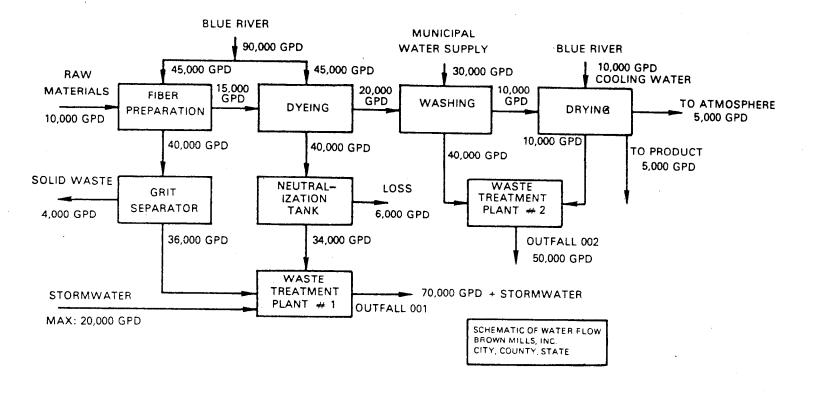
70. Calcium cyanide
71. Calcium dodecylbenzenesulfonate
72. Calcium hypochlorite 73. Captan
74. Carbaryl
75. Carbofuran 76. Carbon disulfide
77. Carbon tetrachloride
78. Chlordane 79. Chlorine
80. Chlorobenzene
81. Chloroform 82. Chloropyrifos
83. Chlorosulfonic acid
84. Chromic acetate
85. Chromic acid 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-Dichlorophenoxyacetic acid)
105. 2,4-D esters (2,4-Dichlorophenoxyacetic
acid esters) 106. DDT
107. Diazinon
108. Dicamba 109. Dichlobenil
110. Dichlone
111. Dichlorobenzene 112. Dichloropropane
113. Dichloropropene
114. Dichloropropene-dichloproropane mix 115. 2,2-Dichloropropionic acid
116. Dichlorvos
117. Dieldrin 118. Diethylamine
119. 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
I 31. Ethylbenzene I 32. Ethylenediamine
33. Ethylene dibromide
134. Ethylene dichloride 135. Ethylene diaminetetracetic acid
(EDTA)

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136. Ferric ammonium citrate
 137. Ferric ammonium oxalate
 138. Ferric chloride
 139. Ferric fluoride
 140. Ferric nitrate
 141. Ferric sulfate
 142. Ferrous ammonium sulfate
 143. Ferrous chloride
 144. Ferrous sulfate
 145. Formaldehyde
 146. Formic acid
 147. Fumaric acid
 148. Furfural
 149. Guthion
 150. Heptachlor
 151. Hexachlorocyclopentadiene
152. Hydrochloric acid
153. Hydrofluoric acid
154. Hydrogen cyanide
155. Hydrogen sulfide
156. Isoprene
157. Isopropanolamine 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. Lindane
172. Lithium chromate
173. Malathion
174. Maleic acid
175. Maleic anhydride
176. Mercaptodimethur
177. Mercuric cyanide
178. Mercuric nitrate
179. Mercuric sulfate
180. Mercuric thiocyanate
181. Mercurous nitrate
182. Methoxychlor
183. Methyl mercaptan
184, Methyl methacrylate
185. Methyl parathion
186. Mevinphos
187. Mexacarbate
188. Monoethylamine
189. Monomethylamine
190, Naled
191. Naphthalene
192. Naphthenic acid
193. Nickel ammonium sulfate
194. Nickel chloride
195. Nickel hydroxide
196. Nickel nitrate
197. Nickel sulfate
198. Nitric acid
199. Nitrobenzene
200. Nitrogen dioxide
201. Nitrophenol
202. Nitrotoluene
203. Paraformaldehyde
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204. Parathion
205. Pentachlorophenol
206, Phenol
207. Phosgene
208. Phosphoric acid
209. Phosphorus
210. Phosphorus oxychloride
211. Phosphorus pentasulfide
212. Phosphorus trichloride
213. Polychlorinated biphenyls (PCB)
214. Potassium arsenate
215. Potassium arsenite
216. Potassium bichromate
217. Potassium chromate
218. Potassium cyanide
219. Potassium hydroxide
220. Potassium permanganate
221, Propargite
222. Propionic acid
223. Propionic anhydride
224. Propylene oxide
225. Pyrethrins
226. Quinoline
227. Resorcinol
228. Selenium oxide
229. Silver nitrate
230. Sodium
231. Sodium arsenate
232. Sodium arsenite
233. Sodium bichromate
234, Sodium bifluoride
235. Sodium bisulfite
236. Sodium chromate
237. Sodium cyanide

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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)
247. Sodium selenite
248. Strontium chromate
249. Strychnine
250. Styrene
251. Sulfuric acid
252. Sulfur monochloride
253. 2,4,5-T acid (2,4,5-
Trichlorophenoxyacetic acid)
254. 2,4,5-T amines (2,4,5-Trichlorophenoxy
acetic acid amines)
255. 2,4,5-T esters (2,4,5-Trichlorophenoxy
acetic acid esters)
256. 2,4,5-T salts (2,4,5-Trichlorophenoxy
acetic acid salts)
257. 2,4,5-TP acid (2,4,5-Trichlorophenoxy
propanoic acid)
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
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266. Trichtoroethylene
267. Trichlorophenol
268. Triethanolamine
dodecylbenzenesulfonate
269. Triethylamine
270. Trimethylamine
271. Uranyl acetate
272. Uranyl nitrate
273. Vanadium pentoxide
274. Vanadyl sulfate
275. Vinyl acetate
276. Vinylidene chloride
277. Xylene
278. Xylenol
279. Zinc acetate
280. Zinc ammonium chloride
281. Zinc borate
282. Zinc bromide
283. Zinc carbonate
284. Zinc chloride
285. Zinc cyanide
286. Zinc fluoride
287, Zinc formate
288. Zinc hydrosulfite
289. Zinc nitrate
290. Zinc phenolsulfonate
291. Zinc phosphide
292, Zinc silicofluoride
293. Zinc sulfate
294. Zirconium nitrate
295. Zirconium potassium flouride
296. Zirconium sulfate
297. Zirconium tetrachloride
207. 2. comon concomondo



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2C SEP

U.S. ENVIRONMENTAL PROTECTION AGENCY
APPLICATION FOR PERMIT TO DISCHARGE WASTEWATER
YESTING MANUFACTURING COMMERCIAL MINING AND SILVICULTURAL (

EXISTING MANUFACTURING, COMMERCIAL, MINING AND SILVICULTURAL OPERATIONS

Consolidated Permits Program

LOUTAL LOCATION To see	NPDES		00451011					Consc	mualeu remnis rrogram		
S. LATITUDE						lies Incomina	to the	net 15	de and the name of the recojuing water		
(Bir) 1, case 1, 1, c	A. OUTF	ALL									
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(iii) 8. OPERATION (list) (include units) 8. DESCRIPTION TABLE 2C-1			2. (PERATIO	on(s) con	TRIBUTING		GE ELOW	<u> </u>	b. LIST CO	DES FROM
			a. OF	ERATION	t (list)		includ	e units)	a. DESCRIPTION	TABL	E 2C-1
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OFFICIAL USE ONLY (effluent guidelines sub-octegories)	OFFICE -		I ANI V 1-28		lean and	doma-last			<u> </u>		L

	OPERATION(s) TRIBUTING FLOT (list)	8. DAY	EK PER YEAR	a. FLOW (in n 1. LONG TERM AVERAGE		b. TOTAL (specify u	ith units)	c. DU ATIO (in da:
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		by EPA under Section 3	04 of the Clean V		ly to your fac Section IV)	ility?		
. Are the limitations in the ap		eline expressed in terms of	of production (or			7/?	•	
☐ YES (complete Ite		tity which represents an	actual massures		Section IV)	•:	- 4:- 4:- 4	
used in the applicable efflu	ent guideline, and in	dicate the affected outfo	alis.		svei oi produc	.tion, express	au in the terms	3 and u
	1. 4	AVERAGE DAILY PRODU	JCTION				2. AFFE	
B. QUANTITY PER DAY b.	JNITS OF MEASURE	c. o	PERATION, PRODU (Speci		ETC.		OUTFA (list outfall)	
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IMPROVEMENTS						l.		

CONTINUED FROM PAGE 2	EPA I.D. NUMBER (copy from	,		
V. INTAKE AND EFFLUENT CHAR				
A, B, & C: See instructions before NOTE: Tables V-A, V-	proceeding — Complete one set of to B, and V-C are included on separate	ables for each outfall — Annotate the sheets numbered V-1 through V-9.	outfall number in the space provided.	
D. Use the space below to list any discharged from any outfall. F possession.	of the pollutants listed in Table 2c or every pollutant you list, briefly o	3 of the instructions, which you kn describe the reasons you believe it to	ow or have reason to believe is discharged or be present and report any analytical data	nay bo n you
1. POLLUTANT	2. SOURCE	1. POLLUTANT	2. SOURCE	
VI. POTENTIAL DISCHARGES NO	T COVERED BY ANALYSIS			
Is any pollutant listed in Item V-C as byproduct?	substance or a component of a subst	tance which you currently use or mai	nufacture as an intermediate or final product	or ·
	rES (list all such pollutants below)	□ no	(go to Item VI-B)	
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Do you have any knowledge or reason receiving water in relation to your d	on to believe that any biological test for acute or chronischarge within the last 3 years?	nic toxicity has been made on any o	your discharges or on a
	tify the test(s) and describe their purposes below)	□ NO (go to Sec	tion VIII)
			,
ILCONTRACT ANALYSIS INFORI	MATION		
Were any of the analyses reported in	Item V performed by a contract laboratory or consu	Itina firm?	
	the name, address, and telephone number of, and political	_	tion IX)
TYES (list analy	the name, address, and telephone number of, and politized by, each such laboratory or firm below)	utants No (go to Sec	ID. POLLUTANTS ANALYZ
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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.

٧.	INTAKE AND	EFFLUENT	CHARACTERISTICS	(continued from page	3 of Form 2-Cl

OUTFALL NO

PART A -	You must provide the results of at least one ar	alysis for every pollutant in this table.	Complete one table for each outfall.	See instructions for additional details.

			2	. EFFLUENT				3. UN		4. IN	ITAKE (optiona	ıl)
1. POLLUTANT	a. MAXIMUM	DAILY VALUE	b. MAXIMUM 3	O DAY VALUE	CLONG TERM	A AVRG. VALUE	d. NO. OF	(specify i)	(blank)	a. LONG	G TERM E VALUE	b. NO. OF
	(1)	(2) MASS	(I)		CONCENTRATIO	(a) MASS	ANALYSES	a CONCEN- TRATION	b. MASS	(I) CONCENTRATION	(2) MASS	ANALYSES
a. Biochemical Oxygen Demand (BOD)												
b. Chemical Oxygen Demand (COD)					·							
c. Total Organic Carbon (TOC)												
d. Total Suspended Solids (TSS)												
e. Ammonia (as N)												
f. Flow	VALUE	<u> </u>	VALUE	·#···	VALUE					VALUE .	<u> </u>	
g. Temperature (winter)	VALUE		VALUE	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	VALUE			°C		VALUE	- '	
h. Temperature (summer)	VALUE		VALUE		VALUE			°C		VALUE		
i, pH	MINIMUM	MAXIMUM	MINIMUM	MAXIMUM				STANDAR	DUNITS		><	

PART 8 - 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 2a for any pollutant 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.

	2. MA	RK 'X'				EFFLUENT				4. UI	STIN		AKE (optional)
ANT AND CAS NO.	A. DE-	D. BE- LIEVED AB- SENT	a. MAXIMUM I	DAILY VALUE	b. MAXIMUM 3	ODAY VALUE	c.LONG TERM	AVRG. VALUE	d NO. OF	a. CONCEN- TRATION	b. MASS	a, LONG AVERAG	S TERM E VALUE	b. NO. OF
(if available)	PRE- SENT	SENT	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(Z) MASS	(1) CONCENTRATION	(2) MASS	YSES	TRATION	D, MA33	(1) CONCENTRATION	(2) MASS	YSES
a. Bromide (24959-67-9)														
b. Chlorine, Total Residual														
c. Color														
d, Fecal Coliform							·							
e. Fluoride (16984-48-8)										,				
f. Nitrate— Nitrite (as N)														

- Page	2 M =	RK 'X'								<u> </u>		T		····
ANT AND				 		FFLUENT					NITS	5. INT	AKE (optional	<i>y</i>
L POLLUT- ANT AND CAS NO.	PRE	LIEVED	a. MAXIMUM E	PAILY VALUE	b. MAXIMUM 30	BAY VALUE	c.LONG TERM	lable)	d. NO. OF			AVERAG	TERM E VALUE	b. NO. O
	SENT	SENT	(1) CONCENTRATION	(2) MASS	CONCENTRATION	(2) MASS	CONCENTRATION	(2) MASS	ANAL- YSES	TRATION	b. MASS	CONCENTRATION	(2) MASS	D. NO. OI ANAL- YSES
g, Nitrogen, Total Organic (ås N)														
h. Oil and Grease						····								
i. Phosphorus (as P), Total (7723-14-0)						*					 			
j. Radioactivity														
(1) Alpha, Total						<i>--</i>								
(2) Beta, Total					·						·			1
(3) Radium, Total														
(4) Radium 226, Total						· · · · · · · · · · · · · · · · · · ·								
c. Sulfate (as SO ₄) (14808-79-8)														
l. Suffide (as 8)						, , , , , , , , , , , , , , , , , , ,								
m, Sulfite (as SO ₃) (14265-45-3)									·					
n. Surfactants														
D. Aluminum, Fotal 7429-90-5)								,		,			***************************************	
o. Barium, Fotal 7440-39-3)														
j. Boron, Fotal 7440-42-8)														
7. Cobalt, Fotal 7440-48-4)														-
. Iron, Total 7439-89-6)									·					
. Magnesi um, 														
Molybdenum, Total 7439-98-7)													· · · · · · · · · · · · · · · · · · ·	
7. Manganese, Total 7439-96-5)														
v. Tin, Total 7440-31-5)														
r. Titanium, Total 7440-32-6)														

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

CONTINUED FROM PAGE 3 OF FORM 2-C

PART C - If you are a primary industry and this outfall contains process wastewater, refer to Table 2c-2 in the instructions to determine which of the GC/MS fractions you must test for. Mark "X" in column 2-a for all such GC/MS fractions that apply to your industry and for ALL toxic metals, cyanides, and total phenols. If you are not required to mark column 2-a (secondary industries, nonprocess wastewater outfalls, and nonrequired GC/MS fractions), mark "X" in column 2-b for each pollutant you know or have reason to believe is present. Mark "X" in column 2-c for each pollutant you believe is absent. If you mark column 2 for any pollutant, you must provide the results of at least one analysis for that pollutant. If you mark column 2b for any pollutant, you must provide the results of at least one analysis for that pollutant. If you mark column 2b for any pollutant, you must provide the results of at least one analysis for greater. If you mark column 2b for acrolein, acrylonitrile, 2,4 dinitrophenol, or 2-methyl-4, 6 dinitrophenol, you must provide the results of at least one analysis for each of these pollutants which you know or have reason to believe that you discharge in concentrations of 100 ppb or greater. Otherwise, for pollutants for which you mark column 2b, you must either submit at least one analysis or briefly describe the reasons the pollutant is expected to be discharged. Note that there are 7 pages to this part; please review each carefully. Complete one table (all 7 pages) for each outfall. See instructions for additional details and requirements.

1. POLLUTANT	2.	MARK	'X'			. 3.	EFFLUENT		 		4. UI	NITS	5. IN	TAKE (opti	onal)
AND CAS NUMBER	ATEST	b. se-	C.BE-	a. MAXIMUM I	DAILY VALUE	b. MAXIMUM 3	O DAY VALUE	c.LONG TERM	AVRG. VALUE	d NO.OF	I a. CONCEN-	1	a. LONG	TERM E VALUE	b. NO. 0
(if available)	RE- QUIR-	D. BE- LIEVED PRE- SENT	AB- SENT	(1) CONCENTRATION	(2) MASS	(I)	(2) MASS	(1) CONCENTRATION	(2) MASS	ANAL- YSES	TRATION	b. MASS	(I) CONCEN-	(z) MASS	ANAL YSES
METALS, CYANID		D TOT	AL PHI												
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. Lead, Total (7439-92-1)											, , , , , , , , , , , , , , , , , , , ,				
8M. Mercury, Total (7439-97-6)															
9M. Nickel, Total (7440-02-0)															
10M. Selenium, Total (7782-49-2)															
11M. Silver, Total (7440-22-4)									•						1
12M. Thailium, Total (7440-28-0)															
13M. Zinc, Total (7440-66-6)															
14M. Cyanide, Total (57-12-5)															
15M. Phenois, Total															
DIOXIN						·		<u> </u>					.	L	<u> </u>

2,3,7,8-Tetra-	
chiorodibenzo-P-	
Dioxin (1764-01-6)	

DESCRIBE RESULTS

1. POLLUTANT AND CAS		MARK		<u> </u>		3.	EFFLUENT				4. UI	NITS	5 IN	TAKE (option	onal)
NUMBER	ATEST	D. BE-	C BE-	a. MAXIMUM	DAILY VALUE	b. MAXIMUM 2	O DAY VALUE	C.LONG TERM	AVRG. VALUE	d NO.OF				TERM EVALUE	b. NO. O
(if available)	QUIN-	SENT	SENT	(I) CONCENTRATION	(2) MASS	(1)	(2) MASS	(1)		ANAL- YSES	TRATION	b. MASS	(1) CONCEN-	(2) MASS	ANAL
GC/MS FRACTION	<u> </u>	LATIL	E COM	POUNDS											
1V. Acrolein (107-02-8)															
2V. Acrylonitrile (107-13-1)			,												
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. Chlorobenzene (108-90-7)															
BV. Chlorodi- bromomethane (124-48-1)															<u> </u>
9V. Chloroethane (75-00-3)															
10V. 2-Chloro- ethylvinyl Ether (110-75-8)															
11V, Chioroform (67-66-3)															
12V. Dichloro- promomethane (75-27-4)	-														
I3V. Dichloro- lifluoromethane 75-71-8)												*****			
14V. 1,1-Dichloro- nthane (75-34-3)															
15V. 1,2-Dichloro- nthane (107-06-2)															
16V. 1,1-Dichloro- thylene (75-35-4)														· ·, ·,,,,	
17V. 1,2-Dichloro- propane (78-87-5)															
18V. 1,3-Dichloro- propylene (542-75-6)						W 1									
9V. Ethylbenzene 100-41-4)				·										-	
20V. Methyl Bromide (74-83-9)															
1V. Methyl Chloride (74-87-3)												 		·	

CONTINUED FROM PAGE V-4 1. POLLUTANT 2. MARK 'X' 4. UNITS 3. EFFLUENT 5. INTAKE (optional) AND CAS NUMBER b. MAXIMUM 30 DAY VALUE | C.LONG TERM AVRG. VALUE | d NO.OF a. LONG TERM VERAGE VALU ATEST D. BE- C. BE- B. MAXIMUM DAILY VALUE
ING LIEVED LIEVED LIEVED (1)
QUIR- PRE- SENT SENT CONCENTRATION (2) MASS b. NO.OF a. CONCEN-TRATION ANAL-YSES b. MASS ANAL-YSES (if available) (1) (I) (1) CONCENTRATION (2) MASS (2) MASS GC/MS FRACTION - VOLATILE COMPOUNDS (continued) 22V. Methylene Chloride (75-09-2) 23V. 1,1,2,2-Tetra-chloroethane (79-34-5)24V. Tetrachioroethylene (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, Trichloroethylene (79-01-6) 30V. Trichlorofluoromethane (75-69-4)31V. Vinyl Chloride (75-01-4) **GC/MS FRACTION — ACID COMPOUNDS** 1A. 2-Chlorophenol (95-57-8)2A. 2,4-Dichlorophenoi (120-83-2) 3A, 2,4-Dimethylphenol (105-67-9) 4A. 4.6-Dinitro-O-Cresol (534-52-1) 5A. 2,4-Dinitrophenol (51-28-5) 6A. 2-Nitrophenol (88-75-5) 7A. 4-Nitrophenol (100-02-7) 8A. P-Chloro-M-Cresol (59-50-7) 9A. Pentachlorophenol (87-86-5) 10A. Phenoi (108-95-2)11A. Z.4.8-Tri-chiasophenoi (86-05-2)

1. POLLUTANT	2.	MARK	'X'			3	EFFLUENT				4. UI	NITS	E 1811	TAKE (and	
ANDCAS		h.e-	C DE-	a. MAXIMUM I	DAILY VALUE		O DAY VALUE	c.LONG TERM	AVRG. VALUE	d. NO. OF		1113		TAKE (option	
(if available) GC/MS FRACTION			C DE-			(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION		ANAL- YSES	a. CONCEN- TRATION	b. MASS	AVERAG	G TERM E VALUE (2) MASS	D. NO.OF ANAL- YSES
1B. Acenaphthene (83-32-9)		JE/.*E	J T.A.	COMPONES	·										
28. Acenaphtylene (208-96-8)						,									
3B. Anthracene (120-12-7)												•			
4B. Benzidine (92-87-5)															
5B. Benzo (a) Anthracene (56-55-3)															
6B. Benzo (a) Pyrene (50-32-8)												·			
7B. 3,4-Benzo- fluoranthene (205-99-2)															
88. Benzo (ghi) Perylene (191-24-2)		,						-							
9B. Benzo (k) Fluorenthene (207-08-9)															
10B. Bis (2-Chloro- ethoxy) Methane (111-91-1)														,	
11B. Bis (2-Chloro- ethyl) Ether (111-44-4)															1
128. Bis <i>(2-Chloroiso-</i> propyl) Ether (102-60-1)															
13B. Bis (2-Ethyl- hexyl) Phthalate (117-81-7)															
148, 4-Bromo- phenyi Phenyi Ether (101-55-3)															
158. Butyl Benzyl Phthelete (85-68-7)															
166, 2-Chloro- nephthalene (91-58-7)															
17B. 4-Chloro- phenyt Phenyl Ether (7005-72-3)															
18B. Chrysene (218-01-9)												-			
198. Dibenzo (a,h) Anthracene (53-70-3)															
208. 1,2-Dichloro- benzene (95-50-1)															
21B. 1,3-Dichloro- benzene (541-73-1)															

1. POLLUTANT		MARK	'x'		***	3.	EFFLUENT				4 111	NITS	5 IN:	TAKE (optic	24.41
AND CAS NUMBER	ATEST.	b. se-	C. DE-	a. MAXIMUM I	PAILY VALUE			CLONG TERM	AVRG. VALUE	d, NO. OF		1113		TARE (OPHO E VALUE	b. NO.OF
		D. SE- LIEVED PRE- SENT			(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	ANAL- YSES	a. CONCEN- TRATION	b. MASS	AVERAG	EVALUE (2) MASS	ANAL- YSES
GC/MS FRACTION	- BA	SE/NEL	JTRAL	. COMPOUNDS	continued)								144104		
22B. 1,4-Dichloro- benzene (106-46-7)															
23B, 3,3-Dichloro- benzidine (91-94-1)			*			, , , , , , , , , , , , , , , , , , , ,									
248, Diethyl Phthalate (84-66-2)							* .								
25B, Dimethyl Phthalate (131-11-3)							,								
26B. DI-N-Butyl Phthalete (84-74-2)							*								
275. 2,4-Dinitro- toluene (121-14-2)															
28B, 2,6-Dinitro- toluene (606-20-2)															
29B. Di-N-Octyl Phthalate (117-84-0)															
30B. 1,2-Diphenyi- hydrazine (as Azo- benzene) (122-66-7)															
31B. Fluoranthene (206-44-0)															
32B. Fluorene (86-73-7)															
338, Hexachlorobenzene (118-74-1)														***************************************	
34B. Hexa- chlorobutadiene (87-68-3)															
35B. Hexachioro- cyclopentadiene (77-47-4)															
36B. Hexachloro- ethane (67-72-1)															:
37B. Indeno (1,2,3-cd) Pyrene (193-39-5)															
38B. Isophorone (78-59-1)															
39B. Naphthalene (91-20-3)															
40B. Nitrobenzene (98-95-3)															
41B. N-Nitro- sodimethylamine (62-75-9)															
42B. N-Nitrosodi- N-Propylamine (621-64-7)															

CONTINUED FROM THE FRONT 1. POLLUTANT 2. MARK 'X' 3. EFFLUENT 4. UNITS 5. INTAKE (optional) AND CAS b. MAXIMUM 30 DAY VALUE | C.LONG TERM AVRG. VALUE | d. NO.OF (if available) RTEST b. SE- C. SE- 8. MAXIMUM DAILY VALUE INC. SENT SENT SENT CONCENTRATION (2) MASS NUMBER a. LONG TERM AVERAGE VALUE b. NO. OF a. CONCEN-(if available) ANAL-YSES b. MASS (1) ANAL-(1) TRATION (I) CONCEN-(2) MASS (2) MASS GC/MS FRACTION - BASE/NEUTRAL COMPOUNDS (continued) 43B. N-Nitrosodiphenylamine (86-30-6) 44B, Phenanthrene (85-01-8) 45B, Pyrene (129-00-0) 46B. 1,2,4 - Tri-chlorobenzene (120-82-1)**GC/MS** FRACTION - PESTICIDES 1P. Aldrin (309-00-2) 2P. Q-BHC (319-84-6) 3P. β-BHC (319-85-7) 4P. γ-BHC (58-89-9) 5Р. δ-ВНС (319-86-8) 6P. Chiordane (57-74-9) 7P. 4,4'-DDT (50-29-3) 8P. 4,4'-DDE (72-55-9) 9P. 4,4'-DDD (72-54-8)10P. Dieldrin (60-57-1) 11P. a-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)16P. Heptachlor (76-44-8)

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

CONTINUED FROM PAGE V-8

1. POLLUTANT AND CAS		MARK					EFFLUENT				4. UI	NITS	5. IN 1	AKE (optio	onal)
NUMBER	ATEST	D, BE- LIEVED PRE- SENT	C DE-	a. MAXIMUM D	AILY VALUE	b. MAXIMUM 3	O DAY VALUE	c.LONG TERM	AVRG. VALUE	d NO.OF ANAL-	a. CONCEN-		B. LONG	TERM	b. NO. O
	ED			CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1)	(2) MASS	YSES	TRATION	b. MASS	(1) CONCEN-	(2) MASS	ANAL- YSES
GC/MS FRACTION	- PES	TICIDE	S (co	rtinued)	•										
17P. Heptachlor Epoxide (1024-57-3)															
18P. PCB-1242 (53469-21-9)												· · · · · · · · · · · · · · · · · · ·			
19P. PCB-1254 (11097-69-1)															
20P. PCB-1221 (11104-28-2)												•			
21P. PCB-1232 (11141-16-5)												***			
22P. PCB-1248 (12672-29-6)								·	-						
23P. PCB-1260 (11096-82-5)															
24P. PCB-1016 (12674-11-2)															
25P. Toxaphene (8001-35-2)															

PAGE V-9