

United States  
Environmental Protection Agency

Office of Water  
Washington, D.C.

EPA Form 3510-2F  
Revised ~~March 2019~~ Month  
2021

Water Permits Division



# Application Form 2F

## Stormwater Discharges Associated with Industrial Activity

### NPDES Permitting Program

**Note:** Complete this form *and* Form 1 if you are a new or existing facility whose discharge is composed entirely of stormwater associated with industrial activity, excluding discharges from construction activity under 40 CFR 122.26(b)(14)(x) or (b)(15). If your discharge is composed of stormwater *and* non-stormwater, you must complete Forms 1 and 2F, *and* you must complete Form 2C, 2D, or 2E, as appropriate. See the “Instructions” inside for further details.

### **Paperwork Reduction Act Notice**

The U.S. Environmental Protection Agency estimates the average burden to collect and complete Form 2F to be 28.1 hours. The 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 about the burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden, to the Chief, Information Policy Branch (PM-223), U.S. Environmental Protection Agency, 1200 Pennsylvania Avenue, NW, Washington, DC 20460, and to the Office of Information and Regulatory Affairs, Office of Management and Budget, 725 17<sup>th</sup> Street, NW, Washington, DC 20503, marked "Attention: Desk Officer for EPA."

## FORM 2F—INSTRUCTIONS

### General Instructions

#### Who Must Complete Form 2F?

You must complete Form 2F if you answered “Yes” to Item 1.2.5 on Form 1—that is, you are a new or existing facility and your discharge is composed entirely of stormwater associated with industrial activity (excluding discharges from construction activity under 40 CFR 122.26(b)(14)(x) or (b)(15)) or composed of stormwater and non-stormwater and are seeking coverage under an *individual* National Pollutant Discharge Elimination System (NPDES) permit. Note that applicants in the latter category must also complete Forms 2C, 2D, or 2E, as applicable. See inset below.

#### Notes

- Form 2F must be completed by any operator of a facility that discharges stormwater associated with industrial activity or the operator of any stormwater discharger 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.
- For discharges composed entirely of stormwater, the operator must complete Form 2F in conjunction with Form 1.
- For discharges of stormwater combined with process wastewater, the operator must complete and submit Form 2F, Form 1, and Form 2C. 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.
- For discharges of stormwater combined with nonprocess wastewater, the operator must complete Form 2F, Form 1, and Form 2E. Nonprocess wastewater includes noncontact cooling water and sanitary wastes that are not regulated by effluent guidelines, except discharges by educational, medical, or commercial chemical laboratories.
- For new discharges of stormwater associated with industrial activity that will be combined with other new non-stormwater discharges, the operator must submit Form 2F, Form 1, and Form 2D.

### Where to File Your Completed Form

Submit your completed application package (Forms 1 and 2F plus any other applicable forms) to your NPDES permitting authority. Consult Exhibit 1–1 of Form 1’s “General Instructions” to identify your NPDES permitting authority.

### Public Availability of Submitted Information

The U.S. Environmental Protection Agency (EPA) will make information from NPDES permit application forms available to the public for inspection and copying upon request. You may not claim any information on Form 2F (or related attachments) as confidential.

You may make a claim of confidentiality for any information that you submit to EPA that goes beyond the information required by Form 2F. Note that NPDES permitting authorities will deny claims for treating any effluent data (estimated or actual) as confidential. If you do not assert a claim of confidentiality at the time you submit your information to the NPDES permitting authority, EPA may make the information available to the public without further notice to you. EPA will handle claims of confidentiality in accordance with the Agency’s business confidentiality regulations in Part 2 of Title 40 of the *Code of Federal Regulations* (CFR).

### Completion of Forms

Print or type in the specified areas only. If you do not have enough space on the form to answer a question, you may continue on additional sheets, as necessary, using a format consistent with the form.

*Provide your EPA Identification Number from the Facility Registry Service, NPDES permit number, and facility name at the top of each page of Form 2F and any attachments. If your facility is new (i.e., not yet constructed), write or type “New Facility” in the space provided for the EPA Identification Number and NPDES permit number. If you do not know your EPA Identification Number, contact your NPDES permitting authority. See Exhibit 1–1 of Form 1’s “General Instructions” for contact information. Additionally, for Tables A through D, provide the applicable outfall number at the top of each page.*

Do not leave any response areas blank unless the form directs you to skip them. If the form directs you to respond to an item that does not apply to your facility or activity, enter “NA” for “not applicable” to show that you considered the item and determined a response was not necessary for your facility.

The NPDES permitting authority will consider your application complete when it and any supplementary material are received and completed according to the authority’s satisfaction. The NPDES permitting authority will judge the completeness of any application independently of the status of any other permit application or permit for the same facility or activity.

### Definitions

The legal definitions of all key terms used in these instructions and Form 2F are in the “Glossary” at the end of the “General Instructions” in Form 1.

FORM 2F—INSTRUCTIONS CONTINUED

**Line-by-Line Instructions**

**EPA Identification Number, NPDES Permit Number, Facility Name, and Outfall Number**

Provide your EPA Identification Number from the Facility Registry Service, NPDES permit number, and facility name at the top of each page of Form 2F and any attachments. If your facility is new (i.e., not yet constructed), write or type "New Facility" in the space provided for the EPA Identification Number on NPDES permit number. If you do not know your EPA Identification Number, contact your NPDES permitting authority. See Exhibit 1-1 of Form 1's "General Instructions" for contact information. Additionally, for Tables A through D, provide the applicable outfall number at the top of each page.

**Section 1. Outfall Location**

**Item 1.1.** Identify each of the facility's outfalls by number. For each outfall, specify the latitude and longitude to the nearest 15 seconds or equivalent decimal degrees (e.g., 38.893829, -77.029289) and name of the receiving water. Latitude and longitude coordinates may be obtained in a variety of ways, including use of hand held devices (e.g., a GPS enabled smartphone), internet mapping tools (e.g., <https://mynasadata.larc.nasa.gov/latitudelongitude-finder/>), geographic information systems (e.g., ArcView), or paper maps from trusted sources (e.g., U.S. Geological Survey or USGS). The location of each outfall (i.e., where the coordinates are collected) shall be the location where collected and concentrated stormwater flows are discharged from the facility such that the first receiving water body into which the discharge flows, either directly or through a separate storm sewer system, is a water of the United States. If you need further guidance in responding to Item 1.1, refer to <http://www.epa.gov/geospatial/latitudelongitude-data-standard>.

Note: In EPA's stormwater permits, "outfalls" are referred to as "discharge points."

Note that space has been provided on the form for six outfalls. If you have more than this number, type your information on a separate sheet of paper in a format similar to that of the form. Make sure you note the EPA Identification Number, NPDES permit number, and facility name at the top of the page and indicate the specific item of the form to which you are responding—Item 1.1 in this case. In other sections of the form, you will be asked to provide information by outfall number (Sections 2, 4, 5, and 7).

**Section 2. Improvements**

**Item 2.1.** Indicate if you are required by any federal, state, or local authority to meet an implementation schedule for constructing, upgrading, or operating wastewater treatment equipment or practices or any other environmental programs that could affect the discharges described in this application. The requirements include, but are not limited to, permit conditions, administrative enforcement orders, enforcement compliance schedule letters, stipulations, court orders, and grant or loan conditions. If yes, continue to Item 2.2. If no, skip to Section 3.

**Item 2.2.** Briefly identify and describe each applicable project (e.g., consent decree, enforcement order, or permit condition). For each condition, specify the affected outfall number(s), the source(s) of the discharge, the required final compliance date, and the

**Section 3. Site Drainage Map**

**Item 3.1** Attach a site drainage map showing the topography of the facility. If a topographic map is unavailable, you may provide an outline of drainage areas served by the outfall(s) covered in the application. The site map must include the following information:

- Each of its drainage and discharge structures.
- The drainage area of each stormwater outfall.
- Paved areas and buildings within the drainage area of each stormwater outfall; each past or present area used for outdoor storage or disposal of significant materials; each existing structural control measure to reduce pollutants in stormwater runoff; materials loading and access areas; and areas where pesticides, herbicides, soil conditioners, and fertilizers are applied.
- Each hazardous waste treatment, storage, or disposal facility (including each area not required to have a Resource Conservation and Recovery Act permit and 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.
- Springs and other surface water bodies that receive stormwater discharges from the facility.

When you have completed and attached your site map to Form 2F, answer "Yes" to Item 3.1.

**Section 4. Pollutant Sources**

**Item 4.1.** List all outfalls discharging stormwater. Provide an estimate of the impervious surface area drained by the outfall. Specify units of measure. (Impervious surfaces are surfaces where stormwater runs off at rates significantly higher than background rates—e.g., predevelopment levels. They include paved areas, building roofs, parking lots, and roadways.)

Provide an estimate of the total surface area (impervious and pervious areas) drained by each outfall (within a mile radius of the facility). You may use the site map developed under Item 3.1 to estimate the total area drained by each outfall. For areas under 5 acres, consult your NPDES permitting authority to determine whether the area should be reported to the nearest tenth of an acre or nearest quarter of an acre.

**Item 4.2.** Provide a narrative description of the following:

- Significant materials that in three years prior to the submittal of this application have been treated, stored, or disposed of in a manner to allow exposure to stormwater.
- 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 stormwater runoff.
- Materials loading and access areas.
- The location, manner, and frequency in which pesticides, herbicides, soil conditioners, and fertilizers are applied.

You should identify your significant materials by chemical name,

projected final compliance date.

**Item 2.3. OPTIONAL ITEM.** Indicate if you have attached any sheets describing any additional water pollution control programs (or other environmental projects that could affect your discharges) that you may now have underway or planned. If you attach additional sheets, indicate in the attachment whether each program is actually underway or is planned, and indicate your actual or planned schedule for construction. Be sure to note your EPA Identification Number, NPDES permit number, and facility name at the top of any attached pages.

**FORM 2F—INSTRUCTIONS CONTINUED**

form (e.g., powder, liquid, etc.), and type of container or treatment unit. Indicate any materials treated, stored, or disposed of together. The term "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 the Comprehensive Environmental Response, Compensation, and Liability Act; any chemical the facility is required to report pursuant to Section 313 of Title III of the Superfund Amendments and Reauthorization Act; and fertilizers; pesticides; and waste products such as ashes, slag, and sludge that have the potential to be released with stormwater discharges.

**Item 4.3.** For each outfall, list the location and type of existing structural and non-structural control measure(s) to reduce pollutants in stormwater runoff. Structural controls include structures that enclose materials handling or storage areas; structures that cover materials; and berms, dikes, or diversion ditches around manufacturing, production, storage, or treatment units and retention ponds. Spill prevention plans, employee training, visual inspections, preventive maintenance, and housekeeping measures are examples of non-structural controls.

Describe the treatment, including the schedule and type of maintenance activities performed, and the ultimate disposal of any solid or fluid wastes other than by discharge. For each structural control identified, indicate the type of treatment the stormwater receives using the codes in Exhibit 2F-1, at the end of the instructions. For each non-structural control identified, indicate "Not Applicable" in the "Codes from Exhibit 2F-1" column.

**Section 5. Non-Stormwater Discharges**

**Item 5.1.** Provide a certification that all outfalls that should contain stormwater discharges associated with industrial activity have been tested or evaluated for the presence of non-stormwater discharges. Tests for such non-stormwater discharges can include smoke tests, fluorometric dye tests, analysis of accurate schematics, and others.

**Item 5.2.** Include a description of the method used, the date of any testing, and the onsite drainage points that were directly observed during a test used to support the certification in Item 5.1. All non-stormwater discharges must be identified in a Form 2C, 2D, or 2E. See "Who Must Complete Form 2F?" above for more information.

**Section 6. Significant Leaks or Spills**

**Item 6.1.** Describe any significant leaks or spills of toxic or

**Tables A, B, C, and D**

**Items 7.2 to 7.17.** These items require you to collect and report data in Tables A through D, at the end of Form 2F, for the parameters and pollutants listed in Exhibits 2F-2, 2F-3, and 2F-4 (at the end of the instructions). The instructions for completing Tables A through D are table-specific, as are the criteria for determining who should complete them.

**Important note:** Read the "General Instructions for Reporting, Sampling, and Analysis" below before completing Items 7.2 to 7.17.

**Item 7.2 and Table A.** All applicants must complete Table A. If the discharge is an existing discharge and your discharge is composed exclusively of stormwater (i.e., no process or nonprocess wastewater) then you only need to provide monitoring data for oil and grease, total phosphorus, total Kjeldahl nitrogen, and total nitrogen. Indicate "NA" for "not applicable" in the columns for all other parameters. Answer "Yes" to Item 7.2 once you have completed this task.

**Item 7.3 and Table B.** Indicate whether the facility is subject to an effluent limitations guideline (ELG) (see 40 CFR Subchapter N to determine which pollutants are limited in ELGs) or if the facility is subject to effluent limitations in an NPDES permit for its process wastewater or stormwater (if the facility is operating under an existing NPDES permit). If yes, continue to Item 7.4. If no, skip to Item 7.5.

Note: Stormwater discharges from certain industrial sources or activities have specific ELGs for which they must comply. These *stormwater-specific* ELGs include:

<b>Regulated Discharge</b>	<b>40 CFR Section</b>
Discharges resulting from spraydown or intentional wetting of logs at wet deck storage areas	Part 429, Subpart I
Runoff from phosphate fertilizer manufacturing facilities that comes into contact with any raw materials, finished product, byproducts or waste products (SIC 2874)	Part 418, Subpart A
Runoff from asphalt emulsion facilities	Part 443, Subpart A
Runoff from material storage piles at cement manufacturing facilities	Part 411, Subpart C
Mine dewatering discharges at crushed stone, construction sand and gravel, or industrial sand mining facilities	Part 436, Subparts B, C, and D

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hazardous pollutants at the facility within the three years prior to the submittal of this application. Include the approximate date and location of the spill or leak and the type and amount of material released.

**Section 7. Discharge Information**

**Item 7.1.** Answer whether you are a new source or new discharge. Contact your NPDES permitting authority to determine if you are a new source or new discharge.

Runoff from hazardous waste and non-hazardous waste landfills	Part 445, Subparts A and B
Runoff from coal storage piles at steam electric generating facilities	Part 423
Runoff containing urea from airfield pavement deicing at existing and new primary airports with 1,000 or more annual non-propeller aircraft departures	Part 449

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**Item 7.4.** In Table B, list all pollutants that are limited in an ELG to which the facility is subject and all pollutants listed in the facility's NPDES permit for its process wastewater (if the facility is operating under an existing NPDES permit) and provide quantitative data for each pollutant (provide actual data for existing dischargers and estimated data for new sources and new dischargers). If a pollutant in Exhibits 2F-2 or 2F-3 is indirectly limited by an ELG through an indicator (e.g., use of total suspended solids as an indicator to control the discharge of iron and aluminum), you must provide data for the pollutant in Table B. Complete one table for each outfall. Answer "Yes" to Item 7.4 once you have completed this task.

FORM 2F—INSTRUCTIONS CONTINUED

**Item 7.5 and Table C.** Table C requires you to address the pollutants in Exhibits 2F–2, 2F–3, and 2F–4 for each outfall. Pollutants in each of these exhibits are addressed differently.

Indicate whether you know or have reason to believe any pollutants in Exhibit 2F–2 are present in the discharge. If yes, continue to Item 7.6. If no, skip to Item 7.7.

**Item 7.6.** For each outfall, list all pollutants in Exhibit 2F–2 that you know or have reason to believe are present in the discharge in Table C (except pollutants previously listed in Table B that are limited directly or indirectly by an ELG) and either report quantitative data or briefly describe the reasons the pollutant is expected to be discharged. Answer “Yes” to Item 7.6 once you have completed this task.

**Item 7.7.** This item asks if you qualify as a “small business.” If so, you are exempt from the reporting requirements for the organic toxic pollutants listed in Exhibit 2F–3.

You can qualify as a small business in two ways: (1) 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; (2) 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 that is the source of the discharge. The data should not be limited to production or sales for the process or processes that contribute to the discharge, unless those are the only processes at your 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 online from the U.S. Department of Commerce, Bureau of Economic Analysis at <http://www.bea.gov/national/pdf/SNTables.pdf>.

If you qualify as a small business according to the criteria above, answer “Yes” to Item 7.7 and skip to Item 7.18. Otherwise, answer “No” and continue to Item 7.8.

**Item 7.8.** Indicate whether you know or have reason to believe any pollutants in Exhibit 2F–3 are present in the discharge. If yes, continue to Item 7.9. If no, skip to Item 7.10.

**Item 7.9.** For each outfall, list all pollutants in Exhibit 2F–3 that you know or have reason to believe are present in the discharge in Table C (except pollutants previously listed in Table B). Answer “Yes” to Item 7.9 once you have completed this task.

**Item 7.10.** Indicate whether you expect any of the pollutants from Exhibit 2F–3 to be discharged in concentrations of 10 parts per billion (ppb) or greater. If yes, continue to Item 7.11. If no, skip to Item 7.12.

**Item 7.11.** Provide quantitative data in Table C for those pollutants in Exhibit 2F–3 that you expect to be discharged in concentrations of 10 ppb or greater (provide actual data for existing dischargers and estimated data for new sources and new dischargers). Answer “Yes” to Item 7.11 once you have completed this task.

**Item 7.12.** Indicate whether you expect acrolein, acrylonitrile, 2,4-dinitrophenol, or 2-methyl-4,6-dinitrophenol to be discharged in concentrations of 100 ppb or greater. If yes, continue to Item 7.13. If no, skip to Item 7.14.

**Item 7.13.** Provide quantitative data in Table C for the pollutants identified in Item 7.12 that you expect to be discharged in concentrations of 100 ppb or greater (provide actual data for existing dischargers and estimated data for new sources and new dischargers). Answer “Yes” to Item 7.13 once you have completed this task.

**Item 7.14.** For any pollutants you expect to be present in the discharge at concentrations less than 10 ppb (or less than 100 ppb for the above four pollutants), either submit quantitative data or briefly describe the reasons the pollutant is expected to be discharged in Table C. Answer “Yes” to Item 7.14 once you have completed this task.

**Item 7.15.** Indicate whether you know or have reason to believe any pollutants in Exhibit 2F–4 are present in the discharge. If yes, continue to Item 7.16. If no, skip to Item 7.17.

**Item 7.16.** For each outfall, list any pollutant in Exhibit 2F–4 that you know or believe to be present in the discharge in Table C and explain why you believe it to be present. No analysis is required, but if you have analytical data, you must report it. Answer “Yes” to Item 7.16 once you have completed this task.

**Note:** Under 40 CFR 117.12(a)(2), certain discharges of hazardous substances (listed in Exhibit 2F-5) may be exempted from the requirements of CWA Section 311, which establishes reporting requirements, civil penalties, and liability for cleanup costs for spills of oil and hazardous substances. A discharge of a particular substance can 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. If you would like to apply for an exemption from the requirements of CWA Section 311, attach additional sheets of paper to your application, setting forth the following information:

1. The substance and the amount of each substance that might be discharged.
2. The origin and source of the discharge of the substance.
3. The treatment 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 that 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) or contact your NPDES permitting authority for further information on exclusions from CWA Section 311.

**Item 7.17 and Table D.** Provide data for the storm event(s) that resulted in the maximum daily discharges for the flow weighted composite sample in Table D. If sampling is conducted during more than one storm event, you only need to report the information

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**FORM 2F—INSTRUCTIONS CONTINUED**

requested on Table D for the storm event(s) that resulted in any maximum pollutant concentration reported on Tables A through C.

Provide flow measurements or estimates of the flow rate, as well as 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 that 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. Answer "Yes" to Item 7.17 once you have completed this task.

**Used or Manufactured Toxics**

**Item 7.18.** Review Exhibits 2F–2 through 2F–4 and determine if you currently use or manufacture any of the pollutants listed as intermediate or final products or byproducts. If so, answer "Yes."

You should also answer "Yes" if you know or have reason to believe that 2,3,7,8-tetrachloro-dibenzo-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-trichlorophenyl) phosphorothioate (Ronnel); 2,4,5-trichlorophenol (TCP); or hexachlorophene (HCP). If your answer to Item 7.18 is "No," skip to Section 8.

**Item 7.19.** List all of the toxic pollutants identified under Item 7.18, including TCDD. Note that the NPDES permitting authority may waive or modify the requirement if you demonstrate that it would be unduly burdensome to identify each toxic pollutant and the NPDES permitting authority has adequate information to issue your permit. You may not claim any information submitted in response to Item 7.18 as confidential; however, you do not have to distinguish between use or production of the pollutants or list the amounts.

**Section 8. Biological Toxicity Testing Data**

**Item 8.1.** Answer whether you know of or have reason to believe that biological toxicity testing has been conducted of your wastewater treatment, including engineering reports or pilot plant studies. If no, skip to Section 9. Otherwise, continue.

**Item 8.2.** List any tests of which you are aware and their purposes.

**Section 9. Contract Analysis Information**

**Item 9.1.** Indicate if any of the analyses performed in Section 7 were performed by a contract laboratory or consulting firm. If no, skip to Section 10. If yes, continue to Item 9.2.

**Item 9.2.** Provide the name, address, phone number, and pollutants analyzed by the laboratory or consulting firm(s) in the spaces provided.

**Section 10. Checklist and Certification Statement**

**Item 10.1.** Review the checklist provided on the application. In Column 1, mark the sections of Form 2F that you have completed and are submitting with your application. For each section in Column 2, indicate whether you are submitting attachments.

**Item 10.2.** The Clean Water Act (CWA) provides for severe penalties for submitting false information on this application form. Section 309(c)(2) of the CWA 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 six months or both."

**FEDERAL REGULATIONS AT 40 CFR 122.22 REQUIRE THIS APPLICATION TO BE SIGNED AS FOLLOWS:**

- A. For a corporation, by a responsible corporate officer. For the purpose of this section, a responsible corporate officer means: (1) 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 (2) the manager of one or more manufacturing, production, or operating facilities, provided the manager is authorized to make management decisions which govern the operation of the regulated facility including having the explicit or implicit duty of making major capital investment recommendations, and initiating and directing other comprehensive measures to assure long term environmental compliance with environmental laws and regulations; the manager can ensure that the necessary systems are established or actions taken to gather complete and accurate information for permit application requirements; and where 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.
- C. For a municipality, state, federal, or other public facility, by either a principal executive officer or ranking elected official. For purposes of this section, a principal executive officer of a federal agency includes: (1) The chief executive officer of the agency, or (2) a senior executive officer having responsibility for the overall operations of a principal geographic unit of the agency (e.g., Regional Administrators of EPA).

**END**

**Submit your completed Form 1, Form 2F, and all associated attachments (and any other required NPDES application forms) to your NPDES permitting authority.**

**General Instructions for Reporting, Sampling, and Analysis**

**Commented [AS1]:** Leave here or move before Section 7?

**Important note:** Read these instructions before completing Tables A through C and Section 7 of Form 2F.

**General Items**

Complete the applicable tables for each outfall at your facility. Be sure to note the EPA Identification Number, NPDES permit number, facility name, and applicable outfall number at the top of each table page and any associated attachments.

You may report some or all of the required data by attaching separate sheets of paper instead of completing Tables A through C for each of your outfalls so long as the sheets contain all of the required information and are similar in format to Tables A through C. For example, you may be able to print a report in a compatible format from the data system used in your gas chromatography/mass spectrometry (GC/MS) analysis completed under Table B.

If you are an existing discharger, you are required to report *actual* quantitative data. See "Use of Historic Data" below for use of historic data. If you are a new source or discharge, you may supply *estimated* data along with the source of each estimate. If you have quantitative data available, however, you must provide it. Base estimates on available, in-house or contractor engineering reports, or any other studies performed on the proposed facility. Use the following codes to report your source information in the "Source of Information" column:

Data Source	Code
Engineering reports	1
Actual data from pilot plants	1
Estimates from other engineering reports	2
Data from other similar plants	3
Best professional estimates	4
Others	5 and specify on the table

No later than 24 months after your facility commences to discharge, you must complete and submit sampling and analysis data for the pollutants and parameters in Tables A through C. However, you need not report results for tests you have already performed and reported under the discharge monitoring requirements of your NPDES permit.

Table A requires you to report at least one analysis for each pollutant listed. Tables B and C require you to report analytical data in two ways. For some pollutants addressed in Tables 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 Tables 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 Items 7.2 through 7.17 of the instructions for completing Tables A through C.) Base your determination that a pollutant is/will be present in your discharge on your knowledge of the facility's raw materials, material management practices, maintenance chemicals, history of

byproducts, and any previous analyses known to you of your effluent or similar effluent.

**Sampling**

The collection of the samples for the reported analyses should be supervised by a person experienced in performing sampling of industrial wastewater or stormwater discharges. You may contact your NPDES permitting authority for detailed guidance on sampling techniques and for answers to specific questions. See Exhibit 1-1 of Form 1 for contact information. Any specific requirements in the analytical methods—for example, sample containers, sample preservation, holding times, and the collection of duplicate samples—must be followed.

The time when you sample should be representative of your normal operation, to the extent feasible, with all processes that contribute wastewater in normal operation, and with your treatment system operating properly with no system upsets. Collect samples from the center of the flow channel, where turbulence is at a maximum, at a site specified in your present NPDES permit, or at any site adequate for the collection of a representative sample.

Grab samples must be taken in the first 30 minutes of discharge (or as soon thereafter as practicable) for pH, temperature, cyanide, total phenols, residual chlorine, oil and grease, fecal coliform (including *E. coli*) and enterococci (previously known as fecal streptococcus at 40 CFR 122.26(d)(2)(iii)(A)(3)), and volatile organic compounds. 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 must 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 must be taken during the first 30 minutes of the discharge (or as soon thereafter as practicable), and a flow-weighted composite must 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 30 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

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spills and releases, intermediate and final products and

**General Instructions for Reporting, Sampling, and Analysis Continued**

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 15 minutes between aliquot collections. The composite must be flow proportional; the time interval between either each aliquot or the volume of each aliquot must be proportional to either the stream (effluent) flow at the time of sampling or the total stream (effluent) flow since the collection of the previous aliquot. Aliquots may be collected manually or automatically. Where GC/MS volatile organic analysis is required, aliquots must be combined in the laboratory immediately before analysis. Only one analysis for the composite sample is required.

**Use of Historical Data**

Existing data may be used, if available, in lieu of sampling conducted solely for the purposes of this application, provided it is representative of the present discharge and was collected within 3 years of the application due date. If you sample for a listed pollutant on a monthly or more frequent basis, summarize the data collected within one year of the application for the pollutant(s) at issue.

Among the factors that would cause the data to be unrepresentative are significant changes in production level; changes in raw materials, processes, or final products; and changes in stormwater treatment. The NPDES permitting authority may request additional information, including current quantitative data, if they determine it to be necessary to assess your discharges. The NPDES permitting authority 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 melt or rainfall), protocols for collecting samples under 40 CFR 136, and additional time for submitting data on a case-by-case basis.

**Reporting**

Report sampling results for all pollutants in Tables A through C as concentration *and* mass, with the exception of flow, temperature, pH, color, and fecal coliform organisms.

Flow, temperature, pH, color, and fecal coliform organisms must be reported as million gallons per day (mgd), degrees Celsius (°C), standard units, color units, and most probable number per 100 milliliters (MPN/100 mL), respectively. Use the following abbreviations in the columns requiring "units" in Tables A through C.

Concentration	Mass
ppm = parts per million	lbs = pounds
mg/L = milligrams per liter	ton = tons (English tons)
ppb = parts per billion	mg = milligrams
µg/L = micrograms per liter	g = grams
MPN = most probable number per 100 milliliters	kg = kilograms
	T = tonnes (metric tons)

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

- An applicable, promulgated ELG specifies the limitation for the metal in dissolved, valent, or total form;
- All approved analytical methods for the metal inherently measure only its dissolved form (e.g., hexavalent chromium); or
- The NPDES permitting authority has determined that in establishing case-by-case limitations it is necessary to express the limitations of 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 Daily Discharge" columns in the tables and enter "1" in the "Number of Storm Events Sampled" column. The NPDES permitting authority may require you to conduct additional 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 analysis.

The "Average Daily Discharge" column on Tables A to C is *not* compulsory but should be filled out if data are available. To complete the "Average Daily Discharge" column, determine the average of all values within the last year and report the concentration and mass. Report the total number of storm events sampled under the "Number of Storm Events Sampled" column.

**Substantially Identical Outfalls**

If you have two or more substantially identical outfalls, you may request permission from your NPDES permitting authority to sample and analyze only one outfall and submit the results of the analysis for all substantially identical outfalls. If your request is granted, submit the following information on a separate sheet attached to the application form: the identity of the outfall you did test and an explanation of how it is substantially identical to the outfall(s) that you did not test.

**Analysis**

Except as specified below, all required quantitative data shall be collected in accordance with sufficiently sensitive analytical methods approved under 40 CFR 136 or required under 40 CFR chapter I, subchapter N or O. A method is "sufficiently sensitive" when:

- The method minimum level (ML) is at or below the level of the applicable water quality criterion for the measured pollutant or pollutant parameter.
- The method ML is above the water quality criterion, but the amount of the pollutant or pollutant parameter in the facility's discharge is high enough that the method detects and quantifies the level of the pollutant or pollutant parameter in the discharge.

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<b>General Instructions for Reporting, Sampling, and Analysis Continued</b>	
<ul style="list-style-type: none"> <li>The method has the lowest ML of the analytical methods approved under 40 CFR 136 or required under 40 CFR chapter I, subchapter N or O, for the measured pollutant or pollutant parameter.</li> </ul> <p>Consistent with 40 CFR 136, you may provide matrix- or sample-specific MLs rather than the published levels. Further, where you can demonstrate that, despite a good faith effort to use a method that would otherwise meet the definition of "sufficiently sensitive," the analytical results are not consistent with the quality assurance (QA)/quality control (QC) specifications for that method, then the NPDES permitting authority may determine that the method is not performing adequately and the NPDES permitting authority should</p>	<p>select a different method from the remaining EPA-approved methods that is sufficiently sensitive consistent with 40 CFR 122.21(e)(3)(i). Where no other EPA-approved methods exist, you must select a method consistent with 40 CFR 122.21(e)(3)(ii).</p> <p>When there is no analytical method that has been approved under 40 CFR 136; required under 40 CFR chapter I, subchapter N or O, and is not otherwise required by the NPDES permitting authority, you may use any suitable method but shall provide a description of the method. When selecting a suitable method, other factors such as a method's precision, accuracy, or resolution, may be considered when assessing the performance of the method.</p>

**Exhibit 2F-1. Codes for Treatment Units and Disposal of Wastes Not Discharged**

**1. PHYSICAL TREATMENT PROCESSES**

- |   |  |
|---|--|
| 1-A ..... Ammonia stripping               | 1-M ..... Grit removal                               |
| 1-B ..... Dialysis                        | 1-N ..... Microstraining                             |
| 1-C ..... Diatomaceous earth filtration   | 1-O ..... Mixing                                     |
| 1-D ..... Distillation                    | 1-P ..... Moving bed filters                         |
| 1-E ..... Electro dialysis                | 1-Q ..... Multimedia filtration                      |
| 1-F ..... Evaporation                     | 1-R ..... Rapid sand filtration                      |
| 1-G ..... Flocculation                    | 1-S ..... Reverse osmosis ( <i>hyperfiltration</i> ) |
| 1-H ..... Flotation                       | 1-T ..... Screening                                  |
| 1-I ..... Foam fractionation              | 1-U ..... Sedimentation ( <i>settling</i> )          |
| 1-J ..... Freezing                        | 1-V ..... Slow sand filtration                       |
| 1-K ..... Gas-phase separation            | 1-W ..... Solvent extraction                         |
| 1-L ..... Grinding ( <i>comminutors</i> ) | 1-X ..... Sorption                                   |

**2. CHEMICAL TREATMENT PROCESSES**

- |  |   |
|--|---|
| 2-A ..... Carbon adsorption                | 2-G ..... Disinfection ( <i>ozone</i> ) |
| 2-B ..... Chemical oxidation               | 2-H ..... Disinfection ( <i>other</i> ) |
| 2-C ..... Chemical precipitation           | 2-I ..... Electrochemical treatment     |
| 2-D ..... Coagulation                      | 2-J ..... Ion exchange                  |
| 2-E ..... Dechlorination                   | 2-K ..... Neutralization                |
| 2-F ..... Disinfection ( <i>chlorine</i> ) | 2-L ..... Reduction                     |

**3. BIOLOGICAL TREATMENT PROCESSES**

- |   |   |
|---|---|
| 3-A ..... Activated sludge              | 3-E ..... Pre-aeration                      |
| 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              |

**4. WASTEWATER DISPOSAL PROCESSES**

- |   |   |
|---|---|
| 4-A ..... Discharge to surface Water      | 4-C ..... Reuse/recycle of treated effluent |
| 4-B ..... Ocean discharge through outfall | 4-D ..... Underground injection             |

**5. SLUDGE TREATMENT AND DISPOSAL PROCESSES**

- |                                 |                               |
|---------------------------------|-------------------------------|
| 5-A ..... Aerobic digestion     | 5-M ..... Heat drying         |
| 5-B ..... Anaerobic digestion   | 5-N ..... Heat treatment      |
| 5-C ..... Belt filtration       | 5-O ..... Incineration        |
| 5-D ..... Centrifugation        | 5-P ..... Land application    |
| 5-E ..... Chemical conditioning | 5-Q ..... Landfill            |
| 5-F ..... Chlorine treatment    | 5-R ..... Pressure filtration |
| 5-G ..... Composting            | 5-S ..... Pyrolysis           |
| 5-H ..... Drying beds           | 5-T ..... Sludge lagoons      |
| 5-I ..... Elutriation           | 5-U ..... Vacuum filtration   |
| 5-J ..... Flotation thickening  | 5-V ..... Vibration           |
| 5-K ..... Freezing              | 5-W ..... Wet oxidation       |
| 5-L ..... Gravity thickening    |                               |

**Exhibit 2F-2. Conventional and Nonconventional Pollutants (40 CFR 122.21, Appendix D, Table IV)**

Bromide  
Chlorine, total residual  
Color  
Fecal coliform  
Fluoride  
Nitrate-nitrite  
Nitrogen, total organic (as N)  
Oil and grease  
Phosphorus (as P), total  
Radioactivity (as alpha, total; beta, total; radium, total; and radium 226, total)  
Sulfate (as SO<sub>4</sub>)  
Sulfide (as S)  
Sulfite (as SO<sub>3</sub>)  
Surfactants  
Aluminum, total  
Barium, total  
Boron, total  
Cobalt, total  
Iron, total  
Magnesium, total  
Molybdenum, total  
Manganese, total  
Tin, total  
Titanium, total

Exhibit 2F-3. Toxic Pollutants (40 CFR 122.21, Appendix D, Tables II and III)

**Toxic Pollutants and Total Phenol**

Antimony, total	Copper, total	Silver, total
Arsenic, total	Lead, total	Thallium, total
Beryllium, total	Mercury, total	Zinc, total
Cadmium, total	Nickel, total	Cyanide, total
Chromium, total	Selenium, total	Phenols, total

**GC/MS Fraction—Volatile Compounds**

Acrolein	Dichlorobromomethane	1,1,2,2-tetrachloroethane
Acrylonitrile	1,1-dichloroethane	Tetrachloroethylene
Benzene	1,2-dichloroethane	Toluene
Bromoform	1,1-dichloroethylene	1,2-trans-dichloroethylene
Carbon tetrachloride	1,2-dichloropropane	1,1,1-trichloroethane
Chlorobenzene	1,3-dichloropropylene	1,1,2-trichloroethane
Chlorodibromomethane	Ethylbenzene	Trichloroethylene
Chloroethane	Methyl bromide	Vinyl chloride
2-Chloroethylvinyl ether	Methyl chloride	
Chloroform	Methylene chloride	

**GC/MS Fraction—Acid Compounds**

2-chlorophenol	2,4-dinitrophenol	Pentachlorophenol
2,4-dichlorophenol	2-nitrophenol	Phenol
2,4-dimethylphenol	4-nitrophenol	2,4,6-trichlorophenol
4,6-dinitro-o-cresol	P-chloro-m-cresol	

**GC/MS Fraction—Base/Neutral Compounds**

Acenaphthene	4-chlorophenyl phenyl ether	Hexachlorobenzene
Acenaphthylene	Chrysene	Hexachlorobutadiene
Anthracene	Dibenzo (a,h) anthracene	Hexachlorocyclopentadiene
Benzidine	1,2-dichlorobenzene	Hexachloroethane
Benzo (a) anthracene	1,3-dichlorobenzene	Indeno (1,2,3-cd) pyrene
Benzo (a) pyrene	1,4-dichlorobenzene	Isophorone
3,4-benzofluoranthene	3,3-dichlorobenzidine	Naphthalene
Benzo (ghi) perylene	Diethyl phthalate	Nitrobenzene
Benzo (k) fluoranthene	Dimethyl phthalate	N-nitrosodimethylamine
Bis (2-chloroethoxy) methane	Di-n-butyl phthalate	N-nitrosodi-n-propylamine
Bis (2-chloroethyl) ether	2,4-dinitrotoluene	N-nitrosodiphenylamine
Bis (2-chloroisopropyl) ether	2,6-dinitrotoluene	Phenanthrene
Bis (2-ethylhexyl) phthalate	Di-n-octyl phthalate	Pyrene
4-bromophenyl phenyl ether	1,2-diphenylhydrazine (as azobenzene)	1,2,4-trichlorobenzene
Butyl benzyl phthalate	Fluoranthene	
2-chloronaphthalene	Fluorene	

**GC/MS Fraction—Pesticides**

Aldrin	Dieldrin	PCB-1254
α-BHC	α-endosulfan	PCB-1221
β-BHC	β-endosulfan	PCB-1232
γ-BHC	Endosulfan sulfate	PCB-1248
δ-BHC	Endrin	PCB-1260
Chlordane	Endrin aldehyde	PCB-1016
4,4'-DDT	Heptachlor	Toxaphene
4,4'-DDE	Heptachlor epoxide	
4,4'-DDD	PCB-1242	



Exhibit 2F-4. Certain Hazardous Substances and Asbestos (40 CFR 122.21, Appendix D, Table V)


Toxic Pollutant		
Asbestos	Hazardous Substances	
Acetaldehyde	Dinitrobenzene	Naphthenic acid
Allyl alcohol	Diquat	Nitrotoluene
Allyl chloride	Disulfoton	Parathion
Amyl acetate	Diuron	Phenolsulfonate
Aniline	Epichlorohydrin	Phosgene
Benzonitrile	Ethion	Propargite
Benzyl chloride	Ethylene diamine	Propylene oxide
Butyl acetate	Ethylene dibromide	Pyrethrins
Butylamine	Formaldehyde	Quinoline
Captan	Furfural	Resorcinol
Carbaryl	Guthion	Strontium
Carbofuran	Isoprene	Strychnine
Carbon disulfide	Isopropanolamine	Styrene
Chlorpyrifos	Kelthane	2,4,5-T (2,4,5-trichlorophenoxyacetic acid)
Coumaphos	Kepone	TDE (tetrachlorodiphenyl ethane)
Cresol	Malathion	2,4,5-TP [2-(2,4,5-trichlorophenoxy) propanoic acid]
Crotonaldehyde	Mercaptodimethur	Trichlorofon
Cyclohexane	Methoxychlor	Triethanolamine
2,4-D (2,4-dichlorophenoxyacetic acid)	Methyl mercaptan	Triethylamine
Diazinon	Methyl methacrylate	Trimethylamine
Dicamba	Methyl parathion	Uranium
Dichlobenil	Mevinphos	Vanadium
Dichlone	Mexacarbate	Vinyl acetate
2,2-dichloropropionic acid	Monoethyl amine	Xylene
Dichlorvos	Monomethyl amine	Xylenol
Diethyl amine	Naled	Zirconium
Dimethyl amine		

### Exhibit 2F-5. Hazardous Substances

1. Acetaldehyde	73. Captan	144. Ferrous sulfate
2. Acetic acid	74. Carbaryl	145. Formaldehyde
3. Acetic anhydride	75. Carbofuran	146. Formic acid
4. Acetone cyanohydrin	76. Carbon disulfide	147. Fumaric acid
5. Acetyl bromide	77. Carbon tetrachloride	148. Furfural
6. Acetyl chloride	78. Chlordane	149. Guthion
7. Acrolein	79. Chlorine	150. Heptachlor
8. Acrylonitrile	80. Chlorobenzene	151. Hexachlorocyclopentadiene
9. Adipic acid	81. Chloroform	152. Hydrochloric acid
10. Aldrin	82. Chloropyrifos	153. Hydrofluoric acid
11. Allyl alcohol	83. Chlorosulfonic acid	154. Hydrogen cyanide
12. Allyl chloride	84. Chromic acetate	155. Hydrogen sulfide
13. Aluminum sulfate	85. Chromic acid	156. Isoprene
14. Ammonia	86. Chromic sulfate	157. Isopropanolamine dodecylbenzenesulfonate
15. Ammonium acetate	87. Chromous chloride	158. Kelthane
16. Ammonium benzoate	88. Cobaltous bromide	159. Kepone
17. Ammonium bicarbonate	89. Cobaltous formate	160. Lead acetate
18. Ammonium bichromate	90. Cobaltous sulfamate	161. Lead arsenate
19. Ammonium bifluoride	91. Coumaphos	162. Lead chloride
20. Ammonium bisulfite	92. Cresol	163. Lead fluoroborate
21. Ammonium carbamate	93. Crotonaldehyde	164. Lead fluorite
22. Ammonium carbonate	94. Cupric acetate	165. Lead iodide
23. Ammonium chloride	95. Cupric acetoarsenite	166. Lead nitrate
24. Ammonium chromate	96. Cupric chloride	167. Lead stearate
25. Ammonium citrate	97. Cupric nitrate	168. Lead sulfate
26. Ammonium fluoroborate	98. Cupric oxalate	169. Lead sulfide
27. Ammonium fluoride	99. Cupric sulfate	170. Lead thiocyanate
28. Ammonium hydroxide	100. Cupric sulfate ammoniated	171. Lindane
29. Ammonium oxalate	101. Cupric tartrate	172. Lithium chromate
30. Ammonium silicofluoride	102. Cyanogen chloride	173. Malathion
31. Ammonium sulfamate	103. Cyclohexane	174. Maleic acid
32. Ammonium sulfide	104. 2,4-D acid (2,4-dichlorophenoxyacetic acid)	175. Maleic anhydride
33. Ammonium sulfite	105. 2,4-D esters (2,4-dichlorophenoxyacetic acid esters)	176. Mercaptodimethur
34. Ammonium tartrate	106. DDT	177. Mercuric cyanide
35. Ammonium thiocyanate	107. Diazinon	178. Mercuric nitrate
36. Ammonium thiosulfate	108. Dicamba	179. Mercuric sulfate
37. Amyl acetate	109. Dichlobenil	180. Mercuric thiocyanate
38. Aniline	110. Dichlone	181. Mercurous nitrate
39. Antimony pentachloride	111. Dichlorobenzene	182. Methoxychlor
40. Antimony potassium tartrate	112. Dichloropropane	183. Methyl mercaptan
41. Antimony tribromide	113. Dichloropropene	184. Methyl methacrylate
42. Antimony trichloride	114. Dichloropropene-dichloropropane mix	185. Methyl parathion
43. Antimony trifluoride	115. 2,2-dichloropropionic acid	186. Mevinphos
44. Antimony trioxide	116. Dichlorvos	187. Mexacarbate
45. Arsenic disulfide	117. Dieldrin	188. Monoethylamine
46. Arsenic pentoxide	118. Diethylamine	189. Monomethylamine
47. Arsenic trichloride	119. Dimethylamine	190. Naled
48. Arsenic trioxide	120. Dinitrobenzene	191. Naphthalene
49. Arsenic trisulfide	121. Dinitrophenol	192. Naphthenic acid
50. Barium cyanide	122. Dinitrotoluene	193. Nickel ammonium sulfate
51. Benzene	123. Diquat	194. Nickel chloride
52. Benzoic acid	124. Disulfoton	195. Nickel hydroxide
53. Benzointrile	125. Diuron	196. Nickel nitrate
54. Benzoyl chloride	126. Dodecylbenzenesulfonic acid	197. Nickel sulfate
55. Benzyl chloride	127. Endosulfan	198. Nitric acid
56. Beryllium chloride	128. Endrin	199. Nitrobenzene
57. Beryllium fluoride	129. Epichlorohydrin	200. Nitrogen dioxide
58. Beryllium nitrate	130. Ethion	201. Nitrophenol
59. Butylacetate	131. Ethylbenzene	202. Nitrotoluene
60. n-butylphthalate	132. Ethylenediamine	203. Paraformaldehyde
61. Butylamine	133. Ethylene dibromide	204. Parathion
62. Butyric acid	134. Ethylene dichloride	205. Pentachlorophenol
63. Cadmium acetate	135. Ethylene diaminetetracetic acid (EDTA)	206. Phenol
64. Cadmium bromide	136. Ferric ammonium citrate	207. Phosgene
65. Cadmium chloride	137. Ferric ammonium oxalate	208. Phosphoric acid
66. Calcium arsenate	138. Ferric chloride	209. Phosphorus
67. Calcium arsenite	139. Ferric fluoride	210. Phosphorus oxychloride
68. Calcium carbide	140. Ferric nitrate	211. Phosphorus pentasulfide
69. Calcium chromate	141. Ferric sulfate	212. Phosphorus trichloride
70. Calcium cyanide	142. Ferrous ammonium sulfate	213. Polychlorinated biphenyls (PCB)
71. Calcium dodecylbenzenesulfonate	143. Ferrous chloride	214. Potassium arsenate
72. Calcium hypochlorite		215. Potassium arsenite

#### Exhibit 2F-5. Hazardous Substances

216. Potassium bichromate	245. Sodium phosphate (dibasic)	271. Uranyl acetate
217. Potassium chromate	246. Sodium phosphate (tribasic)	272. Uranyl nitrate
218. Potassium cyanide	247. Sodium selenite	273. Vanadium pentoxide
219. Potassium hydroxide	248. Strontium chromate	274. Vanadyl sulfate
220. Potassium permanganate	249. Strychnine	275. Vinyl acetate
221. Propargite	250. Styrene	276. Vinylidene chloride
222. Propionic acid	251. Sulfuric acid	277. Xylene
223. Propionic anhydride	252. Sulfur monochloride	278. Xylenol
224. Propylene oxide	253. 2,4,5-T acid (2,4,5-trichlorophenoxyacetic acid)	279. Zinc acetate
225. Pyrethrins	254. 2,4,5-T amines (2,4,5-trichlorophenoxy acetic acid amines)	280. Zinc ammonium chloride
226. Quinoline	255. 2,4,5-T esters (2,4,5-trichlorophenoxy acetic acid esters)	281. Zinc borate
227. Resorcinol	256. 2,4,5-T salts (2,4,5-trichlorophenoxy acetic acid salts)	282. Zinc bromide
228. Selenium oxide	257. 2,4,5-TP acid (2,4,5-trichlorophenoxy propanoic acid)	283. Zinc carbonate
229. Silver nitrate	258. 2,4,5-TP acid esters (2,4,5-trichlorophenoxy propanoic acid esters)	284. Zinc chloride
230. Sodium	259. TDE (tetrachlorodiphenyl ethane)	285. Zinc cyanide
231. Sodium arsenate	260. Tetraethyl lead	286. Zinc fluoride
232. Sodium arsenite	261. Tetraethyl pyrophosphate	287. Zinc formate
233. Sodium bichromate	262. Thallium sulfate	288. Zinc hydrosulfite
234. Sodium bifluoride	263. Toluene	289. Zinc nitrate
235. Sodium bisulfite	264. Toxaphene	290. Zinc phenolsulfonate
236. Sodium chromate	265. Trichlorofon	291. Zinc phosphide
237. Sodium cyanide	266. Trichloroethylene	292. Zinc silicofluoride
238. Sodium dodecylbenzenesulfonate	267. Trichlorophenol	293. Zinc sulfate
239. Sodium fluoride	268. Triethanolamine dodecylbenzenesulfonate	294. Zirconium nitrate
240. Sodium hydrosulfide	269. Triethylamine	295. Zirconium potassium fluoride
241. Sodium hydroxide	270. Trimethylamine	296. Zirconium sulfate
242. Sodium hypochlorite		297. Zirconium tetrachloride
243. Sodium methylate		
244. Sodium nitrite		

Form 2F NPDES		<b>U.S Environmental Protection Agency</b> <b>Application for NPDES Permit to Discharge Wastewater</b> <b>STORMWATER DISCHARGES ASSOCIATED WITH INDUSTRIAL ACTIVITY</b>
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**SECTION 1. OUTFALL LOCATION (40 CFR 122.21(g)(1))**

<b>Outfall Location</b>	1.1	Provide information on each of the facility's outfalls in the table below			
		<b>Outfall Number</b>	<b>Receiving Water Name</b>	<b>Latitude</b>	<b>Longitude</b>

**SECTION 2. IMPROVEMENTS (40 CFR 122.21(g)(6))**

<b>Improvements</b>	2.1	Are you presently required by any federal, state, or local authority to meet an implementation schedule for constructing, upgrading, or operating wastewater treatment equipment or practices or any other environmental programs that could affect the discharges described in this application? <input type="checkbox"/> Yes <span style="margin-left: 150px;"><input type="checkbox"/> No → SKIP to Section 3.</span>			
	2.2	Briefly identify each applicable project in the table below.			
		<b>Brief Identification and Description of Project</b>	<b>Affected Outfalls <small>(list outfall numbers)</small></b>	<b>Source(s) of Discharge</b>	<b>Final Compliance Dates</b>
					<b>Required</b> <b>Projected</b>

2.3	Have you attached sheets describing any additional water pollution control programs (or other environmental projects that may affect your discharges) that you now have underway or planned? (Optional Item) <input type="checkbox"/> Yes <span style="margin-left: 150px;"><input type="checkbox"/> No</span>			
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EPA Identification Number	NPDES Permit Number	Facility Name
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Form Approved 03/05/19XX/XX/21  
OMB No. 2040-0004

**SECTION 3. SITE DRAINAGE MAP (40 CFR 122.26(c)(1)(i)(A))**

Site Drainage Map	3.1	Have you attached a site drainage map containing all required information to this application? (See instructions for specific guidance.)
		<input type="checkbox"/> Yes <span style="margin-left: 150px;"><input checked="" type="checkbox"/> No</span>

**SECTION 4. POLLUTANT SOURCES (40 CFR 122.26(c)(1)(i)(B))**

Pollutant Sources	4.1	Provide information on the facility's pollutant sources in the table below.																					
		<table border="1"> <thead> <tr> <th>Outfall Number</th> <th>Impervious Surface Area (within a mile radius of the facility)</th> <th>Total Surface Area Drained (within a mile radius of the facility)</th> </tr> </thead> <tbody> <tr> <td></td> <td><i>specify units</i></td> <td><i>specify units</i></td> </tr> <tr> <td></td> <td><i>specify units</i></td> <td><i>specify units</i></td> </tr> <tr> <td></td> <td><i>specify units</i></td> <td><i>specify units</i></td> </tr> <tr> <td></td> <td><i>specify units</i></td> <td><i>specify units</i></td> </tr> <tr> <td></td> <td><i>specify units</i></td> <td><i>specify units</i></td> </tr> <tr> <td></td> <td><i>specify units</i></td> <td><i>specify units</i></td> </tr> </tbody> </table>	Outfall Number	Impervious Surface Area (within a mile radius of the facility)	Total Surface Area Drained (within a mile radius of the facility)		<i>specify units</i>	<i>specify units</i>		<i>specify units</i>	<i>specify units</i>		<i>specify units</i>	<i>specify units</i>		<i>specify units</i>	<i>specify units</i>		<i>specify units</i>	<i>specify units</i>		<i>specify units</i>	<i>specify units</i>
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		<i>specify units</i>	<i>specify units</i>																				
	4.2	Provide a narrative description of the facility's significant material in the space below. (See instructions for content requirements.)																					
4.3	Provide the location and a description of existing structural and non-structural control measures to reduce pollutants in stormwater runoff. (See instructions for specific guidance.)																						
	<table border="1"> <thead> <tr> <th colspan="3">Stormwater Treatment</th> </tr> <tr> <th>Outfall Number</th> <th>Control Measures and Treatment</th> <th>Codes from Exhibit 2F-1 (list)</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> </tr> </tbody> </table>	Stormwater Treatment			Outfall Number	Control Measures and Treatment	Codes from Exhibit 2F-1 (list)																
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**SECTION 5. NON-STORMWATER DISCHARGES (40 CFR 122.26(c)(1)(i)(C))**

Non-Stormwater Discharges	5.1	<p><i>Provide the following certification. (See instructions to determine the appropriate person to sign the application.)</i></p> <p><i>I certify under penalty of law that the outfall(s) covered by this application have been tested or evaluated for the presence of non-stormwater discharges. Moreover, I certify that the outfalls identified as having non-stormwater discharges are described in either an accompanying NPDES Form 2C, 2D, or 2E application.</i></p>			
		Name (print or type first and last name)	Official title		
		Signature	Date signed		
	5.2	Provide the testing information requested in the table below.			
		<b>Outfall Number</b>	<b>Description of Testing Method Used</b>	<b>Date(s) of Testing</b>	<b>Onsite Drainage Points Directly Observed During Test</b>

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**SECTION 6. SIGNIFICANT LEAKS OR SPILLS (40 CFR 122.26(c)(1)(i)(D))**

Significant Leaks or Spills	6.1	Describe any significant leaks or spills of toxic or hazardous pollutants in the last three years.

**SECTION 7. DISCHARGE INFORMATION (40 CFR 122.26(c)(1)(i)(E))**

Discharge Information	See the instructions to determine the pollutants and parameters you are required to monitor and, in turn, the tables you must complete. Not all applicants need to complete each table.	
	7.1	<p>Is this a new source or new discharge?</p> <p><input type="checkbox"/> Yes → See instructions regarding submission of <i>estimated data</i>.      <input type="checkbox"/> No → See instructions regarding submission of <i>actual data</i>.</p>
	<b>Tables A, B, C, and D</b>	
	7.2	<p>Have you completed Table A for each outfall?</p> <p><input type="checkbox"/> Yes      <input checked="" type="checkbox"/> No</p>

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<b>Discharge Information Continued</b>	7.3	Is the facility subject to an effluent limitation guideline (ELG) or effluent limitations in an NPDES permit for its process wastewater? <input type="checkbox"/> Yes <input type="checkbox"/> No → SKIP to Item 7.5.	
	7.4	Have you completed Table B by providing quantitative data for those pollutants that are (1) limited either directly or indirectly in an ELG and/or (2) subject to effluent limitations in an NPDES permit for the facility's process wastewater? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
	7.5	Do you know or have reason to believe any pollutants in Exhibit 2F-2 are present in the discharge? <input type="checkbox"/> Yes <input type="checkbox"/> No → SKIP to Item 7.7.	
	7.6	Have you listed all pollutants in Exhibit 2F-2 that you know or have reason to believe are present in the discharge and provided quantitative data or an explanation for those pollutants in Table C? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
	7.7	Do you qualify for a small business exemption under the criteria specified in the Instructions? <input type="checkbox"/> Yes → SKIP to Item 7.18. <input type="checkbox"/> No	
	7.8	Do you know or have reason to believe any pollutants in Exhibit 2F-3 are present in the discharge? <input type="checkbox"/> Yes <input type="checkbox"/> No → SKIP to Item 7.10.	
	7.9	Have you listed all pollutants in Exhibit 2F-3 that you know or have reason to believe are present in the discharge in Table C? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
	7.10	Do you expect any of the pollutants in Exhibit 2F-3 to be discharged in concentrations of 10 ppb or greater? <input type="checkbox"/> Yes <input type="checkbox"/> No → SKIP to Item 7.12.	
	7.11	Have you provided quantitative data in Table C for those pollutants in Exhibit 2F-3 that you expect to be discharged in concentrations of 10 ppb or greater? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
	7.12	Do you expect acrolein, acrylonitrile, 2,4-dinitrophenol, or 2-methyl-4,6-dinitrophenol to be discharged in concentrations of 100 ppb or greater? <input type="checkbox"/> Yes <input type="checkbox"/> No → SKIP to Item 7.14.	
	7.13	Have you provided quantitative data in Table C for the pollutants identified in Item 7.12 that you expect to be discharged in concentrations of 100 ppb or greater? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
	7.14	Have you provided quantitative data or an explanation in Table C for pollutants you expect to be present in the discharge at concentrations less than 10 ppb (or less than 100 ppb for the pollutants identified in Item 7.12)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
	7.15	Do you know or have reason to believe any pollutants in Exhibit 2F-4 are present in the discharge? <input type="checkbox"/> Yes <input type="checkbox"/> No → SKIP to Item 7.17.	
	7.16	Have you listed pollutants in Exhibit 2F-4 that you know or believe to be present in the discharge and provided an explanation in Table C? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
7.17	Have you provided information for the storm event(s) sampled in Table D? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		

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Discharge Information Continued	<b>Used or Manufactured Toxics</b>			
	7.18	Is any pollutant listed on Exhibits 2F-2 through 2F-4 a substance or a component of a substance used or manufactured as an intermediate or final product or byproduct? <input type="checkbox"/> Yes <input type="checkbox"/> No → SKIP to Section 8.		
	7.19	List the pollutants below, including TCDD if applicable. <u>Attach additional sheets, if necessary.</u>		
		1.	4.	7.
		2.	5.	8.
		3.	6.	9.

**SECTION 8. BIOLOGICAL TOXICITY TESTING DATA (40 CFR 122.21(g)(11))**

Biological Toxicity Testing Data	8.1	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 three years? <input type="checkbox"/> Yes <input type="checkbox"/> No → SKIP to Section 9.		
	8.2	Identify the tests and their purposes below.		
		<b>Test(s)</b>	<b>Purpose of Test(s)</b>	<b>Submitted to NPDES Permitting Authority?</b>
				<input type="checkbox"/> Yes <input type="checkbox"/> No
			<input type="checkbox"/> Yes <input type="checkbox"/> No	
			<input type="checkbox"/> Yes <input type="checkbox"/> No	

**SECTION 9. CONTRACT ANALYSIS INFORMATION (40 CFR 122.21(g)(12))**

Contract Analysis Information	9.1	Were any of the analyses reported in Section 7 (on Tables A through C) performed by a contract laboratory or consulting firm? <input type="checkbox"/> Yes <input type="checkbox"/> No → SKIP to Section 10.			
	9.2	Provide information for each contract laboratory or consulting firm below.			
			<b>Laboratory Number 1</b>	<b>Laboratory Number 2</b>	<b>Laboratory Number 3</b>
		Name of laboratory/firm			
		Laboratory address			
		Phone number			
	Pollutant(s) analyzed				



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**SECTION 10. CHECKLIST AND CERTIFICATION STATEMENT (40 CFR 122.22(a) and (d))**

<b>Checklist and Certification Statement</b>	10.1	In Column 1 below, mark the sections of Form 2F that you have completed and are submitting with your application. For each section, specify in Column 2 any attachments that you are enclosing to alert the permitting authority. Note that not all applicants are required to complete all sections or provide attachments.					
		<b>Column 1</b>	<b>Column 2</b>				
		<input type="checkbox"/> Section 1	<input type="checkbox"/> w/ attachments (e.g., responses for additional outfalls)				
		<input type="checkbox"/> Section 2	<input type="checkbox"/> w/ attachments				
		<input type="checkbox"/> Section 3	<input type="checkbox"/> w/ site drainage map				
		<input type="checkbox"/> Section 4	<input type="checkbox"/> w/ attachments				
		<input type="checkbox"/> Section 5	<input type="checkbox"/> w/ attachments				
		<input type="checkbox"/> Section 6	<input type="checkbox"/> w/ attachments				
		<input type="checkbox"/> Section 7	<input type="checkbox"/> Table A <input type="checkbox"/> w/ small business exemption request <input type="checkbox"/> Table B <input type="checkbox"/> w/ analytical results as an attachment <input type="checkbox"/> Table C <input type="checkbox"/> Table D				
		<input type="checkbox"/> Section 8	<input type="checkbox"/> w/attachments				
		<input type="checkbox"/> Section 9	<input type="checkbox"/> w/attachments (e.g., responses for additional contact laboratories or firms)				
		<input type="checkbox"/> Section 10	<input type="checkbox"/>				
	10.2	<p><u>Provide the following certification. (See instructions to determine the appropriate person to sign the application.)</u></p> <p><b>Certification Statement</b></p> <p><i>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.</i></p> <table border="1" style="width: 100%;"> <tr> <td style="width: 50%;">Name (print or type first and last name)</td> <td style="width: 50%;">Official title</td> </tr> <tr> <td>Signature</td> <td>Date signed</td> </tr> </table>		Name (print or type first and last name)	Official title	Signature	Date signed
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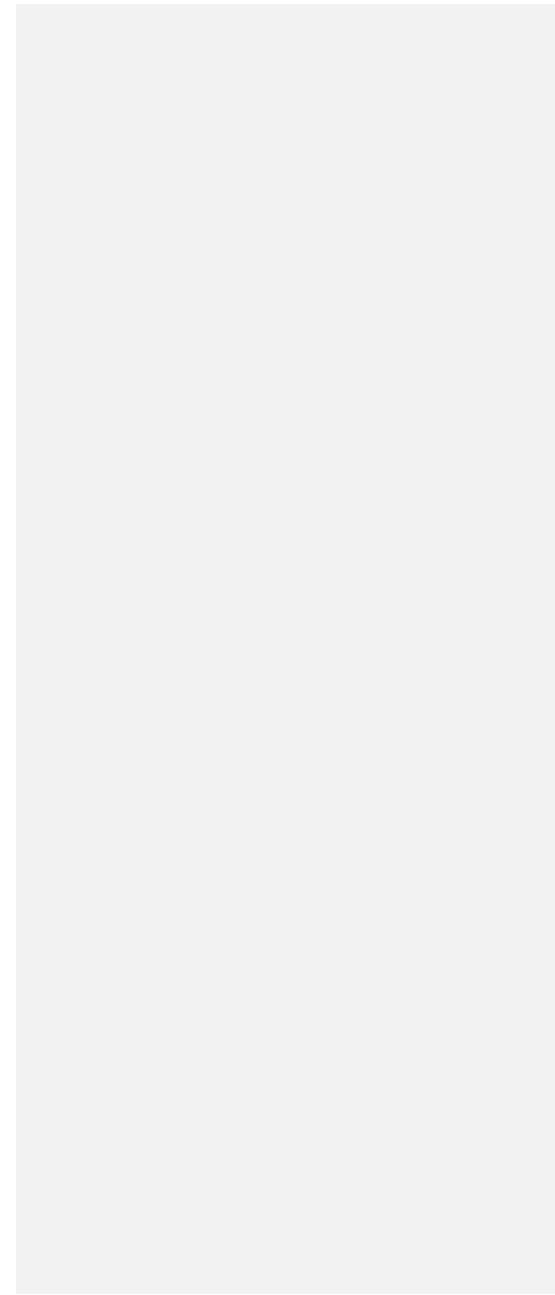
**TABLE A. CONVENTIONAL AND NON-CONVENTIONAL PARAMETERS (40 CFR 122.26(c)(1)(i)(E)(3))<sup>1</sup>**

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 and requirements.

Pollutant or Parameter	Maximum Daily Discharge (specify units)		Average Daily Discharge (specify units)		Number of Storm Events Sampled	Source of Information <small>(new source/new dischargers only; use codes in instructions)</small>
	Grab Sample Taken During First 30 Minutes	Flow-Weighted Composite	Grab Sample Taken During First 30 Minutes	Flow-Weighted Composite		
1. Oil and grease						
2. Biochemical oxygen demand (BOD <sub>5</sub> )						
3. Chemical oxygen demand (COD)						
4. Total suspended solids (TSS)						
5. Total phosphorus						
6. Total Kjeldahl nitrogen (TKN)						
7. Total nitrogen (as N)						
8. pH (minimum)						
pH (maximum)						

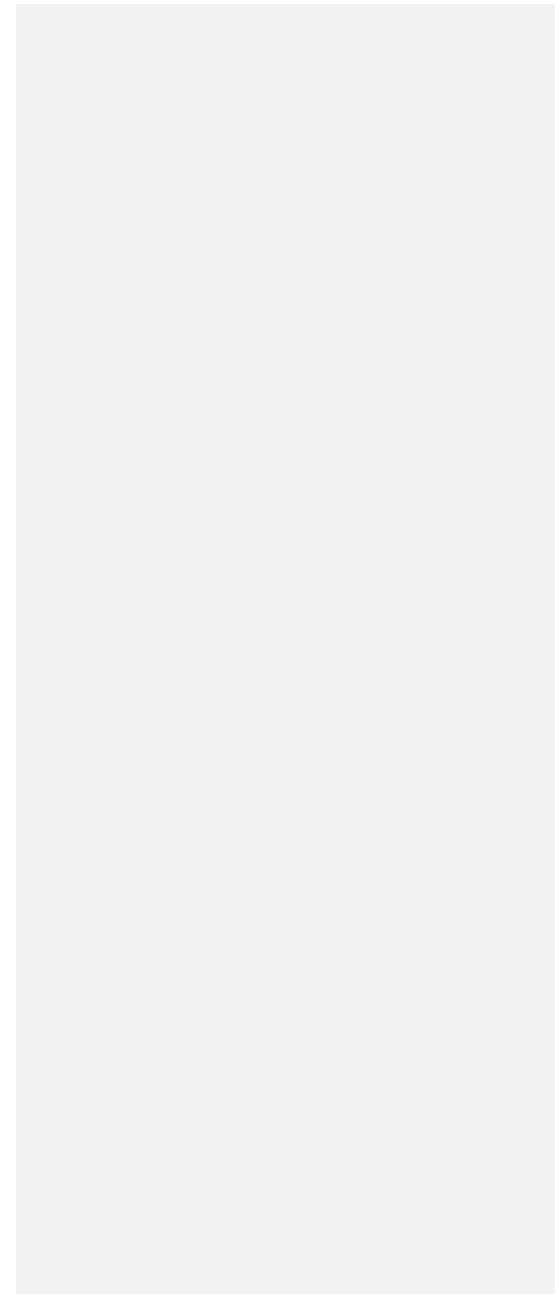
<sup>1</sup> Sampling shall be conducted according to sufficiently sensitive test procedures (i.e., methods) approved under 40 CFR 136 for the analysis of pollutants or pollutant parameters or required under 40 CFR chapter I, subchapter N or O. See instructions and 40 CFR 122.21(e)(3).

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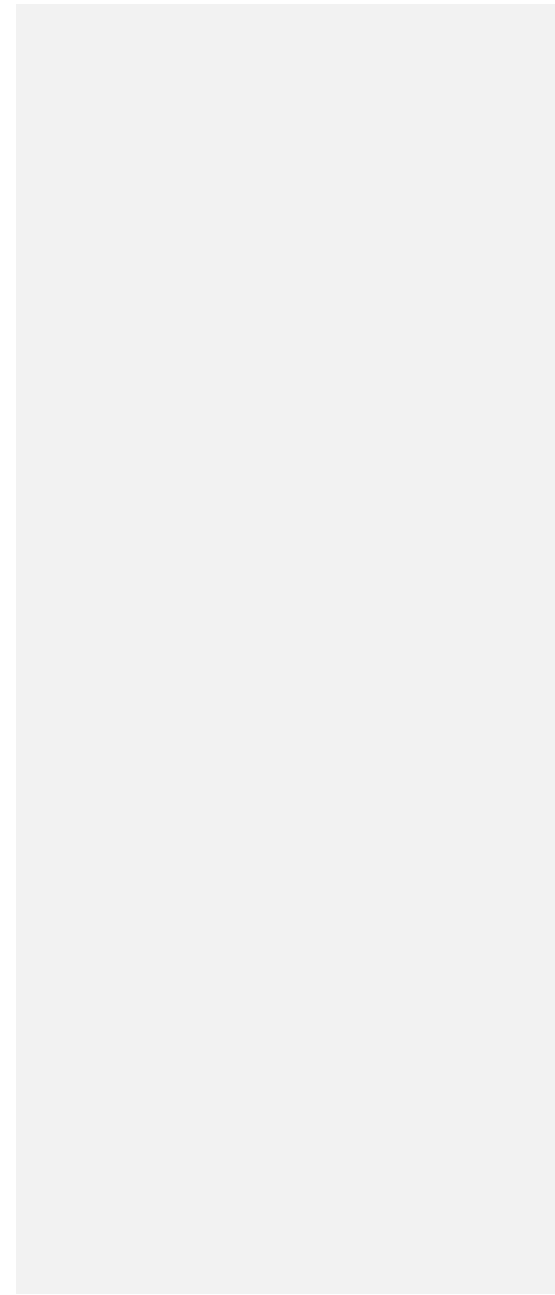


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**TABLE D. STORM EVENT INFORMATION (40 CFR 122.26(c)(1)(i)(E)(6))**

Provide data for the storm event(s) that resulted in the maximum daily discharges for the flow-weighted composite sample.

Date of Storm Event	Duration of Storm Event (in hours)	Total Rainfall During Storm Event (in inches)	Number of Hours Between Beginning of Storm Measured and End of Previous Measurable Rain Event	Maximum Flow Rate During Rain Event (in gpm or specify units)	Total Flow from Rain Event (in gallons or specify units)

Provide a description of the method of flow measurement or estimate.