

Instructions for Completing
FRSA Self Monitoring Report Form
For Categorical Industrial Users - Composite Samples

INTRODUCTION

The General Pretreatment Regulations and the Four Rivers Sanitation Authority Code of Ordinances requires that all categorical and non-categorical Significant Industrial Users (SIUs) submit, at a minimum, semi-annual self-monitoring reports. The **minimum** reporting requirements are listed in your Wastewater Discharge Permit

If your facility monitors any regulated pollutant more frequently than the minimum required in the SIU's Wastewater Discharge Permit, the results of this monitoring shall be reported on the appropriate report forms and submitted to the Authority on a monthly basis.

The results of industrial self-monitoring, upon approval by the Authority, shall be included with Authority sampling and analysis data to determine compliance with all applicable pretreatment discharge standards. Should the self-monitoring report indicate analyses of Authority provided split samples, these results, if approved, will be averaged with the District's analytical results for the same sample.

In order for the self-monitoring data to be accepted, the samples need to be:

- * collected at the discharge location shown in the SIU's Wastewater Discharge Permit;
- * taken following the proper sample procedures; and
- * analyzed following the approved methods listed in 40 CFR Part 136.

Specific detailed instructions on the completion of the self-monitoring report form and the collection of samples are provided in the accompanying sections of this document. Further information can be obtained by contacting the Authority at (815) 387-7634 or (815) 387-7636.

I. COVER PAGE INSTRUCTIONS

A. General

Identify the company name, address and phone number

Authority staff reviews industry's sampling data on a monthly basis to determine compliance with the pretreatment standards and to identify those companies that will be reported as being in Significant Non-Compliance (SNC) for the year. In order for the Authority to review "monthly" industrial self-monitoring data it should be submitted to the Authority as soon as the sample results are made available to the industrial user. "Semi-Annual" self-monitoring reports are due on or before the 20th of January or July for the preceding six months, unless otherwise specified in your Wastewater Discharge Permit. The Authority has the self-monitoring report forms available in both hard copy and on the District's Web site at

B. Compliance Certification Statement

- 1 Indicate whether your facility is or is not in consistent compliance. Consistent compliance is typically defined as NOT being in Significant Non-Compliance (SNC).
- 2 Attach a separate statement if your facility is NOT in consistent compliance indicating what steps will be taken to bring the facility back into consistent compliance.
- 3 The Compliance Certification Statement must be reviewed by an Authorized Representative and Qualified Professional. The position of Authorized Representative and Qualified Professional is defined in 40 CFR Part 403.12 (1)(1-3). www.access.gpo.gov/nara/cfr/cfrhtml_00/Title_40/40cfr403_00 Space is provided on the self-monitoring report form for the appropriate signatures.

II. ANALYTICAL PORTION OF SELF-MONITORING REPORT FORM (BACK SIDE OF FORM)

- * FRSA Discharge Number - This number is issued by the Authority and can be found in the upper right-hand corner of your Wastewater Discharge Permit under "FRSA".
- * Sample Location - The location where the sample was collected shall be indicated. All samples must be collected from the appropriate sample point, which can be found in your Wastewater Discharge Permit.
- * Applicable National Pretreatment Standard - Indicate the applicable National Categorical Pretreatment Standard your facility is subject to. This can be found in your Wastewater Discharge Permit.
- * Month/Year Sampling Conducted - The month and year in which the samples were collected shall be identified. Only one form shall be submitted for each month.
- * Sample Information - Indicate the hold time between when the sample was collected and analyzed, the type of sample container and preservative used.
- * Contract Lab - If a contract lab was used for sampling/analyzing, provide the name, address and telephone number of the lab. A copy of the chain-of-custody form shall accompany the self-monitoring report form when a contract lab is used.
- * Daily & Monthly or 4-Day Categorical Limit - Indicate the daily maximum and average numerical categorical limits applicable to the IU across the rows labeled "Daily Categorical Limits" and "Monthly or 4-Day Avg. Categorical Limit." This information can be obtained from your Wastewater Discharge Permit.
- * Analytical Results - Shall be entered in the row opposite the day of the sample. The numbers 1 through 31 represent the day of the month. Analytical results of each sample are recorded in the column and row appropriate to the sample date and pollutant type. Results shall be provided in units consistent with the units column (mg/L). The sample data must be placed in the row corresponding with the day of the sample. The reporting requirements can be found in your Wastewater Discharge Permit along with the required reporting frequency and number of samples per report.

Categorical Industrial Users (CIUs) must comply with the daily maximum concentration and average sample concentration (either monthly or 4-day average). As an example, the daily maximum and 4-day average requirements are applied to electroplaters, 40 CFR Part 413.
- * FRSA Split Sample - If the sample is a Authority split sample, an "S" shall be entered into the "FRSA Split Sample" column in the row corresponding with the day of the sample.
- * Wastewater Flow Allocation - If the total flow for the facility has increased or decreased by 20 percent or more, the CIU shall measure the flows and identify all wastewater sources necessary to allow use of the Combined Wastestream Formula (CWF).

III. SUMMARY OF APPROVED SAMPLE COLLECTION AND ANALYSES PROCEDURES

Sampling and analysis shall be performed in accordance with the techniques described in 40 CFR Part 136. Where 40 CFR Part 136 does not contain sampling or analytical techniques for the pollutant in question, or where the USEPA determines that Part 136 sampling and analytical techniques are inappropriate for the pollutant in question, sampling and analysis shall be performed using validated analytical methods or any other applicable sampling and analytical procedures, including the procedure suggested by the FRSA or other parties approved by the USEPA.

A. Sample Collection

- 1 Samples must be collected from the correct location, i.e. discharge location identified in your Wastewater Discharge Permit.

Composite samples shall be collected in proportion to flow. If the flow rate does not vary, time proportional composite samples may be acceptable. Composite samples must be collected throughout the work day.

Composite samples may be collected manually or with an automatic composite sampler.

- 2 Proper preservatives, sample containers and hold times must be observed prior to analysis.

<u>Parameter</u>	<u>Container</u> ¹	<u>Preservative</u>	<u>Hold Time</u>
Cyanide	Polyethylene or Glass	Cool, $\leq 6^{\circ}\text{C}$ or NaOH to pH >12 0.69 ascorbic acid	6 days
FOG	Glass	Cool, $\leq 6^{\circ}\text{C}$, HCl or H_2SO_4 to pH <2	28 days
VOC	40 mL vials Glass, Teflon lined septum	Cool, $\leq 6^{\circ}$	14 days
Metals	Polyethylene or Glass	HNO_3 to pH <2, or at least 24 hours prior to analysis.	6 months

B. Sample Analysis

- 1 Samples must be analyzed in accordance with the approved methods listed in 40 CFR Part 136. The methods in 40 CFR Part 136 are derived from five different sources.

- a. Methods for the Chemical Analyses of Water and Wastes;
- b. Standard Methods for the Examination of Water and Wastewater;
- c. ASTM
- d. Methods for Analyses of Inorganic Substances in Water and Fluvial Sediments; and
- e. additional sources

- 2 For the determination of total metals, the sample is not filtered before processing. A digestion procedure is required to solubilize suspended material and to destroy organic-metal complexes.

- 3 Cyanide samples must undergo manual distillation followed by titration or spectrophotometric analysis.

IV. GENERAL INFORMATION

All laboratory results of properly collected and analyzed samples are required to be submitted to the Authority regardless of whether the samples are in compliance. Discharge sample results that exceed a pretreatment limit are required to be reported to the Authority within twenty-four (24) hours of the time the industry becomes aware of the violation. The discharge must be re-sampled and analyzed within thirty (30) days of the violation.

Four Rivers Sanitation Authority Self Monitoring
Report Form for Composite Samples (Categorical
Significant Industrial Users)

A. GENERAL

COMPANY:	Address:	Phone:
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This report shall contain the results of all sampling and analysis of your discharge, including flow and the concentration of those pollutants which are limited by the applicable Pretreatment Standards and are listed in Section II of your Wastewater Discharge Permit or are regulated by Authority Local Limits, as found in Title 2 of the District's Code of Ordinances.

If your facility monitors any pollutant more frequently than required by your permit, using test procedures prescribed in 40 CFR Part 136 or other Four Rivers Sanitation Authority approved methods, as specified in your permit, the results shall be reported in this Self Monitoring Report and submitted to the Four Rivers Sanitation Authority on a monthly basis. Such monitoring shall be included in all calculations used by the Authority to determine the compliance status of the facility.

The monitoring results obtained shall be summarized and reported on this form. Use one form for each month reported. reported. The semi-annual self monitoring reports are due on or before the 20th of January and July for the preceding six month period.

B. COMPLIANCE CERTIFICATION STATEMENT (PLEASE ANSWER QUESTION 1 BELOW)

1. Based upon the information reported in this form and my inquiry of those individuals directly responsible for compliance with the applicable pretreatment standards, this facility **IS** [], **IS NOT** [] in consistent compliance with the pretreatment standards and requirements. **(NOTE: consistent compliance is typically defined as NOT being in Significant Non-Compliance (SNC).**

2. If the facility is not in consistent compliance with the applicable pretreatment standards, a separate statement is to be attached to this form detailing what additional operation and maintenance and/or pretreatment is necessary to bring the facility in compliance with those standards. This statement shall satisfy the requirements of the General Pretreatment Regulations (40 CFR Part 403.12(b)(7)) concerning the compliance schedules and be completed by the individuals signing this form.

3. 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(s) 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>AUTHORIZED REPRESENTATIVE</i>	<i>QUALIFIED PROFESSIONAL</i>
NAME:	NAME:
TITLE:	TITLE:
TELEPHONE NUMBER:	TELEPHONE NUMBER:
SIGNATURE:	SIGNATURE:
DATE:	DATE:

Four Rivers Sanitation Authority
Self Monitoring Report Form for Composite Samples - Categorical Significant Industrial Users

FRSA DISCHARGE NUMBER ¹ _____ SAMPLE LOCATION ² _____

Applicable National Pretreatment Standard, 40 CFR Part: _____ This report is for samples collected in the month/year of: _____

Sample Hold Time: _____ Container Type: _____ Preservative Used: _____

(If a contract lab was used for sampling/analyzing please provide the information below):

LAB NAME _____ ADDRESS _____ PHONE #: _____

DAY OF SAMPLE	FRSA SPLIT SAMPLE ⁴	TOTAL FLOW ⁵	ADDRESS																	
			Pollutant	T-Chrome	Copper	Lead	Nickel	Silver	Zinc	Selenium	Vandadium	Titanium	Cobalt	Other	Other	Other	Other	Other	Other	
Daily Categorical Limit ³																				
Monthly or 4-day Average Limit ³																				
	Cr-T (mg/L)	Cu (mg/L)	Pb (mg/L)	Ni (mg/L)	Ag (mg/L)	Zn (mg/L)	Se (mg/L)	V (mg/L)	T (mg/L)	Co (mg/L)	Other ()	Other ()	Other ()	Other ()	Other ()	Other ()	Other ()	Other ()	Other ()	
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If any of the flows for the applicable sources listed below have changed >20% or <20% within the past 12 months, please complete the section below. If not, skip the section.

Wastewater Source	Sanitary	Categorical Process	Non-Categorical Process	Cooling	Boiler	Scrubber	Other:(List Source: _____)
Flow (GPD) ⁶							

¹ As found in Section II.B of your Wastewater Discharge Permit.

² At discharge point where the sample is collected.

³ Record the pollutant discharge limit as found in Section II of your Wastewater Discharge Permit.

⁴ Please indicate with an "S" if the sample taken was a Authority split

sample. ⁵ Total Flow at the discharge point where the sample is collected.

⁶ List the wastewater allocation of the total flow by source.