

BASELINE MONITORING REPORT (BMR)

EPA Electroplating (40 CFR 413) or Metal Finishing (40 CFR 433) Point Source Category Regulations (Please print or type)

I. Company Information

Name: _____ Tel: (____) _____
 Situs Address: _____
 _____ Zip: _____
 Mailing Address: _____
 _____ Zip: _____
 Sanitation Districts' Industrial Wastewater Discharge Permit Number¹: _____
 Sanitation Districts' Industrial Wastewater Discharge Permit Flow Rate: _____ gal/day
 Federal Standard Industrial Classification Numbers (SIC) characterizing this facility: _____
 Company's Industrial Waste Contact Person: _____
 Title: _____
 Person In Charge of Local Operations: _____
 Title: _____
 Owner of Company (parent company or corporate entity if appropriate): _____
 Address of Owner: _____

II. Category Determination

A. Unit Operations

Please check any and all of the following unit operations which are performed at your **facility**.² Provide a brief description of those operations in the space provided (e.g. CuCN plating, H₂SO₄ anodizing, Fe phosphatizing, FeCl₃ etching, etc.).

		Brief Description
1	Electroplating	_____
2	Electroless Plating	_____
3	Anodizing	_____
4	Coating (phosphatizing, chromating, etc.)	_____

¹ One Baseline Monitoring Report (BMR) must be completed for **every** industrial wastewater discharge point to the sewer from your facility.

² If your facility has more than one sewer connection, indicate in the description area which operations discharge to which permit number.

- 5 Chemical Etching and Milling _____
 (includes caustic cleaning of _____
 aluminum & acid cleaning of _____
 most metals)
- 6 Printed Circuit Board Mfg. _____
- 7 None of the Above _____

B. Exempt Companies

If you checked item number 7 in IIA above, your facility is not covered by the EPA Electroplating or Metal Finishing regulations. Your claim to such an exemption will be verified through inspections of your facility by Sanitation Districts' personnel.

If you believe your facility is exempt from the Electroplating and Metal Finishing regulations but may be covered by another EPA categorical regulation, please indicate that category here.

As your company has denoted it is exempt by checking item 7 in IIA above, you do not need to fully complete this BMR. Please proceed to Section IX of this form, complete the certification statement and return this form to the Sanitation Districts.

C. Companies Not Exempt

If you did not check item number 7 in IIA above, please continue. Please check one of the two boxes below. If your facility had categorical installations made both before and after August 31, 1982, please include a construction timetable as a separate attachment.

- 1 New Source - electroplating or metal finishing operations were constructed after August 31, 1982.³
- 2 Existing Source - electroplating or metal finishing operations were constructed prior to August 31, 1982. Date facilities were constructed _____

Please check one of the three boxes below.

- 3 Job Shop - Owns less than 50% (area basis) of the materials undergoing metal finishing.
- 4 Independent Printed Circuit Board Manufacturer - Manufactures printed circuit boards primarily for sale to other companies.
- 5 Captive Shop - Owns over 50% (area basis) of the materials undergoing metal finishing.

D. Category Determination

The category your facility belongs to can be determined based on the items checked in IIC above. Please check the box below which applies to your facility.

New Source Metal Finishing (40 CFR 433) if you checked box 1 and box 3, 4, or 5 in IIC.

³ The term "new source" is not always easily defined. The Sanitation Districts encourage you to request our assistance in making this determination if there is any uncertainty.

Existing Source Metal Finishing (40 CFR 433) if you checked box 2 and box 5 in IIC.

Electroplating Less Than 10,000 gpd (40 CFR 413) if you checked box 2 and box 3 or 4 in IIC and your permit flowrate from page 1 is less than 10,000 gpd ⁴

Electroplating Greater Than 10,000 gpd (40 CFR 413) if you checked box 2 and box 3 or 4 in IIC and your permit flowrate from page 1 is greater than 10,000 gpd ⁴

III. Flow Measurement Information – Please complete the following tables. Also, attach a schematic process flow diagram showing wastestreams, flowrates, treatment units and sampling locations.

Description of EPA Regulated Wastewater Flows ⁵	Average Daily Flow (gal/day)	Maximum Daily Flow (gal/day)	Flow Description ⁶		Does Wastestream Receive Pretreatment? Yes or No Describe
			E/M	I/C	

⁴ If your permit flowrate is no longer an accurate measure of your daily discharge then your company should apply for a permit revision.

⁵ Separately include all wastestreams discharging to this connection/outfall which are covered by EPA categorical regulations. Discharges regulated under categories other than 413 and 433 should also be listed here. For Metal Finishing, the six operations listed in section IIA and an additional 40 operations are regulated. For Electroplating, only the six operations listed in section IIA are regulated. Any of the additional 40 operations are considered unregulated flows under the Electroplating regulations and should be listed there.

⁶ Please indicate by letter in this column whether wastewater flow value is (E) Estimated or (M) Measured, and (I) Intermittent or (C) Continuous.

Description of EPA Unregulated Wastewater Flows ⁷	Average Daily Flow (gal/day)	Maximum Daily Flow (gal/day)	Flow Description ⁶		Does Wastestream Receive Pretreatment? Yes or No Describe
			E/M	I/C	

Description of Dilution Wastewater Flows ⁸	Average Daily Flow (gal/day)	Maximum Daily Flow (gal/day)	Flow Description ⁶		Does Wastestream Receive Pretreatment? Yes or No Describe
			E/M	I/C	

IV. Environmental Control Permits

Please list other environmental control permits held by or for your facility.

Does your facility have an air pollution control device which produces a discharge to the sewer?

Yes No

⁷ Includes wastewater flows to this connection/outfall from operations not covered by EPA industrial categorical regulations and not considered dilution flows.

⁸ Dilution flows include non-contact cooling water and boiler blowdown, D. I. Backwash and R. O. reject water from incoming water supply treatment, and wastestreams listed in Appendix D to 40 CFR 403 and sanitary wastes. Sanitary wastes should not be listed here unless they discharge through the legal sampling point.

V. Production Information

Provide a brief description of your operations from raw materials to finished product.

Rates of Production - Please complete the following table, add additional pages if necessary.

	1	2	3
Name of unit production			
Unit of production			
Daily production rate			
Monthly production rate			

VI. Total Toxic Organic (TTO) Information

Dischargers subject to Metal Finishing (40 CFR 433) or Electroplating (40 CFR 413) regulations are regulated for TTO. Your company must periodically monitor its wastestream to show compliance with this limitation. EPA will allow dischargers subject to these regulations to provide the Control Authority (Districts) with a list of TTO compounds stored or used at the facility to lessen the number of parameters which must be monitored. The discharger may also submit a Toxic Organic Management Plan (TOMP) to the Districts, which if approved will allow the discharger to certify that TTO compounds have not been discharged, in lieu of TTO self-monitoring. The Sanitation Districts have guidelines for "Total Toxic Organics Monitoring Requirements and Toxic Organic Management Plans" which you should request if you do not have a copy.

Please check the following boxes which apply.

TTO compounds **are** stored and/or used at this facility. A TOMP was submitted to the Districts on _____.

No TTO compounds are stored or used at this facility. A TOMP was submitted to the Districts on _____.

This company will perform self-monitoring for TTO (check one of the boxes below)

Monitoring will be for the entire list of 111 regulated TTO compounds as shown in 40 CFR 433.11(e) or 40 CFR 413.02(i).

Monitoring will be performed for TTO compounds expected to be present in the wastewater, as listed below. It is understood that the Districts may expand the self-monitoring TTO parameters at their discretion.

TTO compounds Stored or Used at this Facility (attach additional pages as necessary)	Is the compound listed in the adjacent column expected to be present in the wastewater? (Yes or No)
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TTO compounds Stored or Used at this Facility (attach additional pages as necessary)	Is the compound listed in the adjacent column expected to be present in the wastewater? (Yes or No)
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____

VII. Measurement of Pollutants

The daily maximum and average concentrations of all regulated pollutants in all regulated wastewater streams described in Section III must be provided with this BMR⁹. The wastewater must be sampled and analyzed in accordance with 40 CFR 403.12(b)(5)(iii-viii). Copies of the wastewater analysis results must be attached to this BMR when it is submitted to the Sanitation Districts. The sample results must indicate the analytical test method used for each parameter.

Representative samples will consist of a minimum of four (4) grab samples for pH, cyanide and volatile organics. All other regulated pollutants must be obtained through composite samples, flow-proportioned where feasible. Historical data may be used if it can still be considered representative of the current discharge. For new sources only, estimates of pollutant values are allowed. However, within 90 days of commencement of discharge, the new source discharger must submit a 90 day compliance report to the Sanitation Districts on an additional BMR form.

Please complete the following table describing the sampling and analytical results accompanying this BMR.

Sample Type	Sampling Date & Time	Sampling Location	Name & Address of Company Obtaining Sample	Name & Address of Laboratory Performing Analysis
Composite				
Grab #1				
Grab #2				
Grab #3				
Grab #4				

⁹ Dioxin may be screened, rather than specifically analyzed, as long as the discharger attaches a statement certifying that the facility neither stores, uses or manufactures dioxin.

Sampling Certification

I certify that the sampling and analysis provided with this BMR is representative of normal work cycles and expected pollutant discharges to the Sanitation Districts.

Date: _____ Sign Name: _____
 Print Name: _____
 Job Title: _____

Using the results from the attached analyses, complete the shaded areas of the following table. Compare the sample result value to the 4-day or monthly average limit for your appropriate category to determine consistent compliance. If dilution flows from page 4 passed through the sampling point, then the limits must be adjusted.

Constituent	Sample Result		Limits – Daily Maximum / 4 Day or Monthly Average (mg/l)				Do Sample Results Show Consistent Compliance?
			413<10,000 gpd	413>10,000 gpd	433 Existing	433 New Source	
Cyanide ¹⁰		mg/l	5.0 / 2.7	1.9 / 1.0	1.20 / 0.65 ¹¹	1.20 / 0.65 ¹¹	
Cd		mg/l	1.2 / 0.7	1.2 / 0.7	0.69 / 0.26	0.11 / 0.07	
Cr		mg/l		7.0 / 4.0	2.77 / 1.71	2.77 / 1.71	
Cu		mg/l		4.5 / 2.7	3.38 / 2.07	3.38 / 2.07	
Pb		mg/l	0.6 / 0.4	0.6 / 0.4	0.69 / 0.43	0.69 / 0.43	
Ni		mg/l		4.1 / 2.6	3.98 / 2.38	3.98 / 2.38	
Ag		mg/l		1.2 / 0.7 ¹²	0.43 / 0.24	0.43 / 0.24	
Zn		mg/l		4.2 / 2.6	2.61 / 1.48	2.61 / 1.48	
Total Metals ¹³		mg/l		10.5 / 6.8			
Volatile Organics ¹⁴		ug/l					
TTO ¹⁵		ug/l	4,570	2,130	2,130	2,130	

¹⁰ Average of all 4 CN grab sample results. Must be analyzed as CN amenable to chlorination for Electroplating Less Than 10,000 gpd. All other categories must analyze for Total CN.

¹¹ Under 40 CFR 433, Metal Finishers with CN wastestreams must obtain CN samples downstream of the cyanide treatment unit but prior to commingling with other wastestreams, or alternate CN limits must be calculated based on the dilution ratio of the CN wastestream flow to the effluent flow.

¹² These Electroplating >10,000 gpd silver limits only apply to Electroplating >10,000 gpd facilities which perform precious metal electroplating operations.

¹³ For Electroplating > 10,000 gpd only, total metals is the sum of Cr, Cu, Ni, & Zn.

¹⁴ Average all 4 grab sample results for each regulated volatile organic compound. Sum all average values in excess of 10 ug/l.

¹⁵ Sum of the volatile organics value above and all other regulated toxic organic compounds detected in excess of 10 ug/l.

VIII. Statement of Compliance

An authorized official of the company as defined in 40 CFR 403.12(k) must review the following statements of compliance, which must be certified to by a qualified professional.

I hereby certify that the EPA categorical pretreatment standards which apply to this facility are being met on a consistent basis as evidenced by the attached data. Yes No

I hereby certify that dilution is not being used in lieu of treatment to meet the EPA categorical pretreatment standards. Yes No

If the answer to either of the above statements is *No*, then additional pretreatment, flow reduction or operations and maintenance measures to bring the company into compliance with the EPA categorical regulations must be proposed below. Anticipated completion dates must be provided.

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____

A detailed compliance schedule for the above changes must be attached. This schedule shall contain increments of progress in the form of dates for the commencement and completion of major events leading to the construction and operation of additional pretreatment required for the facility to meet the EPA categorical pretreatment standards (e.g. hiring an engineer, completing preliminary plans, completing final plans, executing contract for major components, commencing construction, completing construction, etc.). A commitment to design, install or alter pretreatment or process systems to effect future compliance does not relieve your company of the requirement to immediately comply with discharge limits by whatever means necessary (cessation, impounding, hauling, etc.) until a more permanent solution is implemented.

Date: _____
Reviewed by: (company official's signature) _____
Print Name: _____
Job Title: _____

Qualified professional certification:

Date: _____
Certified by: (qualified professional's signature) _____
Print Name: _____
Qualifications as an Environmental Professional: _____

Company Name: _____
Company Address: _____

IX. Certification

The following statement must be signed by authorized company official per 40 CFR 403.12(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.

Date: _____

Signature of authorized company official: _____

Print name of official: _____

Title of authorized company official: _____

“Authorized company official” means:

1. For a partnership: a general partner.
2. For a sole proprietorship: the proprietor.
3. For a corporation: 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 the manager of one or more manufacturing, production, or operation 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 initiate and direct other comprehensive measures to assure long term environmental compliance with environmental laws and regulations; can ensure that the necessary systems are established or actions taken to gather complete and accurate information for control mechanism requirements; and where authority to sign documents has been assigned or delegated to the manager in accordance with corporate procedures.
4. A duly authorized official of one of the individuals described above may substitute if:
 - a. The authorization is made in writing by one of the individuals described above;
 - b. The authorization specifies either an individual or a position having responsibility for the overall operation of the permittee’s facility, such as the position of plant manager, operator of a well, or well field superintendent, or a position of equivalent responsibility, or having overall responsibility for environmental matters for the company; and
 - c. The written authorization is submitted to the Districts.