

CITY OF BETHLEHEM, PENNSYLVANIA
INDUSTRIAL WASTE DISCHARGE PERMIT APPLICATION

SECTION A - GENERAL INFORMATION

A.1. Company name, mailing address, and telephone number:

Zip Code_____Telephone No._____/_____

Municipality_____

A.2. Address of production or manufacturing facility. If same as above, check ():

Zip Code_____Telephone No._____/_____

Municipality_____

A.3. Name, title, email and telephone number of person authorized to represent this facility in official dealings with the City of Bethlehem:

A.4. Is this a proposed or existing facility?:_____

A.5. Brief description of the type of business conducted:

A.6. List any of the industrial categories which apply to your facility (See Table I attached to this application):

A.7. Insert each Standard Industrial Classification Number (s) (SIC Code) for each process at your facility:

A.8. This facility generates the following types of wastes (Check all that apply):

- Acid, alkaline or corrosive materials
 - Metal solutions
 - Pesticides
 - Phenols and other toxic organic materials
 - Flammable or explosive materials
 - Radioactive materials
 - Large amounts of soaps or detergents
 - Dyes
 - Other (describe)_____
-

A.9. This facility generates the following types of wastewaters (Check all that apply):

- Domestic (restrooms, showers, etc.)
- Process
- Cooling water, noncontact
- Washdown
- Cooling water, contact
- Air Pollution Unit
- Boiler/Tower blowdown
- Other (describe)_____

SECTION B - FACILITY OPERATION CHARACTERISTICS

Note: Information in this section must be completed for each product line.

B.1. Principal product(s) produced: _____

B.2. Describe manufacturing activities and raw materials and process additives used:
(if additional space is needed please attach an additional sheet)

B.3. Production process is:

- Continuous
- Batch Average number of batches per 24-hour day _____
- Both %Batch _____ %Continuous _____

B.4. Hours of operation: _____ AM to _____ PM

B.5. Is production subject to seasonal variation? () Yes or () No

If yes, briefly describe seasonal production cycle: _____

B.6. Total number of employees at your facility: _____
Number of employees per shift: 1st _____ 2nd _____ 3rd _____

B.7. Are any process changes or expansion planned during the next three years?

- Yes No

SECTION C - WATER SUPPLY AND USAGE

C.1. List raw water sources (e.g., well water, stream water, purchased water, etc.):

<u>Source</u>	<u>Gallons per Day</u> **	<u>Quantity</u> <u>Gallons per Year</u>
_____	_____	_____
_____	_____	_____
_____	_____	_____
Totals	_____	_____

** meter reading if well &/or monthly/quarterly water bill divided by number of days in operation

C.2. Describe any raw water treatment processes in use:

C.3. For purchased water, provide the name of your facility's water purveyor:
_____. Also, complete the following information:

Water Meter(s)				
Location	Size	Account No.	Usage (gpd)	Measures Usage To

C.4. List Water Uses:

<u>Use</u>	<u>Quantity</u>	
	<u>Gallons per Day</u>	<u>Gallons per Year</u>
Sanitary System	_____	_____
Bathroom facilities		
Contained in Product	_____	_____
Cooling Water	_____	_____
Boiler Feed	_____	_____
Process Water	_____	_____
Other (specify):	_____	_____
Totals (same as total from C.1.)	_____	_____

SECTION D - WASTEWATER CHARACTERISTICS

D.1. List volume of discharge or water loss to the following:

<u>Discharge</u>	<u>Quantity</u>	
	<u>Gallons per Day</u>	<u>Gallons per Year</u>
Sanitary sewer (same as total from D.2.)	_____	_____
Storm sewer	_____	_____
Stream Discharge	_____	_____
Waste Hauler	_____	_____
Evaporation	_____	_____
Used in Product	_____	_____
Totals (same as total from C.1.)	_____	_____

D.2. Characterize these quantities of wastewater discharged to the sanitary sewer:

<u>Type of Discharge</u>	<u>Quantity</u>	
	<u>Gallons per Day</u>	<u>Gallons per Year</u>
Sanitary Wastewater	_____	_____
Bathroom facilities		
Process Wastewater (same as total from D.3.)	_____	_____
Totals	_____	_____

D.3. List **process** wastewater streams in terms of source and quantity:

<u>Type Of Process Discharge</u>	<u>Quantity</u>	
	<u>Gallons per Day</u>	<u>Gallons per Year</u>
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
Totals	_____	_____

D.4. List facility connections to City of Bethlehem sanitary sewer mains and attach/refer to a map or diagram:

<u>Location of Connection</u>	<u>Size of Connection</u>	<u>Describe All Wastewater Source(s)</u>	<u>Discharge Quantity (gallons per day)</u>
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

D.5. Fully describe all available sampling points for your facility's wastewater discharge locations identified in D.4. above, attach/refer to a map or diagram:

D.6 Are discharges of wastewater to sanitary sewer: Intermittent () or Steady ()?
If intermittent, describe schedule as fully as possible including peak rates, time and duration of discharge, etc.:

D.7. Provide the following information for all wastewater flow meters:

Wastewater Flow Meter(s)				
Location	Size	Type	Flows (gpd)	Measures Discharges From

D.8 If there are plans for future expansion at this facility in the next three years, discuss the anticipated changes in process and/or sanitary wastewater quantity or quality generated as a result of future expansion:

SECTION E - WASTEWATER MONITORING

E.1. Are any of the toxic pollutants listed in Table II (included at the end of this application) being used at this facility in manufacturing the product, or generated as a by-product? If so, please note on Table II.

E.2. List any other toxic pollutants known or anticipated to be present in the facility or in the wastewater discharged to the sanitary sewer:

E.3. If this application is for a proposed facility or a new facility which is not yet discharging and you are unable to identify the chemical constituents of products used at your facility that are discharged in the wastewater, attach copies of all the materials safety data sheets (MSDS) for each product.

E.4. For all proposed facilities with a similar facility located elsewhere, examine your total wastewater discharge and provide at least one laboratory analysis result for each of the following parameters:

Category One: Temperature, pH, color, mineral/petroleum oil and grease, animal/vegetable oil and grease, CBOD₅, TSS, COD and NH₃-N.

Category Two: The total form of: arsenic, cadmium, chromium, copper, lead, mercury, nickel, silver, zinc and cyanide.

Category Three: Any pollutants identified in response to Question Nos. E.1. or E.2. above.

Category Four: Regulated pollutants identified for your facility if governed by Federal Categorical Pretreatment Standards.

Existing wastewater monitoring results may be relied upon if obtained within the last six months. All samples must be representative of your facility's typical wastewater discharge. Be sure to describe the location from which sample(s) were collected. Sampling and laboratory analyses must be performed in accordance with EPA regulations listed in 40 CFR Part 136.

SECTION F - PRETREATMENT FACILITIES AND PRACTICES

F.1. Describe any wastewater treatment or pretreatment equipment in use:

F.2. Describe any Federal Categorical Pretreatment Standards which apply to your facility (if you are subject to production based discharge limits, include relevant production records with this application):

F.3. If applicable, are Pretreatment Standards being met on a consistent basis?
Yes () or No ()

F.4. Are additional pretreatment facilities and/or operation and maintenance procedures required to meet Pretreatment Standards? If so, describe:

F.5. If additional pretreatment and/or operation and maintenance are required, list the schedule by which they will be provided:

SECTION H - OTHER ENVIRONMENTAL REQUIREMENTS

H.1. List all Environmental Emergency Response Plans prepared for the facility and the date of the latest revisions (e.g. Spill Prevention Control and Countermeasures (SPCC) Plan, Preparedness, Prevention and Contingency (PPC) Plan, Spill Prevention Response (SPR) Plan, etc.):

H.2. In accordance with Article 923 Section 923.02(h), you shall supply to the City a Spill Prevention Plan. A Spill Prevention Plan shall contain, at a minimum, the following elements:

- (1) Description of discharge practices, including non-routine batch discharges;
- (2) Description of stored chemicals;
- (3) Procedure for immediately notifying the POTW of slug load/accidental discharges, including any discharges which would violate a prohibition under 40 CFR 403.5(b), with procedures for follow-up written notification within five days;
- (4) If necessary, procedure to prevent adverse impact from accidental spills, including inspection and maintenance of storage areas, handling and transfer of materials, loading and unloading operations, control of plant site run-off, worker training, building of containment_structures or equipment, measures for containing toxic organic pollutants (including solvents), and/or measures and equipment necessary for emergency responses.

H.3 Does the facility have any environmental permits? If so, list:

<u>Permit Type</u>	<u>Permit No.</u>
NPDES - General	_____
NPDES - Stormwater	_____
NPDES - Industrial	_____
Hazardous Waste	_____
Air	_____
Solid Waste Disposal	_____
Health/Medical	_____
Other (specify):	_____

H.4. If applicable, describe any environmental improvement projects anticipated for implementation at your facility in the next three years:

CITY OF BETHLEHEM - INDUSTRIAL PRETREATMENT PROGRAM
INTENT TO SELF MONITOR STATEMENT

CHECK ONE:

_____ Based on my inquiry of the person or persons directly responsible for managing permit compliance at this facility, I certify that we will complete self monitoring, for the duration of this permit, in order to determine compliance with site specific numeric discharge limitations. Self Monitoring will be completed in accordance with the applicable terms and conditions of this permit and Article 923 of the City's Codified Ordinances.

_____ Based on my inquiry of the person or persons directly responsible for managing permit compliance at this facility, I authorize the City to complete monitoring on our behalf, for the duration of this permit, in order to determine compliance with site specific numeric discharge limitations. I understand that we will be responsible for all fees associated with sampling and analysis as defined in this permit. In the event that we may independently collect additional discharge monitoring data, I certify that the data will be reported to the City in accordance with the applicable terms and conditions of this permit and Article 923 of the City's Codified Ordinances.

Signature of Official & Title

Date

SECTION I - CERTIFICATION STATEMENT

This application is to be signed by an authorized official of your facility, after adequate completion of this form and review of the information by the signing official.

I have personally examined and am familiar with the information submitted in this application and attachments. Based upon my inquiry of those individuals immediately responsible for obtaining the information reported herein, I believe that the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and/or imprisonment.

_____	_____
Date	Signature of Official (Seal if applicable)

NOTE: The City’s Industrial Waste Discharge Permit renewal fee is currently \$250.00. Therefore, a check or money order payable to the City of Bethlehem in the amount of the \$250.00 must accompany this Application in order for it to be processed.

PLEASE RETURN COMPLETED APPLICATIONS TO:

**Ms. Karen Dancho, QC/MIPP Coordinator
Bethlehem Wastewater Treatment Plant
144 Shimersville Road, RD#5
Bethlehem, PA 18015**

TABLE I
INDUSTRIAL CATEGORIES

- () 1. Adhesives
- () 2. Aluminum forming
- () 3. Auto and other laundries
- () 4. Battery manufacturing
- () 5. Coal mining
- () 6. Coil coating
- () 7. Copper forming
- () 8. Electric & electronic components
- () 9. Electroplating
- () 10. Explosives manufacturing
- () 11. Foundries
- () 12. Gum and wood chemicals
- () 13. Inorganic chemicals
- () 14. Iron and steel
- () 15. Leather tanning and finishing
- () 16. Mechanical products
- () 17. Nonferrous metals
- () 18. Ore mining
- () 19. Organic chemicals
- () 20. Paint and ink
- () 21. Pesticides
- () 22. Petroleum refining
- () 23. Pharmaceuticals
- () 24. Photographic Supplies
- () 25. Plastic & synthetic material
- () 26. Plastics processing
- () 27. Porcelain enamel
- () 28. Printing & publishing
- () 29. Pulp & paper
- () 30. Rubber
- () 31. Soaps & detergents
- () 32. Steam electric
- () 33. Textile mills
- () 34. Timber products
- () 35. Dairy products
- () 36. Slaughter/meat packing/rendering
- () 37. Food/edible products processor
- () 38. Beverage bottles

TABLE II
EPA PRIORITY POLLUTANTS

PCB'S & PESTICIDES

4,4'-DDD	Aroclor 1248	Endosulfan Sulfate
4,4'-DDE	Aroclor 1254	Endrin
4,4'-DDT	Aroclor 1260	Endrin Aldehyde
Aldrin	bete-BHC	gamma-BHC
alpha-BHC	Chlordane, Technical	Heptachlor
Aroclor 1016	delta-BHC	Heptachlor Epoxide
Aroclor 1221	Dieldrin	Toxaphene
Aroclor 1232	Endosulfan I	
Aroclor 1242	Endosulfan II	

VOC'S

1,1,1-Trichloroethane	Bromodichloromethane	Ethyl Benzene
1,1,2,2-Tetrachloroethane	Bromoform	Methylene Chloride
1,1,2-Trichloroethane	Bromomethane	Tetrachloroethene
1,1-Dichloroethane	Carbon Tetrachloride	Toluene
1,1-Dichloroethene	Chlorobenzene	trans-1,2-Dichloroethene
1,2-Dichloroethane	Chloroethane	trans-1,3-Dichloropropene
1,2-Dichloropropane	Chloroform	Trichloroethene
2-Chloroethylvinylether	Chloromethane	Trichlorofluormethane
Acrolein	cis-1,2-Dichloroethene	Vinyl Chloride
Acrylonitrile	cis-1,3-Dichloropropene	Xylenes, Total
Benzene	Dibromochloromethane	

BASE NEUTRAL/ACID EXTRACTABLES

1,2,4-Trichlorobenzene	Acenaphthene	Diethyl Phthalate
1,2-Dichlorobenzene	Acenaphthylene	Dimethyl Phthalate
1,3-Dichlorobenzene	Anthracene	Fluoranthene
1,4-Dichlorobenzene	Azobenzene	Fluorene
2,4,6-Trichlorophenol	Benzidine	Hexachlorobenzene
2,4-Dichlorophenol	Benzo(a)Anthracene	Hexachlorobutadiene
2,4-Dimethylphenol	Benzo(a)Pyrene	Hexachlorocyclopentadiene
2,4-Dinitrophenol	Benzo(b)Fluoranthene	Hexachloroethane
2,4-Dinitrotoluene	Benzo(g,h,)Perylene	Indeno(1,2,3-cd)Pyrene
2,6-Dinitrotoluene	Benzo(k)Fluoranthene	Isophorone
2-Chloronaphthalene	bis(2-Chloroethoxy)methane	n-Nitroso-di-n-Propylamine
2-Chlorophenol	bis(2-Chloroethyl)ether	n-Nitrosodimethylamine
2-Nitrophenol	bis(2-Chloroisopropyl)ether	n-Nitrosodiphenylamine
3,3'-Dichlorobenzidine	bis(2-Ethylhexyl)Phthalate	Naphthalene
4,6-Dinitro-2-Methylphenol	Butylbenzyl Phthalate	Nitrobenzene
4-Bromophenyl Phenyl Ether	Chrysene	Pentachlorophenol
4-Chloro-3-Methylphenol	di-n-Butyl Phthalate	Phenanthrene
4-Chlorophenyl Phenyl Ether	di-n-Octyl Phthalate	Phenol
4-Nitrophenol	Dibenzo(a,h)Anthracene	Pyrene

METALS/MISCELLANEOUS

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	Phenolics, Distilled/Extracted