MASSACHUSETTS WATER RESOURCES AUTHORITY SEWER USE DISCHARGE PERMIT APPLICATION for COLLEGES AND UNIVERSITIES INSTRUCTION SHEET

In accordance with the Massachusetts Water Resources Authority (MWRA) Sewer Use Rules and Regulations 360 C.M.R. 10.052 and 10.062, users must complete and file a Sewer Use Discharge Permit Application. The Application must be filed with the MWRA and the municipality in which the sewer user's discharge is located. Please read the following instructions before completing the form.

- 1. Answer all questions carefully.
- 2. The application is designed to apply to a wide range of users. It consists of a "standard application", sections A-G which every user must complete. In addition, several "inserts" have been provided for a variety of different operations. You must submit an insert for every operation that is present at your facility.
- 3. For the questions which do not apply, please write "N/A" or "not applicable" in the space provided.
- 4. If more space is needed, attach additional pages.
- 5. If you have previously submitted information required by this application and that information is unchanged, you must resubmit the information. If there are only minor changes, you may resubmit the information, and on a separate sheet indicate the changes that have occurred, with page references for each change.
- 6. The form must be signed and dated by an authorized representative of the user to be valid.
- 7. Submit the original completed form to the MWRA and a copy to the Municipality where the discharge is located. Keep a copy for your own records.
- 8. You must submit a completed application no later than **(30)** days before your current permit expires in order for your current permit to remain in effect pending a decision on your new application.

MWRA ADDRESS:

MUNICIPAL ADDRESS:

See Attached List

2 Griffin Way

Chelsea, MA 02150-3334

Attention: TRAC

MASSACHUSETTS WATER RESOURCES AUTHORITY

SEWER USE DISCHARGE PERMIT APPLICATION COLLEGES AND UNIVERSITIES

SECTION A - GENERAL INFORMATION

1. Name of					
Applicant:					
2. Mailing Address	:			-	
3. Facility Address				-	
				_	
	ntative to Contact Concernino				
Name:	ntative to Contact Concerning		Provided H		
Name: Telephone: 5. Name and Title Name:	of Authorized Representative	Title:			
Name: Telephone: 5. Name and Title Name: Telephone:	of Authorized Representative	Title:			
Name: Telephone: 5. Name and Title Name: Telephone: 6. Name of Person Name:	of Authorized Representative	Title: : Title: nt from Above			

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The MWRA has adopted the EPA's definition of an Authorized Representative. 40 CFR 403.12 (I):

Authorized Representative

This application form shall be signed and dated by an Authorized Representative to be valid. Authorized representatives include those persons with the following responsibilities:

- (a) Responsible corporate officer, if the applicant is a corporation. For the purpose of this requirement, a responsible corporate officer means 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 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 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 the permit requirements; and where authority to sign documents has been assigned or delegated to the manager in accordance with corporate procedures.
- (b) General partner or proprietor if the applicant is a partnership or sole proprietorship respectively.
- (c) Duly authorized representative of the individual designated in (a) or (b) of this section if:
 - i) the authorization is made in writing by the individual described in (a) or (b);
 - ii) the authorization specifies either an individual or a position having responsibility for the overall operation of the facility from which the industrial discharge originates, 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;
 - iii) the written authorization is submitted to the MWRA

If an authorization is no longer accurate because a different individual or position has
responsibility for the overall operation of the facility, or overall responsibility for environmental
matters for the applicant, a new authorization satisfying the requirements of this section must be
submitted to the MWRA prior to or together with the next report required of the applicant.

Date	Signature of Authorized Representative

2.	Check all operations/processes that are present at the facility:
	For Each operation/process that is present, please complete the insert that corresponds to the
	operation/process
	Commercial Photography (SIC # 7335)
	Photofinishing Laboratories (SIC # 7384)
	Doctors of Medicine; Offices, Clinics (includes Radiologists (SIC # 8011)
	Dentists; Offices and Clinics (SIC # 8021)
	Health Practitioners, General Offices (SIC # 8049)
	Veterinary Services for Livestock (SIC # 0741)
	Veterinary Services for Animal Specialties (SIC # 0742)
	Commercial Art and Graphic Design (SIC # 7336)
	Testing Laboratories (X-ray inspection services, industrial) (SIC # 8734)
	Laundry
	
	Educational Facility (check all below that are included in the facility):
	Photography Lab
	Health Center
	Graphic Design and Commercial Art Labs
	Labs (chemistry, biology, research, etc.)
	Dentist/Doctor Office
	Maintenance Shop (Automotive/Equipment)
	Other(s), please specify below:
	Infirmary
	,

SECTION C - OVERALL OPERATIONAL CHARACTERISTICS page 4

1.	Operating Information: If usage is variable, please comment: (for example, main operation is between September and May or open 24 hours)					
a. Total operating hours per work day b. Operating shift schedule:						
	first shift	start	stop			
	second shift	start	_ stop			
	third shift		stop			
	c. Operating days per w d. Average annual work e. Number of employees	days per ye				
SE	CTION D - WATER	USAGE				
1.	Water Sources:					
				amount contributed from each source end of June. Indicate the year. (100		
	Source		Name	Annual Water Use 7/1/6/30/		
	Municipal (Town or City)			100 ft ³		
	Private Water Company			100 ft ³		
	Surface Water (Lake of Pond)			gallons		
	On Site Well			gallons		
	Other Source			gallons		
			TOTAL:			
2.		pollutants in no	the discharge tha	ar? This information can be helpful in the raw		

SECTION E - CHEMICAL USAGE

1.	Submit copies of any reports that indicate chemical usage of chemicals covered under the Superfund Amendment and Reauthorization Act (SARA) Title III including the quantities used per year.
	Examples of reports that should be submitted, if they exist for your facility, include:
	Biannual DEP Report Inventories with Local Fire Departments SARA Title III Report Other Reports/Inventories which would illustrate chemical usage on premises
Plea	ase list the reports that you have submitted:

SECTION F - SANITARY SEWER CONNECTION(S)

1. Attach a map of the campus or facility showing all buildings and include a key which describes the operations conducted in each building. In the buildings where process (as opposed to sanitary) wastewater discharges, label alphabetically, the connections to which the processes discharge. Also label the nearest downstream manhole with the same letter. If there are more than 26 connections, begin the series with AA, BB, etc. Indicate if both process and sanitary wastewater discharge through a common connection. Name all surrounding streets and buildings, and any other pertinent physical structures that may facilitate field orientation.

SECTION G - NON-DISCHARGED WASTE

1.	Are any waste liquids or sludges removed from the facility site? yes no
	If yes, attach a copy of the Biennial Report for Hazardous Waste required by DEP.
2.	How is liquid, sludge and clean-up hazardous and non-hazardous waste removed from facility?
3.	Does the facility implement any of the following management plans?
	Chemical Hygiene Plan (OSHA)
	Other Waste Management Policies
	Please attach a table of contents for each waste management policy checked. You are required to keep copies of each plan on site so that they may be reviewed by the MWRA or request.
4.	State the name and address of any waste hauler(s) contracted by your facility.
_	
5.	Are any sludges, liquids or spill clean up materials placed with the trash for disposal? yes no
	Describe discarded waste:
	State name and address of hauler for this waste:
	

		_		
SECI	FION.	G	(cont.)	
\circ		\sim	(001 11.)	

page 8

6.	Does your facility employ the service of a commercial laundry? yes no
	State the name and address of the company:
7	Does your facility have it's own laundry on the premises? yes no

INSERT 1

PHOTODEVELOPING

For each photodeveloping process, please provide the following information. Please refer
to the key which explains how the information should be provided. If more space is
needed, please photocopy this table and attach:

1	2	3	4	5	6	7
TYPE OF PROCESS	HOURS OF OPERATION	HOURS OF DISCHARGE (USE N/D IF NO DISCHARGE)	BUILDING	CONNECTION (FROM MAP ON PAGE 6)	FLOW	PT

KEY:

Column 1 - Process

Enter the codes provided below:

C-41 Color Film Developing
 RA-4 Color Paper Processing
 EP-2 Color Paper Processing
 R-3 Prints from Color Slides
 MICRO Microfilm Processing
 MICRO REV Microfilm Reverse Proc.
 B&W FILM Black & White Film Proc.
 B&W PAPER Black & White Paper Proc.

K-14 Color Transparency Proc X-RAY X-Ray Processing

E-6 Color Transparency Proc. PLEASE WRITE IN ANY "OTHER"

Column 2 - Hours of Operation

Enter the time of day (ie. 8:00AM - 4:00PM) that each operation is running. Please remember to use AM and PM.

Column 3 - Hours of Discharge

Enter the time of day (ie. 2:00PM - 3:00PM) that each operation is discharging to the sewer. If it is the same as column 2, write "same". If it is an intermittent discharge, write "I" and the hours in which there is

intermittent discharge (ie. I - 1:30PM - 4:30PM)

INSERT 1

PHOTODEVELOPING

Column 4 - Building

Write the name of the building that the operation is located in, as you named the building in Section F.

Column 5 - Connection

Identify the connections by the letters you used to mark the connections on the map in Section F.

Column 6 - Flow

Use the following ranges to identify the daily flow rate:

< 10 gallons per day (gpd) 501-1000 gpd 10-50 gpd 1001-5000 gpd

51-100 gpd If > 5000 gpd, specify how much

101-500 gpd

Column 7 - PT

Enter the codes provided below to identify all types of pretreatment used for each process:

SR Silver Recovery Cartridges **ESR** Electrolytic Silver Recovery **IE** Ion Exchange (Conventional Regeneration)

E/D Evaporation/Distillation

CP Chemical Precipitation

pHC Chemical Addition pH Neutralization

pHL Limestone Chip pH Neutralization

NT No Pretretment

O Other - Describe Here:

For each process, indicate the characteristic of the wastewater that is discharged. (for example: rinsewater, fixer, developer)

3. How was each flow determined in the above table (column 6)?

4. Attach Maintenance Schedules for each pretreatment system identified in column 7.

5. Are there any process changes planned for the next five years which would effect wastewater volume or characteristics yes_____ no____

If yes, please describe:

6. Attach Material Safety Data Sheets (MSDS) for chemicals used in all processes identified in column 1.

Attach analytical results for pH and silver for wastewater samples collected of each process

discharge to the sewer after pretreatment.

Page 1	1
	Page '

	TYPE OF LAB	BUILDING NUMBER/NAME	# OF LABS	ROOM NUMBER	PRETREATMEN	
2.	. Indicate below types and numbers of laboratories that are present in each building. Along with the type of pretreatment.					
	Medical/0 Engineer	y stry (include both Ge	,			
1.	discharge or have the potential to discharge process wastewater to the sanitary sewer.					

List of various forms pretreatment

- 1. Neutralization/pH adjustment
- 2. Chemical precipitation
- 3. Ion exchange

- 4. Silver Recovery
- 5. Filtration
- 6. Sedimentation
- 7. Other, please explain:
- 3. Are limestone chip tanks (LCT) installed at the lab sinks. (This question can be answered in a variety of ways. For example, certain buildings may have LCT at each sink, while other buildings may have selectively chosen sinks that have LCT).

INSERT 2	LABORATORIES	page 2

4. Please explain below or attach the facility's policy on storing and disposing of hazardous waste generated at the facility.

- 5. Does any laboratory equipment require cooling water? If yes, please answer the following for each piece of equipment:
 - -Locations of equipment (which lab)
 - -Type of equipment
 - -Cooling water recirculated or discharged
 - -Where does it discharge? (Sewer, Stormdrain, Other)
 - -Flow and frequency of discharge

INSERT 3 COOLING SYSTEMS Page 1

Are any cooling systems/towers present in the facility?					
	yes	no			

If yes, please list each cooling system/tower and the building in which it is located. Also answer the following questions as it pertains to each cooling system/tower.

- volume of water used (capacity of system/tower)
- tonnage of equipment
- location of equipment
- Bleed volumes and frequencies
- Discharge points
- chemicals used (include MSDS)

Are there any boilers present in the facility? (NOTE: The MWRA is interested in boilers other than what would be found in a household).
yesno
If yes, how many?
List all the buildings in which boilers are present.
What are the use(s) of the boilers present in the facility?
Hot water
Steam Other, please explain
What type(s) of boilers are present in the facility?
Low pressure
High pressure Firetube boiler
Watertube boiler
Other, please explain
Is there any treatment of boiler feed water?
Softening
If yes, what method?
Demineralization
If yes, what method?
Is the boiler feed water (make-up) metered?
What is the daily average used?
Is condensate returned to the system? At what percent?

5. (continued)	Is there any regeneration of the water softening system in-house?
	What is frequency of regeneration?
	What is the volume of brine discharged to sewer?
	Where is the discharge plant located?
5. Is there any rege	eneration of the demineralization system in-house? Is it on service?

6. Is there any pretreatment of the boiler blowdown prior to discharge to the sewer? If yes, please describe below:

INSERT 5 LAUNDRIES page 1

1. What are the hou	s of operation of the laun	dry facility?		
2. In what building is	the laundry located?			
Please list the che chemical/deterge			se include MSDS for each	
	of pretreatment, prior to di		H adjustment, lint screen, others?)	
pH Adjustment _		_		
lint screen				
Other (explain)				
Please provide a	brief description of the pro	etreatment process be	elow:	
5. What is average o	daily flow of wastewater di	ischarged?	gpd	
6. How was the was	tewater flow determined?	Estimated	or Measured	
By what method v	vas the water measured?		-	
7. What is average t	emperature of wastewate	r?		

INSERT 6 (Automotive, Equipment)

MAINTENANCE SHOP/MACHINE SHOP page 1

_no		
sses that a	are conducted i	n the repair shops:
on Repair igh Pressı	·	erature Washing
nair chons	s located?	
pan shope	o locatou:	
	·	s discharge location.
Sewer	Storm drain	Hauled as Hazardous Waste
_yes	ifiers, compress	
_yes quire cooli	ifiers, compress no ng water?	sors or similar equipment in use?
	le Mainten on Repair igh Pressu g pair shops in the repa	sses that are conducted in the Maintenance/Repair on Repair igh Pressure-High Tempo

MAINTENANCE SHOP (Automotive, Equipment) page 2

5. Is there any pretreatment of wastewater?yesno
Check the various types of pretreatment that are used:
1. Neutralization/pH adjustment 6. Silver Recovery 2. Chemical precipitation 7. Screen/Grit Removal 3. Sedimentation 8. Grease Trap 4. Filtration 9. Gas\Oil Separator 5. Ion Exchange 10. Other
6. Is there a routine washdown of the work area?yesno
If yes, what is the frequency?
What is the volume discharged?
Is there any pretreatment? (explain)
7. Are any degreasing operations performed?yesno
If yes, please check the type of degreasing performed:
Caustic soakVapor degreasing Safety KleenBake-off oven Jet SpraySteam cleaner Solvent degreasing Other
8. Are there any floor drains in the shop?yesno
Where do they discharge?

9. If any chemicals are stored in the shop, please list describe the spill containment measures that are followed.

INSERT 7

INCOMING WATER TREATMENT SYSTEMS page 1

If yes, what type?	Reverse Osmsosis De-ionized Other		
2. Please list the location ar	nd type of incoming water	treatment systems that are present in the fa	acility.
Location/Building	Type of Water Treatment System	Is there a discharge?	
Are there any discharges systems?yes		aintenance of the incoming water treatment	
Identify the type of stre	ams that are discharged:		
incoming rejection description descr	ion water		
	question #2 that is discha page may be attached, if I	arged to the sewer, please provide the follow necessary)	wing
 frequency of discharge duration of discharge total volume of discharge location of each discharge 	arge		
5. Is water kept in a holding	tank and drawn-off as nee	eeded?yesno	
6. Is the water produced on	an as-needed basis?	yesno	
7. Is the treated water mete	red?yes	_no	
8. If there are no reject stream		ater treatment systems, explain the mainten	nance

1. Are there any incoming water treatment systems in the facility? _____yes _____no

INSERT 8 PRINTING page 1

Are any printing operations performed in the facility?yesno
If yes, what type?off-setletterpressother, please explain
2. Are there any auxiliary operations associated with the printing operations?yesno
If yes, what type?film processingplate developingsilkscreeningother
3. Please list the buildings in which printing operations occur:
4. If there are photodeveloping operations, please complete INSERT 1.
5. If there are silkscreening operations, please complete INSERT 9.
6. If plate developing is done, what type of plates are used?
7. Please list the chemicals used in the printing operations. Please also attach the MSDS for each.
8. Is developer washed off and discharged to the sewer?yesno
If yes, what is the volume and frequency of the discharge?
If no, how is developer removed from the plates?
9. If rags are used to clean the plates, how are the rags disposed of?
Hauled as hazardous wasteRubbish disposalLaunderedOther
If the rags are laundered, list the name & address of the company:

GRAPHIC ARTS/SILKSCREENINGpage 1

1. /	Are any graphic art/siikscreening operations performed in the facility?yesno
2.	Please list the buildings in which graphic art/silkscreening operations occur:
3.	Please attach MSDS for all chemicals used in the graphic art/silkscreening operations.
4. \	What type of photo sensitive coating is used for silkscreening?
	Paper Liquid
	If liquid, what volume?
	Is the liquid discharged to the sewer?yesno
	At what frequency and volume is the liquid discharged?
5. \	What type of developer is used?
	If the developer is discharged to the sewer, what is the volume and frequency of the discharge?
6.	How is the screen cleaned after printing? If a solvent is used, please explain the solvent's destination (hauled, sewered, etc.)
7. /	Are the screens reused or thrown away? If they are thrown away, please describe the disposal practices.
8.	Please list any equipment that discharges noncontact cooling water to the sewer, the volume discharged and the frequency of the discharge:
	Equipment Volume, gpd Frequency

INSERT 9

GRAPHIC ARTS/SILKSCREENING page 2

9. What types of paints and/or inks	are used?		
oil-based water-based other			
10. Is there any discharge to the se	ewer via routine area wash	down, spills, etc.? yes _	no
If yes, please describe the dis	charge, its volume, and fre	equency of the discharge:	
Type of <u>Discharge</u>	Volume, gpd	<u>Frequency</u>	

11. Please explain the procedures followed to ensure that dumping and/or spilling of chemicals to the sewer does not occur.

POTTERY/CERAMICS/JEWELRY MAKING page 1

1. Are any pottery, ceram	cs and/or jewelry making ope	erations performed in the facility?
If yes, please indicat	e which operations are perfor	med:
Pot Cer Jew		
2. Please attach MSDS fo	r all chemicals used in the po	ttery, ceramics and jewelry making operations.
3. Please list the buildings	s in which pottery, ceramics a	nd/or jewelry making operations occur:
Building	<u>Operation</u>	Does the Operation <u>Discharge to Sewer?</u>
4. In reference to Questio discharge and its frequ		lischarged to the sewer, the volume of the
5. Is any hazardous waste	e generated from these opera	tions?yesno
If yes, please descrik	pe the type of wastes and coll	ection procedures followed.
6. Are any electroplating of	or metalfinishing operations po	erformed?yesno
If yes, please comple	ete INSERT 11.	
7. Please explain the processewer does not occur.	edures followed to ensure that	at dumping and/or spilling of chemicals to the

INSERT 11 OPERATIONS

ELECTROPLATING/METAL FINISHING page 1

Are electroplating or metalfinishing operations performed in the facility?yes	no
2. Please list the buildings in which electroplating and/or metal finishing operations take	e place.
3. Please attach MSDS for chemicals used in the electroplating/metalfinishing operation	ns.
4. What was or will be the date of commencement of the electroplating/finishing proces facility?	ses at your
5. List the base materials that are finished:	
6. List finishes:	
7. Indicate the metal finishing operations conducted:	
ElectroplatingElectroless PlatingAnodizingCoating (chromating, phosphating & colorChemical etching millingPrinted Circuit Board Manufacturing	ring)
8. Indicate the auxiliary processes associated with the finishing operations:	
cleaningsolvent degreasingweldingsolderingpolishingpolishingmachininggrindinghot dip coatingother	
Please explain other:	
9. Is there a wastewater discharge from these processes?yesno	
If no, please explain what happens to the spent baths, rinses, etc.	

INSERT 11 OPERATIONS

ELECTROPLATING/METAL FINISHING page 2

	no	
11. Indicate the types of treatment included	in the pretreatment system:	
chromium reductionflocculationelectrolytic recoveryneutralization/pH adjustmentother		
12. What is the average daily flow from the	pretreatment system?gpd	
12. What is the average daily now norm the	pretieatinent system:gpu	
,	he end of the treatment system?yes	nc
,	he end of the treatment system?yes	nc