UWCHLAN TOWNSHIP

WASTEWATER CONTRIBUTION QUESTIONNAIRE

UWCHLAN TOWNSHIP
715 N. SHIP ROAD
EXTON, PA 19341-1940

GENERAL: Uwchlan Township is updating its records to determine the nature and extent of wastewater discharged to its sewer system and to determine compliance with the Township's sewer use ordinance, Ordinance No. 70-6, as amended. This questionnaire must be completed by each non-residential waste discharger to enable the Township to establish the nature of the sewer system discharge.

INSTRUCTIONS: Please complete all sections. Requests for confidential treatment of information shall be governed by procedures specified in 40 CFR Part 2. The completed and signed questionnaire is to be mailed to: Mr. Douglass Hanley, Township Manager, [redacted] Questions regarding completion of the questionnaire should be directed to: [redacted] at telephone number ([redacted] during the hours of 8:00 a.m. to 4:00 p.m. Monday through Friday. (610) 363 9450

SECTION A—GENERAL INFORMATION

1. Company Name: _____
2. Mailing Address: _____
   _____ Zip Code: _____
3. Facility Address: (If different from mailing address) _____
   _____
4. Name and Title of Signing Official: _____
   _____ Telephone No.: ( ) _____
5. Alternate person to contact concerning information provided herein:
   Name and Title: _____
   _____ Telephone No.: ( ) _____
6. Check one: ☐ Existing Discharge If proposed discharge, anticipated date of discharge commencement:
   ☐ Proposed Discharge _____

SECTION B—PRODUCT OR SERVICE INFORMATION

1. Check all activities which are present at your facility:

☐ Electroplating	☐ Manufacturing	☐ Repair Shop, Garage	☐ Wholesale Trade
☐ Flammables, Explosives	☐ Medical Care	☐ Research	☐ Other (Specify)
☐ Food Processing	☐ Military	☐ Residential	_____
☐ Food Service	☐ Office Unit	☐ Retail Trade	_____
☐ Government	☐ Painting, Finishing	☐ Vehicle & Equipment Washdown	
☐ Laboratory	☐ Plant Washdown	☐ Warehousing	
☐ Laundry, Cleaning	☐ Printing, Photo		

Company Name: _____

SECTION B—PRODUCTION OR SERVICE INFORMATION (Cont'd)

2. Describe all operations at this facility, including primary products or services, which produce liquid waste discharges:

_____

_____

_____

_____

_____

3. Indicate applicable Standard Industrial Classification (SIC) Code(s) for processes generating liquid waste: (If more than one applies, list in descending order of importance. Attach additional sheets if necessary.)

a. _____ b. _____ c. _____

d. _____ e. _____ f. _____

4. List all materials, including industrial process chemicals, chemical additives and catalysts, water treatment chemicals, chemical impurities, and cleaning agents (other than household type) stored or used at this facility. Appendix A illustrates an example of such a list. (Attach additional sheets if necessary.)

MATERIAL	QUANTITY (indicate units)	USE

5. Attach a schematic water and wastewater flow diagram, and show all possible sources of water and wastewater flow, including overflows. The diagram should include a water balance so that all water sources and discharges are accounted for. The schematic should also identify the industrial process steps. An example of a flow diagram is attached as Appendix B.

SECTION C—PLANT OPERATIONAL CHARACTERISTICS

1. Shift Information: a. Number of shifts per work day: ☐ 1 ☐ 2 ☐ 3

b. Work days: ☐ Monday ☐ Tuesday ☐ Wednesday ☐ Thursday ☐ Friday ☐ Saturday ☐ Sunday

c. Average number of employees per shift: 1st _____ 2nd _____ 3rd _____

d. Shift start times: 1st _____ 2nd _____ 3rd _____

e. Shift end times: 1st _____ 2nd _____ 3rd _____

2. Is operation subject to seasonal variation: ☐ Yes ☐ No

If "yes", indicate: Months of peak operation _____

Maximum wastewater flow (gallons per day) _____

3. Does operation shutdown for vacation, maintenance, or other reasons? ☐ Yes ☐ No

a. If "yes", indicate period when shutdown occurs: _____

4. Are any process changes or expansions planned during the next three (3) years that would alter wastewater volumes or characteristics? Consider production processes, as well as air or water pollution processes.

☐ Yes ☐ No (If "no", skip item C-5.)

 Company Name: _____

SECTION C—PLANT OPERATIONAL CHARACTERISTICS (Cont'd)

5. Briefly describe these changes and their effects on the wastewater volume and characteristics: (Attach additional sheets if necessary.)

_____

_____

_____

_____

_____

6. Are any materials or water reclamation systems in use or planned?

☐ Yes ☐ No (If "no", skip item C-7.)

7. Briefly describe recovery process, substance recovered, per cent recovered and the concentration in the spent solution. Submit flow diagram for each process: (Attach additional sheets if necessary.)

_____

_____

_____

_____

_____

8. Has a Spill Prevention Control and Countermeasure Plan been prepared for the facility? ☐ Yes ☐ No

SECTION D—WATER USAGE

1. Water Sources: (Check as many as are applicable.)

☐ Uwchlan Township Municipal Authority; ☐ Private Well; ☐ Surface Water;

☐ Other Water Utility (Specify): _____

2. Name on the water bill: _____

3. Water Service Account Number(s): (Attach additional sheets if necessary.)

(1) _____ (2) _____ (3) _____ (4) _____

(5) _____ (6) _____ (7) _____ (8) _____

(9) _____ (10) _____ (11) _____ (12) _____

4. If water is supplied by landlord, give name and address:

Name: _____

Street: _____

City: _____ Zip Code: _____

5. List estimated average water usage on premises:

TYPE	ESTIMATED AVERAGE WATER USAGE (gallons per day)	TYPE	ESTIMATED AVERAGE WATER USAGE (gallons per day)
a. Cooling Water . .	_____	e. Plant and Equipment Washdown . .	_____
b. Boiler Feed	_____	f. Irrigation and Lawn Watering	_____
c. Process	_____	g. Other (Specify): _____	_____
d. Sanitary	_____	h. Total of a. through g.	_____

Company Name: _____

SECTION D – WATER USAGE (Cont'd)

6. List average volume of wastewater discharge or water losses to:

OUTLET	ESTIMATED AVERAGE VOLUME (gallons per day)	OUTLET	ESTIMATED AVERAGE VOLUME (gallons per day)
a. Municipal Sewer		e. Evaporation	
b. Watercourse, Storm Drain, Ground		f. Contained in Product	
c. Waste Haulers		g. Other (Specify): _____	
d. Septic Tank		h. Total of a. through g.	

7. List average water usage and average wastewater discharge for SIC processes itemized in Section B: (Attach additional sheets if necessary.)

	PROCESS A	PROCESS B	PROCESS C
a. Process Description			
b. SIC			
c. Is process	☐ Batch ☐ Continuous ☐ Both	☐ Batch ☐ Continuous ☐ Both	☐ Batch ☐ Continuous ☐ Both
d. If batch, number per day			
e. Average water use (gal/day)			
f. Average wastewater discharge (gal/day)			
g. Peak wastewater discharge (gal/hour)			
h. Is wastewater discharge	☐ Batch ☐ Continuous ☐ Both	☐ Batch ☐ Continuous ☐ Both	☐ Batch ☐ Continuous ☐ Both
i. If batch, number per day			

8. Describe any water treatment or conditioning processes utilized: _____

Company Name: _____

SECTION E—SEWER INFORMATION

1. Attach a scaled drawing, if available, or sketch of your plant site showing the location of all sewers. Assign a sequential reference number to each sewer starting with No. 1. Also show location of possible sampling points for SIC processes (D-7).

   For reference and field orientation, buildings, streets, alleys, and other pertinent physical structures should be included.

2. By reference number, list size, descriptive location and flow of each sewer shown in item E-1. (If more than 3, attach additional information on another sheet.)

REFERENCE NUMBER	SEWER SIZE (inches)	DESCRIPTIVE LOCATION OF SEWER CONNECTION OR DISCHARGE POINT	AVERAGE FLOW (gallons per day)
1.			
2.			
3.			

SECTION F—WASTEWATER INFORMATION

1. Does this facility discharge any wastewater other than from restrooms or cafeterias?

   ☐ Yes If the answer to this question is "yes", complete the remainder of the application.

   ☐ No If the answer to this question is "no", you may skip to Section I, on page 11.

2. Please indicate the quantities discharged from the activities indicated below in units of gallons per day. (Refer to Section D, items 5, 6, and 7.) The quantities are to be given for each sewer receiving the discharge. Place an asterisk on any outfall discharging to a storm drain or surface course and give the NPDES Permit Number.

TYPE	DISCHARGE QUANTITY BY SEWER REFERENCED IN E-2						TOTAL (REFER TO D-5, 6 & 7)
	1	2	3				
Process (from D-7):							
a.							
b.							
c.							
Sanitary							
Boiler							
Cooling/Uncontaminated Water							
Plant and Equipment Washdown							
Air Pollution Control Liquid Waste							
Other (Specify): _____							
Total (Refer to E-2)							
*NPDES Permit Number:							

Company Name: _____

SECTION F—WASTEWATER INFORMATION (Cont'd)

3. Does your facility have any floor drains which tie into the sanitary sewer system? ☐ Yes ☐ No

If "yes", please specify locations, drain pipe sizes, and floor drain use. Also, indicate what protective measures have been taken to prevent the discharge of chemical spills or leaks to the sanitary sewer system through these drains.

_____

_____

_____

_____

_____

_____

Company Name: _____

SECTION G—WASTEWATER PRETREATMENT

1. Is any form of pretreatment (see list below) practiced at this facility? ☐ Yes ☐ No

   For each waste stream treated before discharge check the appropriate boxes for types of pretreatment used at this facility:

	WASTE STREAM IDENTIFICATION SEWER REFERENCE NUMBER FROM E-2			
	1	2	3	OTHER
Gas/Oil Interceptor	☐	☐	☐	_____
Grease Trap	☐	☐	☐	_____
Sedimentation	☐	☐	☐	_____
Filtration	☐	☐	☐	_____
Chemical Addition*	☐	☐	☐	_____
Neutralization/pH adjustment	☐	☐	☐	_____
Biological*	☐	☐	☐	_____
Equalization	☐	☐	☐	_____
Silver Recovery	☐	☐	☐	_____

Other (Specify) _____

*Specify: _____

2. Is any form of pretreatment planned for this facility within the next three (3) years? ☐ Yes ☐ No

3. Please furnish process flow diagram for each existing or planned pretreatment system. Include process equipment by-products, by-product disposal method, concentrations, waste and by-product volumes, design and operating conditions.

SECTION H—CHARACTERISTICS OF DISCHARGES

1. General Discharge Information. For each waste stream (from E-2), indicate the constituents that are or could be present in the wastewater discharge as a result of your operations by checking the appropriate boxes next to the constituents:

	SEWER REFERENCE NUMBER FROM E-2			
CONSTITUENT	1	2	3	OTHER
Algicides	☐	☐	☐	_____
Ammonia	☐	☐	☐	_____
Coolants (Oil, Chemical or Mineral Based)	☐	☐	☐	_____
Disinfectants	☐	☐	☐	_____
Dissolved Metals and Cyanide*	☐	☐	☐	_____
Dyes, paints, or inks	☐	☐	☐	_____
Flammable Substances	☐	☐	☐	_____
Fluorides	☐	☐	☐	_____
Grindings or Metal Shavings	☐	☐	☐	_____

Table continued on page 7

Company Name: _____

SECTION H—CHARACTERISTICS OF DISCHARGES (Cont'd)

CONSTITUENT	SEWER REFERENCE NUMBER FROM E-2 1	2	3	OTHER
High pH (caustics, etc.)	☐	☐	☐	
High Temperature Wastes	☐	☐	☐	
Hydrocarbons	☐	☐	☐	
Low pH (acids)	☐	☐	☐	
Nitrates	☐	☐	☐	
Oil or Grease (chemical or vegetable origin)	☐	☐	☐	
Oil or Grease (petroleum or mineral origin)	☐	☐	☐	
Pesticides	☐	☐	☐	
PCB's	☐	☐	☐	
Phosphorus	☐	☐	☐	
Radioactive Substances**	☐	☐	☐	
Rubber, Latex, Plastic, Glass, etc.	☐	☐	☐	
Salt Brines	☐	☐	☐	
Shredded Garbage	☐	☐	☐	
Solvents**	☐	☐	☐	
Sulfates	☐	☐	☐	
Sulfides	☐	☐	☐	
Surfactants (detergents)	☐	☐	☐	
Others _____	☐	☐	☐	
_____	☐	☐	☐	
_____	☐	☐	☐	

*Metals include: Arsenic, Cadmium, Chromium, Copper, Lead, Manganese, Mercury, Nickel, Silver, and Zinc.

**Specify: _____

_____

2. Please indicate by checking the appropriate box by each listed chemical whether it is known or suspected present in the wastewater discharge or if it is used in your manufacturing or service activity or generated as a by-product but not discharged. Some compounds are known by other names.

ITEM NO.	CHEMICAL COMPOUND	Known Discharged	Suspected Discharged	Used but not Discharged	ITEM NO.	CHEMICAL COMPOUND	Known Discharged	Suspected Discharged	Used but not Discharged
1.	asbestos (fibrous)	☐	☐	☐	16.	acenaphthene	☐	☐	☐
2.	cyanide (total)	☐	☐	☐	17.	acenaphthylene	☐	☐	☐
3.	antimony (total)	☐	☐	☐	18.	acrolein	☐	☐	☐
4.	arsenic (total)	☐	☐	☐	19.	acrylonitrile	☐	☐	☐
5.	beryllium (total)	☐	☐	☐	20.	aldrin	☐	☐	☐
6.	cadmium (total)	☐	☐	☐	21.	anthracene	☐	☐	☐
7.	chromium (total)	☐	☐	☐	22.	benzene	☐	☐	☐
8.	copper (total)	☐	☐	☐	23.	benzidine	☐	☐	☐
9.	lead (total)	☐	☐	☐	24.	benzo (a) anthracene	☐	☐	☐
10.	mercury (total)	☐	☐	☐	25.	benzo (a) pyrene	☐	☐	☐
11.	nickel (total)	☐	☐	☐	26.	3,4-benzofluoranthene	☐	☐	☐
12.	selenium (total)	☐	☐	☐	27.	benzo (g,h,i) perylene	☐	☐	☐
13.	silver (total)	☐	☐	☐	28.	benzo (k) fluoranthene	☐	☐	☐
14.	thallium (total)	☐	☐	☐	29.	a-BHC (alpha)	☐	☐	☐
15.	zinc (total)	☐	☐	☐	30.	b-BHC (beta)	☐	☐	☐
15a.	manganese (total)	☐	☐	☐	31.	d-BHC (delta)	☐	☐	☐

Table continued on page 8

Company Name: _____

SECTION H—CHARACTERISTICS OF DISCHARGES (Cont'd)

ITEM NO.	CHEMICAL COMPOUND	Known Discharged	Suspected Discharged	Used but not Discharged
32.	g-BHC (gamma)	☐	☐	☐
33.	bis (2-chloroethyl) ether	☐	☐	☐
34.	bis (2-chloroethoxy) methane	☐	☐	☐
35.	bis (2-chloroisopropyl) ether	☐	☐	☐
36.	bis (2-ethylhexyl) phthalate	☐	☐	☐
37.	bromodichloromethane	☐	☐	☐
38.	bromoform	☐	☐	☐
39.	bromomethane	☐	☐	☐
40.	4-bromophenyl phenyl ether	☐	☐	☐
41.	butyl benzyl phthalate	☐	☐	☐
42.	carbon tetrachloride	☐	☐	☐
43.	chlordane	☐	☐	☐
44.	4-chloro-3-methylphenol	☐	☐	☐
45.	chlorobenzene	☐	☐	☐
46.	chloroethane	☐	☐	☐
47.	2-chloroethyl vinyl ether	☐	☐	☐
48.	chloroform	☐	☐	☐
49.	chloromethane	☐	☐	☐
50.	2-chloronaphthalene	☐	☐	☐
51.	2-chlorophenol	☐	☐	☐
52.	4-chlorophenyl phenyl ether	☐	☐	☐
53.	chrysene	☐	☐	☐
54.	4,4'-DDD	☐	☐	☐
55.	4,4'-DDE	☐	☐	☐
56.	4,4'-DDT	☐	☐	☐
57.	dibenzo (a,h) anthracene	☐	☐	☐
58.	dibromochloromethane	☐	☐	☐
59.	1,2-dichlorobenzene	☐	☐	☐
60.	1,3-dichlorobenzene	☐	☐	☐
61.	1,4-dichlorobenzene	☐	☐	☐
62.	3,3'-dichlorobenzidine	☐	☐	☐
63.	1,1-dichloroethane	☐	☐	☐
64.	1,2-dichloroethane	☐	☐	☐
65.	1,1-dichloroethene	☐	☐	☐
66.	1,2-trans-dichloroethylene	☐	☐	☐
67.	2,4-dichlorophenol	☐	☐	☐
68.	1,2-dichloropropane	☐	☐	☐
69.	(cis & trans) 1,3-dichloropropene	☐	☐	☐
70.	dieldrin	☐	☐	☐
71.	diethyl phthalate	☐	☐	☐
72.	2,4-dimethylphenol	☐	☐	☐
73.	dimethyl phthalate	☐	☐	☐
74.	di-n-butyl phthalate	☐	☐	☐
75.	di-n-octyl phthalate	☐	☐	☐
76.	4,6-dinitro-o-cresol	☐	☐	☐
77.	2,4-dinitrophenol	☐	☐	☐
78.	2,4-dinitrotoluene	☐	☐	☐
79.	2,6-dinitrotoluene	☐	☐	☐
80.	1,2-diphenylhydrazine	☐	☐	☐
81.	a-endosulfan (alpha)	☐	☐	☐
82.	b-endosulfan (beta)	☐	☐	☐
83.	endosulfan sulfate	☐	☐	☐
84.	endrin	☐	☐	☐
85.	endrin aldehyde	☐	☐	☐
86.	ethylbenzene	☐	☐	☐
87.	fluoranthene	☐	☐	☐
88.	fluorene	☐	☐	☐
89.	heptachlor	☐	☐	☐
90.	heptachlor epoxide	☐	☐	☐
91.	hexachlorobenzene	☐	☐	☐
92.	hexachlorobutadiene	☐	☐	☐
93.	hexachlorocyclopentadiene	☐	☐	☐
94.	hexachloroethane	☐	☐	☐
95.	indeno (1,2,3-cd) pyrene	☐	☐	☐
96.	isophorone	☐	☐	☐
97.	methylene chloride	☐	☐	☐
98.	naphthalene	☐	☐	☐
99.	nitrobenzene	☐	☐	☐
100.	2-nitrophenol	☐	☐	☐
101.	4-nitrophenol	☐	☐	☐
102.	N-nitrosodimethylamine	☐	☐	☐
103.	N-nitrosodi-n-propylamine	☐	☐	☐
104.	N-nitrosodiphenylamine	☐	☐	☐
105.	PCB-1016	☐	☐	☐
106.	PCB-1221	☐	☐	☐
107.	PCB-1232	☐	☐	☐
108.	PCB-1242	☐	☐	☐
109.	PCB-1248	☐	☐	☐
110.	PCB-1254	☐	☐	☐
111.	PCB-1260	☐	☐	☐
112.	pentachlorophenol	☐	☐	☐
113.	phenanthrene	☐	☐	☐
114.	phenol	☐	☐	☐
115.	pyrene	☐	☐	☐
116.	2,3,7,8-tetrachlorodibenzo-p-dioxin	☐	☐	☐
117.	1,1,2,2-tetrachloroethane	☐	☐	☐
118.	tetrachloroethylene	☐	☐	☐
119.	toluene	☐	☐	☐
120.	toxaphene	☐	☐	☐
121.	1,2,4-trichlorobenzene	☐	☐	☐
122.	1,1,1-trichloroethane	☐	☐	☐
123.	1,1,2-trichloroethane	☐	☐	☐
124.	trichloroethylene	☐	☐	☐
125.	2,4,6-trichlorophenol	☐	☐	☐
126.	vinyl chloride	☐	☐	☐

Company Name: _____

SECTION H—CHARACTERISTICS OF DISCHARGES (Cont'd)

3. List those chemical compounds indicated in the previous item as being discharged and provide the following information. If the concentration is not known, provide an estimate. Include also concentrations of the additional characteristics listed below.

Item No.	Characteristic or Chemical Compound	Annual Usage (lbs.)	Discharge Concentration	Item No.	Chemical Compound	Annual Usage (lbs.)	Discharge Concentration
N/A	BOD_5	N/A					
N/A	Suspended solids	N/A					
N/A	Total solids	N/A					
N/A	Ammonia	N/A					
N/A	Chlorine demand	N/A					
N/A	Oil & grease	N/A					
N/A	MBAS	N/A					
N/A	Color	N/A					

4. If any wastewater analyses have been performed on the wastewater discharges from your facilities, attach a copy of the most recent data to this application. Be sure to include the date of the analysis, name of laboratory performing the analysis and location(s) from which sample(s) were taken. (Attach sketches, plans, etc. as necessary.)

5. List the temperature range and pH range of your discharge for each discharging point. (Attach additional sheets if necessary.)

REFERENCE NUMBER (Refer to E-2)	TEMPERATURE RANGE			pH RANGE		
	LOW	AVERAGE	HIGH	LOW	AVERAGE	HIGH
1						
2						
3						

6. Does your company keep a continuous record of wastewater pH? ☐ Yes ☐ No

 Company Name: _____

SECTION I—NON-DISCHARGED WASTES

1. Are any wastes, by-products or sludges received or generated and not disposed of in the sewer system? ☐ Yes ☐ No

   If "no", skip the remainder of Section I. If "yes", these may best be described and quantified as:

	ESTIMATED QUANTITY PER YEAR (Indicate Units)		ESTIMATED QUANTITY PER YEAR (Indicate Units)
☐ Waste Solvent		☐ Paints	
☐ Waste Product		☐ Acids and Alkalies	
☐ Oil		☐ Plating Wastes	
☐ Grease		☐ Pesticides	
☐ Pretreatment Sludge		☐ Other (Specify):	
☐ Inks/Dyes			
☐ Thinner			
☐ Heavy Metals			
☐ Organic Compounds			

2. Describe method of storing these wastes, including storage locations, size and type of containers, and methods for containing leaks and spills.

3. Does your company remove any of the above checked wastes from the facility? ☐ Yes ☐ No

   Describe: _____

4. Are any of the above checked wastes placed with trash for disposal? ☐ Yes ☐ No

   Describe: _____

5. Does your company practice on site disposal for any of the above checked wastes? ☐ Yes ☐ No

   Describe: _____

Company Name: _____

6. If an outside firm removes any of the above checked wastes, state the name(s) and address(es) of all waste haulers:

1. _____ 2. _____

_____ _____

_____ zip code: _____ _____ zip code: _____

Permit No. (if applicable): _____ Permit No. (if applicable): _____

7. Do any of your substances require Resource Conservation and Recovery Act permits? ☐ Yes ☐ No

If "yes", please specify: _____

_____

_____

_____

EPA Generator Number: _____

SECTION J—CERTIFICATION

I have personally examined and am familiar with the information submitted in this document 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.

_____ _____

Date Signature of Official (Seal if applicable)

APPENDIX A—EXAMPLE OF A RAW MATERIAL INVENTORY

RAW MATERIAL	FREQUENCY AND AMOUNT USED	USE
Nickel Sulfate	75 GPD	Nickel Source in Plating Tank 1 and 4
Boric Acid	50 GPD	Cleaning Solution in Acid Cleantank (Ni Line)
Sodium Hypophosphate	10 GPD	Nickel Reducing Agent in Plating Tank 1
Citric Acid	25 GPD	Ni Chelating Agent in Plating Tank 1
Formaldehyde	40 GPD	Cu Reducing Agent in Plating Tank 2
Benzene	5 GPD	Cleaning Agent/Lab Solvent
Carbon Tetrachloride	5 GPD	Cleaning Solution (55 Gal Drums in Work Area)
Chloroform	Lab Quantities	Lab Solvent/Rinse Baths #2 & 8
Ethyl Benzene	Lab Quantities	Lab Solvent
Acetaldehyde	20 GPD	Cu Reducing Agent in Plating Tank 3
Sodium Cyanide	80 GPD	Cyanide "Strike" Source in Plating Tank 2
Chromic Acid	100 GPD	Chrome Source in Plating Tank 5
Copper Sulfate	100 GPD	Copper Sources in Plating Tank 3
Potassium Cyanide	40 GPD	Cyanide "Strike" Source in Plating, Tank 2
Trichloroethylene	20 GPD	Degreaser in Rinse Tanks 4, 5, 10 & 11
Acetone	Lab Quantities	Lab Solvent
Acetic Acid	20 GPD	Acid Cleaning Tank (Ni Line) & Dip Tank (Cu, Cr Line)
Sulfuric Acid	30 GPD	pH Adjustment in Neutralization Tank & Cyanide Destruction—TRMT Tank
Sodium Hydroxide	20 GPD	Alkaline Clean Tank 1 & 2 and Treatment Tanks 1 & 2 (pH Adjustment)
Nitro Benzene	Lab Quantities	Lab Reagent
Iron Sulfate	70 lbs/day	Coagulant and Intreatment Tanks 1 & 2
Coagulant Aid*	150 lbs/day	Aid in Coagulation & Precipitation in Treatment Tanks 1 & 2
Fluorene	5 GPD	Cleaning Agent Prior to Plating Tanks

Contains: Activited Silica
Potassium Permanganate (Oxidant)
Diethyl Pthalate

Appendix B
Example of a Water Flow Diagram