CITY OF BOULDER

PUBLIC WORKS/UTILITIES
P. O. Box 791
Boulder, CO 80306

Water Quality and Environmental Services

4049 75th St., Boulder, 80301
Administration: 303-413-7350
Fax#: 303-413-7373

5605 63rd St., Boulder, 80301
Fax#: 303-530-1137

Stormwater Quality
Industrial Pretreatment
Wastewater/Environmental Lab

Drinking Water 303-413-7400
Water Conservation 303-413-7407

Wastewater Classification Survey

DIRECTIONS: All industrial users of the City of Boulder wastewater utility system are required to submit a completed Wastewater Classification Survey as required by the Boulder Revised Code Title 11 Chapter 3. The user is required to update the survey whenever significant changes are made in an industrial operation or process.

All industrial users must complete Section A through E and Section J. If wastewater is generated from sources other than restrooms, cafeterias, or food preparation areas, you must complete all sections.

Please return the completed survey along with payment of $100.00 to:

City of Boulder, Industrial Pretreatment Program
4049 75th St., Boulder, CO 80301

A. General Information

1. Business Name of Applicant: _____
2. Mailing Address: _____
3. Site Address: _____
4. Contact Information: _____

Name	Title	Phone	E-Mail

5. Existing Discharge ☐ Proposed Discharge ☐ Proposed Discharge Date: _____

B. Product / Service Information

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

☐ Assembly	☐ Food Processing	☐ Medical Care	☐ Photo Processing
☐ Biotechnology	☐ Gas Station	☐ Metal Finishing	☐ Repair Shop
☐ Chemical Manufacturing	☐ Government	☐ Office Unit	☐ Research
☐ Cooling Towers	☐ Laboratory	☐ Paint / Stripping / Finishing	☐ Restaurant
☐ Education / Vocation	☐ Laundry / Dry Cleaning	☐ Photography	☐ Retail Trade
☐ Electroplating	☐ Leather Tanning / Finishing	☐ Plant Wash Down	☐ Warehouse
☐ Engraving / Coating	☐ Machine Shop	☐ Plastics / Molding / Forming	☐ Wholesale Trade
☐ Flammable / Explosives	☐ Manufacturing	☐ Printing	☐ Wood Preserving / Finishing
☐ _____	☐ _____	☐ _____	☐ _____

2. Give a brief description of the operations at this facility including primary products or services:

_____

3. List applicable Standard Industrial Classification (SIC) code(s) for all processes. If more than one applies, list in descending order of importance.

   a. _____ b. _____ c. _____ d. _____

4. List principle raw materials used.

5. List any catalysts or intermediates if used or produces

C. Plant Operational Characteristics

1. Shift Information

	1st:	*2nd:*	*3rd:*
Shift start / end times:			
Avg. number of employees each shift:			
Days that shift is worked:			

2. Is operation subject to seasonal variation? Yes ☐ No ☐ Months of Peak Operation: _____

3. Are there shutdowns for vacation, maintenance, or other reasons? Yes ☐ No ☐ Period When Shut-Down Occurs: _____

4. Are Major Processes: Continuous ☐ Batch ☐ Number of Batches per Day: _____

D. Water Use

1. Water Sources: City of Boulder ☐ Private Well ☐ Other Water District: ☐ _____

2. Name on water bill: _____ Water Account Number: _____

3. If water is supplied by property owner, give name, address, and phone number.

   Name: _____

   Address: _____

   Phone: _____

4. List approximate water consumption in facility:

Equipment Type	Water Usage (gpd)	Equipment Type	Water Usage (gpd)
Boiler Feed		Rinse Water	
Cooling Water		Sanitary System	
Evaporation		Plant / Equipment Washdown	
Contained in Product		Other:	
Process Water		Other:	
Total Daily Water Usage:			

E. Wastewater Discharge

1. Is discharge to the sewer: Intermittent ☐ Steady ☐ — Yes ☐ No ☐
2. Does this facility generate any wastewater other than from restrooms, cafeterias, or food preparation areas? — Yes ☐ No ☐
3. Are there any changes proposed which will cause generation of wastewaters other than from restrooms, cafeterias, or food preparation areas? — Yes ☐ No ☐

   If Yes, explain proposed changes and date they will become effective: Date:

If the answer to either question E-2 or E-3 is yes, please complete the entire survey. If not, you may skip to Section I.

F. Wastewater Generation and Information

1. Attach a diagram of the facility, indicating each area where wastewater is generated and disposed. Identify floor drains, sinks, locations of internal or external sewers, and locations of sampling points, if any, for each drainage area. Assign a unique name or number to each process area or drainage point. (001, metal finish, etc) ☐
2. Briefly describe individual industrial processes generating wastewater (excluding boiler and cooling wastewater.) Also, indicate approximate quantity of wastewater discharge from each process in gallons per day.

	Description of Area or Process:	Drainage Area Ref # (from diagram):	Discharge Volume (gpd):
a.			
b.			
c.			
d.			

Attach additional sheets if necessary.

3. For each drainage area (from F-1) indicate the type and quantity of the constituents that are or could be present in wastewater discharges as a result of process operation.

Drainage Area Reference #	Constituent	Flow (gpd)	Concentration (mg/L)
	Algicide		
	Ammonia		
	Chlorides		
	Cyanide		
	Disinfectants		
	Dissolved Metals*		
	Flammable Substances		
	Fluorides		
	High pH (caustics, etc)		
	High Temperature Wastes		
	Hydrocarbons		
	Low pH (acids, etc)		
	Nitrates		
	Nitrites		
	Oil or Grease (animal or vegetable origin)		
	Oil or Grease (petroleum or mineral origin)		
	PCB's		
	Phenols		
	Phosphorus		
	Radioactive Substances		
	Rubber, Latex, Plastic, Glass, etc.		
	Salt Brines		
	Shredded Garbage		
	Solvents		
	Sulfates		
	Sulfides		
	Surfactants (detergents)		
	Wastes high in organic content		

* Metals include: Arsenic (As), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Copper (Cu), Lead (Pb), Manganese (Mn), Mercury (Hg), Molybdenum (Mo), Nickel (Ni), Selenium (Se), Silver (Ag), and Zinc (Zn).

4. Identify any solutions or chemicals used in processing (not covered above) that are discharged to the city sewer.

Drainage Area Reference #	Constituent	Flow (gpd)	Concentration (mg/L)

Drainage Area Reference #	Constituent	Flow (gpd)	Concentration (mg/L)

5. Estimate the loads contributed from process wastewater discharge for the following constituents:

	Daily Max (lbs/day)	7-Day Max (lbs/day)	30-Day Max (lbs/day
5-day Biochemical Oxygen Demand (BOD5)			
Total Suspended Solids (TSS)			
Ammonia (NH3-N)			
Total Kjeldahl Nitrogen (TKN)			

G. Wastewater Pretreatment

1. Are any forms of wastewater pretreatment (See list below) practiced at this facility? Yes ☐ No ☐

   If NO, skip question G-2 and proceed to Section I.

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

Type of Pretreatment	Drainage Area Reference # (from diagram in F-1)						
Biological	☐	☐	☐	☐	☐	☐	☐
Chemical Addition	☐	☐	☐	☐	☐	☐	☐
Equalization	☐	☐	☐	☐	☐	☐	☐
Filtration	☐	☐	☐	☐	☐	☐	☐
Gasoline Trap	☐	☐	☐	☐	☐	☐	☐
Grease Trap	☐	☐	☐	☐	☐	☐	☐
Ion Exchange	☐	☐	☐	☐	☐	☐	☐
Metal Precipitation	☐	☐	☐	☐	☐	☐	☐
Neutralization / pH Adjust.	☐	☐	☐	☐	☐	☐	☐
Oil Separation	☐	☐	☐	☐	☐	☐	☐
Other (Specify)	☐	☐	☐	☐	☐	☐	☐
Reverse Osmosis	☐	☐	☐	☐	☐	☐	☐
Sand Trap	☐	☐	☐	☐	☐	☐	☐
Sedimentation	☐	☐	☐	☐	☐	☐	☐
Silver Recovery	☐	☐	☐	☐	☐	☐	☐
Solvent Recovery	☐	☐	☐	☐	☐	☐	☐

3. Attach diagrams of all pretreatment systems. Each diagram should include a schematic of the pretreatment system an all related inputs and outputs. Be sure to detail the incoming process waste streams (average daily flows and potential pollutants) and include any waste streams generated during treatment that are then returned for treatment (i.e., filter press filtrate). Please show all outputs (i.e., hazardous waste generated and water returned for reuse. ☐

H. EPA Priority Pollutant Information

1. For each chemical listed below that is used in your manufacturing or generated as a by-product, please indicate whether the chemical is discharged to the municipal sewer system or is used but not discharged to the sewer.

Item No.	Chemical Compound	Discharged	Used but NOT Discharged
1	Asbestos (fibrous)	☐	☐
2	Cyanide (total)	☐	☐
3	Antimony (total)	☐	☐
4	Arsenic (total)	☐	☐
5	Beryllium (total)	☐	☐
6	Cadmium (total)	☐	☐
7	Chromium (total)	☐	☐
8	Copper (total)	☐	☐
9	Lead (total)	☐	☐
10	Mercury (total)	☐	☐
11	Nickel (total)	☐	☐
12	Selenium (total)	☐	☐
13	Silver (total)	☐	☐
14	Thallium (total)	☐	☐
15	Zinc (total)	☐	☐
16	Acenaphthene	☐	☐
17	Acenaphthylene	☐	☐
18	Acrolein	☐	☐
19	Acrylonitrile	☐	☐
20	Aldrin	☐	☐
21	Anthracene	☐	☐
22	Benzene	☐	☐
23	Benzidine	☐	☐
24	benzo (a) anthracene	☐	☐
25	benzo (a) pyrene	☐	☐
26	benzo (b) fluoranthene	☐	☐
27	benzo (g,h,i) perylene	☐	☐
28	benzo (k) fluoranthene	☐	☐
29	a-BHC (alpha)	☐	☐
30	b-BHC (beta)	☐	☐
31	d-BHC (delta)	☐	☐
32	g-BHC (gamma)	☐	☐
33	bis(2-chloroethyl) ether	☐	☐
34	bis(2-chloroethoxy)methane	☐	☐
35	bis(2-chlorisopropyl)ether	☐	☐
36	bis(2-ethylhexyl)phthalate	☐	☐
37	bromoform	☐	☐
38	4-bromophenylphenyl ether	☐	☐
39	butylbenzyl phthalate	☐	☐
40	carbon tetrachloride	☐	☐
41	chlordane	☐	☐
42	chlorobenzene	☐	☐
43	chlorodibromomethane	☐	☐
44	chloroethane	☐	☐
45	2-chloroethylvinylether	☐	☐
46	chloroform	☐	☐
47	2-chloronapthalene	☐	☐
48	2-chlorophenol	☐	☐
49	4-chlorophenylphenyl ether	☐	☐
50	chrysene	☐	☐
51	4,4' DDD	☐	☐
52	4,4' DDE	☐	☐
53	4,4' DDT	☐	☐
54	dibenzo (a,h) anthracene	☐	☐
55	dichlorobromothane	☐	☐
56	1,2-dichlorobenzene	☐	☐
57	1,3-dichlorobenzene	☐	☐
58	1,4-dichlorobenzene	☐	☐
59	3,3'-dichlorobenzidene	☐	☐
60	1,1-dichloroethane	☐	☐
61	1,2-dichloroethane	☐	☐
62	1,1-dichloroethylene	☐	☐
63	1,2-trans-dichloroethylene	☐	☐
64	2,4-dichlorophenol	☐	☐
65	1,2-dichloropropane	☐	☐
66	1,3-dichloropropylene	☐	☐

Item No.	Chemical Compound	Discharged	Used but NOT Discharged
67	dieldrin	☐	☐
68	diethyl phthalate	☐	☐
69	2,4-dimethylphenol	☐	☐
70	dimethyl phthalate	☐	☐
71	di-n-butyl phthalate	☐	☐
72	di-n-octyl phthalate	☐	☐
73	4,6-dinitro-o-cresol	☐	☐
74	2,4-dinitrophenol	☐	☐
75	2,4-dinitrotoluene	☐	☐
76	2,6-dinitrotoluene	☐	☐
77	1,2-diphenylhydrazine	☐	☐
78	alpha-endosulfan	☐	☐
79	beta-endosulfan	☐	☐
80	endosulfan sulfate	☐	☐
81	endrin	☐	☐
82	endrin aldehyde	☐	☐
83	ethylbenzene	☐	☐
84	fluroranthene	☐	☐
85	fluorene	☐	☐
86	heptachlor	☐	☐
87	heptachlor epoxide	☐	☐
88	hexachlorobenzene	☐	☐
89	hexachlorobutadiene	☐	☐
90	hexachlorocyclopentadiene	☐	☐
91	hexachloroethane	☐	☐
92	indeno (1,2,3 -cd) pyrene	☐	☐
93	Isophorone	☐	☐
94	Methyl bromide	☐	☐
95	Methyl chloride	☐	☐
96	methylene chloride	☐	☐

Item No.	Chemical Compound	Discharged	Used but NOT Discharged
97	naphthalene	☐	☐
98	nitrobenzene	☐	☐
99	2-nitrophenol	☐	☐
100	4-nitrophenol	☐	☐
101	n-nitrosodimethylamine	☐	☐
102	n-nitrosodi-n-propylamine	☐	☐
103	n-nitrosodiphenylamine	☐	☐
104	PCB-1016	☐	☐
105	PCB-1221	☐	☐
106	PCB-1232	☐	☐
107	PCB-1242	☐	☐
108	PCB-1248	☐	☐
109	PCB-1254	☐	☐
110	PCB-1260	☐	☐
111	p-chloro-m-cresol	☐	☐
112	pentachlorophenol	☐	☐
113	phenanthrene	☐	☐
114	phenol	☐	☐
115	pyrene	☐	☐
116	1,1,2,2-tetrachloroethane	☐	☐
117	tetrachloroethylene	☐	☐
118	toluene	☐	☐
119	toxaphene	☐	☐
120	1,2,4-trichlorobenzene	☐	☐
121	1,1,1-trichloroethane	☐	☐
122	1,1,2-trichloroethane	☐	☐
123	trichoroethylene	☐	☐
124	2,4,6-trichlorophenol	☐	☐
125	vinyl chloride	☐	☐

2. List those chemical compounds indicated in the previous question as being discharged and provide the following information.

Item No.	Chemical Compound	Annual Usage	Discharge Concentration

L. Non-Discharge Wastes

1. Are there any liquid wastes or sludges generated at this facility? Yes ☐ No ☐

   If NO, skip the remainder of Section I and proceed to Section J.

   If YES, check the following items that best describe the waste and identify the quantity generated.

	Waste	Units Per Month		Waste	Units Per Month
☐	Grease		☐	Plating wastes	
☐	Oil		☐	Pretreatment Sludge	
☐	Solvent		☐	Pesticides	
☐	Inks / Dyes		☐	Waste Product	
☐	Paints		☐	Other (Specify)	
☐	Thinner		☐		
☐	Acids & Alkalies		☐		

2. How are the wastes checked above removed from the facility?

   ☐ Placed with trash for disposal

   ☐ Treated, stored, or disposed of on-site (specify) _____

   ☐ Removed by an outside hazardous waste hauler to a waste management facility.

3. Does the facility have an EPA Identification number? Yes ☐ EPA ID #: _____ No ☐

4. If an outside firm removes or disposes of any of the above checked wastes, state the name(s) and addresses of all waste haulers. Indicate the wastes picked up and the frequency.

	Waste Hauler Name	Address	Type of Waste	Frequency of Pick-Up
a.				
b.				
c.				
d.				

   Attach additional sheets if necessary.

5. Is a chemical spill control plan prepared for the facility? Yes ☐ No ☐

J. Certification

Note to signing official: Information and data identifying the nature and frequency of a discharge to the wastewater utility shall be available to the public. Requests for confidential treatment of information, other than discharge data, shall be made according to procedures outlines in Section 11-3-16(b) of the Boulder Revised Code.

I hereby certify that the information found in this application is familiar to me, is complete, and represents an accurate statement of fact to the best of my knowledge.

Printed Name	Title	Signature	Date

"Authorized representative of industrial user means either a principal executive officer of at least the level of vice-president, if the industrial user is a corporation; a general partner or proprietor, if the industrial user is a partnership or proprietorship; or a duly authorized representative, if such representative is responsible for the overall operation of the facilities from which any direct or indirect discharge originates." – Boulder Revised Code 11-3-2