

Wastewater Discharge Permit / Chemical Storage Permit Part A - Application

	rn the completed application b	у	See r	everse side for further instruction.
A1.	Applicant Business Name:			
A2.	Address of premise dischar A. Street:	ging wastewater:		
	City:		State: _	Zip:
A3.	Business Address: A. Street:			
	City:		State: _	Zip:
	B. Mailing:			
	City:		State: _	Zip:
A4.	Chief Executive Officer: A. Name:		Title:	
	Mailing Address:			
A5.	Person to be contacted abo	ut this application:	Phone:	
	A. Name:	_	Title:	
A6.	Person to be contacted in c A. Name:	O ,	Title:	
	Day Phone:			hone:
41	er - Landard et de la de			
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INSTRUCTIONS FOR COMPLETING PART A

SECTION 1. APPLICATION

Type or print the information requested.

- A1. Applicant Business Name Enter the name or title of your business.
- A2. Address of Premise Discharging Wastewater Enter the full street address of the building or premise which is producing the wastewater pertinent to this application.
- A3. Business Address Enter the business street address and the full mailing address.
- A4. Chief Executive Officer Enter the name, title, and full mailing address of the Applicant's Chief Executive Officer in the home office. (This is often not the same address as given in A3.)
- A5. Person to be contacted about this Application Give the name of the person who is thoroughly familiar with the facts reported on these forms and to whom the Agency staff can contact.
- A6. Person to be contacted in case of an Emergency Give the name, title, and telephone number(s) of the responsible person who can be contacted in case of an emergency. (e.g. spilling of a prohibited substance)

Certification — The Application must be signed and dated by an officer, employee, or other agent of the business who has legal authority to bind the Applicant business. Also, print or type the name and title of the person signing the Application.

Return the Application and required Part(s) to:

City of Livermore Water Resources Division 101 W Jack London Blvd Livermore, CA 94551 Phone: (925) 960-8100 Fax: (925) 960-8105

SECTION 2. PERMIT

DO NOT COMPLETE THIS PART. IT WILL BE COMPLETED BY THE CITY OF LIVERMORE. THE ORIGINAL WILL BE RETURNED TO YOU



Wastewater Discharge Permit / Chemical Storage Permit Part B – Business Description

Purpose - The Business Description is primarily u	used to determine	substances,	which may	enter in	ito the
wastewater discharge from the Business Activity.	The production	quantities are	e necessary	for Stat	te and
Federal Reports. Further instructions are on rever-	se side.				

Avg. Max. Avg. Max (b) Description: Describe the wastewater generating operations. Indicate variations in production at operations during the year. (Use additional sheets as necessary). (c) Substances Proposed to be discharged: Give common and technical names of any materials or products proposed to be discharged to the sewer. Briefly describe the physical and chemical properties of each substance and product. NAME DESCRIPTION B2. Discharge Period (a) Discharge occurs daily from	TYPE OF PRODUCTS PAST CALENDAR YEAR Amount Avg. Max. Observations during the year. (Use additional sheets as necessary). (c) Substances Proposed to be discharged: Give common and technical names of any mat products proposed to be discharged to the sewer. Briefly describe the physical and chemic properties of each substance and product. NAME DESCRIPTION B2. Discharge Period (a) Discharge occurs daily from	
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properties of each substance and product. NAME	properties of each substance and product. NAME DESCRIPTION B2. Discharge Period (a) Discharge occurs daily from to (b) Check the days of the week that the discharge occurs: \Box M \Box T \Box M \Box T \Box B B3. Variation of Operation: business activity is \Box Continuous throughout the year \Box B Discharge occurs during the months of: \Box J \Box F \Box M \Box A \Box M \Box J \Box B Comments: B4. Liquid Waste Disposal – List the type and volume of liquid waste removed from the premise the community sewers or disposal site.	
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Discharge occurs during the months of: J	Discharge occurs during the months of: J	□s
means other than community sewers or disposal site.	means other than community sewers or disposal site.	
DESCRIPTION I VOLUVIE (081/110) I REVIOVED DI (118111E 8110 8001ESS) I DISPOSAL S		es by
		es by SPOSAL SI

INSTRUCTIONS FOR COMPLETING PART B:

General Instructions – Type or print the information. A separate Part B is to be completed for each major business activity. Examples of major business activities are: paint manufacturing, metal plating, and food canning, etcetera.

- B1. Business Activity Describe the principal activity on the premise. For the purpose of completing this Part, an activity is a major business class of manufacture (see examples above).
 - (a) Product List the types of products, giving the common or brand name and the proper or scientific name. Enter from your records, the average and maximum daily amounts produced for this activity for the previous calendar year, and the estimated production for this calendar year. Attach additional pages if necessary.
 - **(b)** Description Describe the wastewater generating process occurring on the premises, including any seasonal variation in wastewater discharge volumes, plant operations, raw materials, and chemicals used in process and/or production.
 - EXAMPLE: At this location we manufacture paints, by a dispersion process in which pigments (magnesium silicates, iron oxides, titanium dioxide and organic pigments) are incorporated into a liquid media consisting of binders (alkyd, phenolic vinyl, acrylate and polyether) and thinners (acetate, aliphatic and/or aromatic hydrocarbons as well as water). All raw materials are purchased from an outside supplier. Production is uniform throughout the year. Wastewater is generated for discharge to the community sewer from the washing of the mixing vats. Consequently, all raw materials and products can find their way into the community sewers.
 - (c) Substance Proposed to be Discharged Give common (brand names) and technical names (chemical, scientific or proper names) of any materials and products proposed to be discharged to the sewer. Under "description", briefly describe the physical and chemical properties of each substance.

B2. Discharge Period

- (a) Enter the hours of the day during which waste from this Business Activity will be discharged to the sewer: e.g. from 0600 to 1700 hours (not 6 a.m. to 5 p.m.)
- (b) Check the days of the week that the wastewater discharge from this activity occurs.

B3. Variation in Operation

Indicate whether the business activity is continuous through the year of if it is seasonal. If the activity is seasonal, check the months of the year during which discharge occurs. Make any comments you feel are required to describe the variation in operation of your business activity.

B4. Liquid Waste Disposal – List the type and volume of liquid wastes removed from the premises other than by the community sewer. Under description, indicate the type of materials (scientific & common names) in the waste. Also, in the column headed "REMOVED BY", write the name and address of the company who hauls this material. If you do your own removal and disposal, indicate by writing your "Business Name".



Wastewater Discharge Permit / Chemical Storage Permit Part C - Schematic Flow Diagram

Purpose - The Schematic Flow Diagram shows the flow pattern of products through the facility and the various sources of wastewater. This information will enable the City of Livermore to assess the quality, volume and peak flows of the discharge.

Schematic Flow Diagram - For each major activity in which wastewater is generated, draw a diagram of the flow of materials and water from start to completed product, showing all unit processes generating wastewater. Number each unit process having discharges to the community sewer. Use these numbers when showing this unit process in the building layout in Part D. A blueprint or comparable schematic may be attached in lieu of making a diagram below.

be attached in fieu of making a diagram below.										
☐ Check box if attachments are included.										



Wastewater Discharge Permit / Chemical Storage Permit Part D - Building Layout

Purpose - The Building Layout shows the wastewater generating operations, which contribute to each building sewer. This building layout will also enable the City of Livermore and the applicant to select suitable sampling locations for determining and verifying wastewater strength. Further instructions are on reverse side.

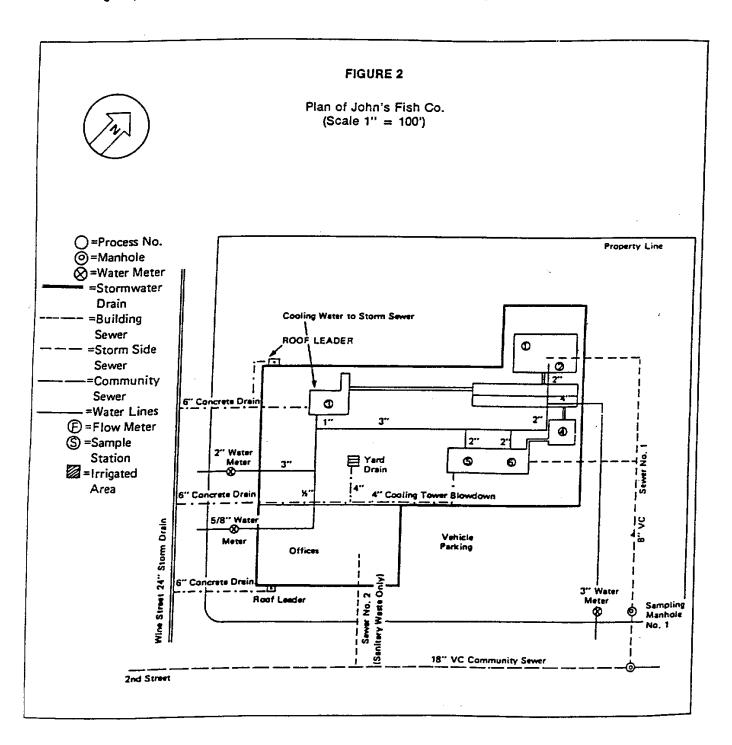
Building Layout – Draw to scale the location of each building on the premises. Show location of all water meters, storm drains, numbered unit processes (from Part C), community sewers and each building sewer connected to the community sewers. Number each building sewer and show sampling locations. A suitable attachment may be used in lieu of drawing the layout below. Note any such attachment in the space below by checking the box. Include chemical storage areas, any laboratories, and aboveground or underground storage tanks in the building layout.

☐ Check box if attachments are included.										

INSTRUCTIONS FOR COMPLETING PART D

General Instructions — Type or print the information.

Building Layout — A building layout or plant site plan of the premise is required to complete Part D. (Building Plans approved by the City of Livermore may be substituted for Part D.) An arrow showing north as well as the map scale must be shown. The location of each existing and proposed sampling manhole and building sewer must be clearly identified as well as all sanitary and wastewater drainage plumbing. Number each unit process discharging wastewater to the community sewer. Use the same numbering system shown in Part C (Schematic Flow Diagram). An example of the drawing required is shown below in figure 2.





Wastewater Discharge Permit / Chemical Storage Permit Part E – Water Source & Use

Purpose - The Water Source and Use Information will enable the City of Livermore to determine the volumes and sources of wastewater discharged to the community sewer. Further instructions are on reverse side.

E1. Water Use and Disposition - Average quantity of water received and wastewater discharged daily. Show on separate sheet the method and calculations used to determine the quantities on table.

		SUPPLY FR	OM	DISCHARGED TO					
		Other (1)		Comm. Sewer	Other (2)				
WATER USED FOR:	gal/day	gal/day	Source	gal/day	gal/day	Disch. To			
Sanitary									
Processes									
Boiler									
Cooling									
Washing									
Irrigation									
Product									
Other (3)									
TOTAL									

NOTES:

E2. Number of Employees: _____

(1)	Enter the quantity and the appropriate code letter indicating the source:	
	a. well, b. creek, c. estuary, d. bay, e. stormwater, f. reclaimed water	

(2)	Enter the quantity and the appropriate code letter indicating the discharge point:
	a. well, b. creek, c. estuary, d. bay, e. stormdrain, f. rail, truck, barge, g. evaporation, h. product
(2)	Describe

(3)	Describe:_	 		 	 	

		OFFICE	PRODUCTION (number of employees per shift)							
				DAY SHIFT	SV	WING SHIFT	NIGHT SHIFT			
	No.	Hours	No.	Hours	No.	Hours	No.	Hours		
Weekday		То		То		То		То		
Saturday	Saturday		То		То			То		

E3.

WATER METER		Total (%) discharged to all			
NUMBER	SEWER No. 1	SEWER No. 2	SEWER No. 3	SEWER No. 4	sewers

INSTRUCTIONS FOR COMPLETING PART E

General instructions: Type or print the information. Part E is to be completed by all dischargers who require a permit.

- E1. Water Use and Disposition Indicate water received and wastewater discharged in gallon per day for the preceding year. Specify in space provided the name of the agency providing primary water service.
 - The total supply should be checked using recent water bills to verify the amounts shown. If supply is not metered, show detailed estimate on separate sheet.
- E2. Number of Employees Enter the average number of office and production employees at the premises daily during the preceding year. If there is more than one shift per day, enter the average number of employees per shift and the duration.
- E3. Source of Wastewater Discharged Item E3 shows the percentage of source water on each water meter used for computing the sewage disposal service charge.
 - Step 1: Enter the number of each meter (municipal and private) serving the premise.
 - Step 2: For each meter enter the percentage of water discharged to each building sewer. If you have more than one building sewer, show on a separate page the method and calculations used to determine the proportioning to the side sewer.
 - Step 3: Enter the total percentage discharged to all building sewers for each water meter by adding the figures in each building sewer column.



Wastewater Discharge Permit / Chemical Storage Permit Part F – Building Sewer Discharge

							nation will enable ged to the comn						erse
F1. Build	ling Sewe tewater flo						(From Part	t D)					
PEAK HOURLY MAX. DA				AILY		ANN	IUAL DAILY AVG.	IF O	PERATI		SEASON lons/da	NAL AVERAGE D	AILY
gallons/	minute/		gallons	s/day			gallons/day		seasona	al min.		seasonal max.	
Α.		B.				C.		D.			E.		
F3 If Ba	tch Disch	arge	Indica	ıtο·							1	l .	
					٥.		no	r mor	nth.				
a. 1 h 7	Time of be	tob o	in also	race	e		pe	11101	iuii Ot				
b. 7	i ime oi ba	alch c	iischai	iges.		(Da	ys of week)		at _	,	(Hours	of day)	
· /	\versae a	wanti	ty nor	hate	h·	(Da	ys or week)	llone			(i iouis	or day)	
d. F	Tow rate:	Juanti	ty per	Date	'''	02	ga llons/minute.	1110113.					
or ca	n be pres	ent (x) in y	our w	vastev	wate	y of the following r discharge as a	resu	It of yo	our opera	tions	-	
CODE	CONST	ITUE	NTS	Х	CO	DE	CONSTITUEN	NTS	Х	CODE	CC	NSTITUENTS	X
ALGC	Algicides*				FOR	MA	Formaldehyde			RAD	Radio	activity*	
AL	Aluminum	1			HC		Hydrocarbons*			SE	Seler	nium	
NH₃N	Ammonia				I-		Iodide			AG	Silve	r	
SB	Antimony				FE		Iron			NA	Sodiu	ım	
AS	Arsenic				PB		Lead			SOLV	Solve	ents*	
BA	Barium				MG		Magnesium			SO ₄ =	Sulfa	te	
BE	Beryllium				MN		Manganese			S=T	Sulfic	le	
В	Boron				HG		Mercury			SO ₃ =	Sulfit	e	
BR-	Bromide				MO		Molybdenum			MBAS	Surfa	ctants MBAS	
CD	Cadmium				NI		Nickel			TEMP	Temp	erature	
CA	Calcium				O&G	М	Oil & Grease (Min	. Orig.)		TI	Titan		
CL ₂	Chlorine				O&G	Т	Oil & Grease (Tota			SN	Tin		
CL-	Chloride				PES	ГС	Pesticides*			٧	Vana	dium	
CR	Chromiun				На		pH Increase (+)			TVA	Volat	ile Acids	

CN Cyanide P Phosphorus C Cresols*

F- Fluoride K Potassium O Other*

*Identify the Chemical Compounds or Elements

Comments:

pH Decrease (-)

Phenols

PHENL

ΖN

Zinc

Total Nitrogen

CO

CU

Cobalt

Copper

INSTRUCTIONS FOR COMPLETING PART F

General Instructions – Type or print the information. Part F is to be completed by all businesses who require Wastewater Strength Determination. Use a separate sheet for each building sewer that discharges wastewater to a community sewer. (NOTE: A building sewer is a sewer conveying the wastewater of a discharger from a building or structure to a community sewer).

- F1. Building Sewer No. Enter the building sewer number for which this sheet of Part F has been completed. Use the same number as shown on Part D.
- F2. Wastewater Flow Rate Estimate the peak hourly discharge rates from the premise (i.e., the quantity which might be discharged during any one hour). The maximum daily rate is the greatest flow which might be discharged in any one work day. The annual daily average is the flow for an average workday taken over one year of operation. A season is defined as a period of one month or longer. Hourly and daily water supply meter readings may be used, provided the filling and discharge of storage tanks, process vats, et cetera, are taken into consideration.
- F3. Batch Discharge A batch discharge is one which results from the draining of storage tanks or process tanks; intermittent boiler blowdown, etc., to the building sewer.
 - a. Enter the number of batch discharges per month during the operating season of maximum flow.
 - b. Enter the days of the week the discharge occurs and the times of day the discharge usually occurs
 - c. Enter the average gallons discharged during each batch discharge operation.
 - d. Enter the rate of flow in the side sewer from the batch discharges, i.e.:

 Rate of flow from the batch discharge =

 No. of gallons in batch discharge duration for a single discharge
- F4. Wastewater Constituents Indicate, by checking the appropriate box, if your wastewater discharge contains any of the indicated constituents, characteristics, or substances as a result of the raw materials, processes or products used. Identify the algicides, cresols, hydrocarbons, pesticides, solvents, and radioactivity discharged, or other pollutants not listed, if any, in the waste stream.

Wastewater Discharge Permit / Chemical Storage Permit Part F – Building Sewer Discharge (continued)

F5. Wastewater Strength Estimates – Enter the average annual and maximum wastewater strength for this building for each of the following for the period covered by the permit. Further instructions are on reverse side.

ELEMENTS OF WASTEWATER STRENGTH	(CODE)	AVERAGE (mg/l)	MAXIMUM (mg/l)
Suspended Solids	(TSS)		
Total Chemical Oxygen Demand	(CODT)		
Filtered Chemical Oxygen Demand	(CODF)		
Oil and Grease	(O>)		
Chlorine Demand (See Instructions)	(Cl ₂ D)		
Biochemical Oxygen Demand	(BOD)		
Total Organic Carbon	(TOC)		•

(1) Any significant deviation from these values can result in termination of the permit.

b.

(2) If data from a commercial laboratory was used to determine the values, attach the laboratory analysis sheets.

F6. Po	Ilution Abatement Practices			
a.	Wastewater Pretreatment - C	check the type of treatment, i	f any, given wastewater from this bu	ilding
	sewer before it is discharged	to the community sewer:		
	□None	☐ Grinding	☐ Screening	

None	Grinding	Screening
Holding tank	Sedimentation	Chlorination
☐ Grease trap	☐ pH adjustment	
Oil/water separator	Biological treatment	
Description – Describe any preto and actual loading rates to the s schedule of routine maintenance mechanical pretreatment device	system or device. Attach a drav e for pretreatment systems, pH	
		es in treatment or disposal methods s building sewer. Attach a drawing if

INSTRUCTIONS FOR COMPLETING PART F (continued)

F5. Wastewater Strength Estimates – Enter the average and maximum concentration of each of the indicated elements of wastewater strength for this building sewer. The average strength should approximate the flow-composited strength during the year.

Flow-composited strength = Total milligrams of substance discharged for year

Total annual volume of water discharged in liters

The "Maximum Strength" is the maximum concentration that would be measured in any grab sample taken at any time during the year from this building sewer.

The "Chlorine Demand" of a wastewater is the amount of chlorine required to produce a free chlorine residual of 0.1 mg/l after a contact time of 15 minutes as measured by the lodometric Method on a sample at a temperature of 20°C in conformance with the Standard Method.

F6. Pollution Abatement Practices

- a. Wastewater Pretreatment Check the type of treatment, if any, given the wastewater from this building sewer before it is discharged to the community sewer.
 - Description The treatment facility should be described in sufficient detail to enable an estimation of the facility's effectiveness. This will require a description of the physical characteristics and size of the facility. (Attach sheet to show details of pretreatment process.)
- b. Planned Wastewater Treatment Improvements Attach additional sheets to show details of treatment or changes in wastewater disposal methods planned or under construction.



Wastewater Discharge Permit / Chemical Storage Permit Part G - Chemical Storage and Disposal

Purpose – To identify all new or used chemicals stored on-site, how stored, where stored, how much stored, ultimate disposal of waste chemicals, and precautions taken to prevent their entry into the sanitary or storm systems.

Material Safety Data Sheets (MSDS) – Attach an MSDS for each chemical stored on-site whether actually entering or potentially entering the sanitary system.
Chemical Storage Description - Describe each chemical storage area and above ground or underground storage tanks (all such areas should have been noted on Part D) including physical dimensions, covered or uncovered, bermed or unbermed, height of any berms, quantity of each chemical stored therein and how stored. Note all storm or sanitary drains close to each storage area. Attach sheets as necessary.
Safety Precautions - Describe all precautions taken to prevent accidental discharge of stored chemicals to the storm or sanitary systems. Include any personnel safety equipment or features.

G4. Hazardous Waste Disposal - Attach a copy of all hazardous waste hauling manifests for the past calendar year.

INSTRUCTIONS FOR COMPLETING PART G

General Instructions - Type or print the information for Part G. All dischargers applying for a wastewater discharge permit must complete this part.

- **G1.** A Material Safety Data Sheet (MSDS) must be attached for each chemical discharged, proposed to be discharged, or that could accidentally be discharged into the sanitary system. An MSDS should be available from chemical suppliers.
- **G2.** Give a complete description for each chemical storage area. Include in-house laboratories. If the area is bermed, note the height of the berm. Note double containment, special concrete coatings (fiberglass, etc.) or unusual features.
 - How stored means in drums, pails, bags, above ground tanks, etcetera. Note average quantities of each chemical stored. Note the proximity of all drains and where they discharge to.
- **G3.** Fully describe all safety precautions taken to prevent accidental discharge of pollutants to the sanitary or storm systems. Make note of any personnel safety equipment near the storage area such as eye showers, fire extinguishers and so forth.
- **G4.** If hazardous wastes were hauled from your premises during the past calendar year, then attach a copy of all such manifests.