SAN JOAQUIN COUNTY
WASTEWATER DISCHARGE PERMIT - APPLICATION

SAN JOAQUIN COUNTY PUBLIC WORKS DEPARTMENT
1810 E. HAZELTON AVENUE, STOCKTON CA 95205
PHONE: (209) 468-3000 or (209) 468-3090

PART A – APPLICANT INFO

Special District: _____

Return the completed application by: _____

A1. Applicant Business Name: _____

A2. Address of premise discharging wastewater: _____
Street City Zip

A3. Business/Mailing Address: _____
Street City Zip

A4. Authorized Officer: _____ _____ _____
Name Title Phone

A5. Person to be contacted about this application:

_____ _____
Name Title

_____ _____ _____
Phone Cell email

A6. Person to be contacted in case of emergency:

_____ _____
Name Title

_____ _____ _____
Daytime Phone Nighttime Phone Cell

A7. CERTIFICATION: I certify that the information above and on the following parts are true and correct to the best of my knowledge. IN WITNESS WHEREOF, San Joaquin County has caused this permit to be executed by its duly authorized officer, and Applicant has caused the same to be executed by its duly authorized person(s)/officer(s), all as of the day and year written below.

_____ _____ _____
Authorized Person Signature Print Name Date

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, food canning, etc.

B1. Business Activity - Describe the principal activity on the premises. For the purpose of completing this Part, an activity is a major business class of manufacture (see Examples above). Enter the Standard Industrial Classification (SIC) Code Number, as found in the 1972 Edition of the Standard Industrial Classification Manual prepared by the Executive Office of the President, Office of Management and Budget, which is available from the Government Printing Office at Washington, D.C. or at San Francisco, California - DO NOT USE PREVIOUS EDITION OF THE MANUAL. Copies are also available for examination at most public libraries.

(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. Attached 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) Circle 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 or if it is seasonal. If the activity is seasonal, circle 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. Other Liquid Wastes - 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 and common names) in the waste. Also, in the column headed "REMOVED BY", write the name and address of the company that hauls this material. If you do your own removal and disposal, indicate by writing your "Business Name".

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PART B - BUSINESS DESCRIPTION

Purpose - The Business Description is primarily used to determine substances which may enter into the wastewater discharge from the Business Activity. The production quantities are necessary for State and Federal Reports.

B1. Business Activity - (Complete a separate Part B for each major business activity occurring on the premise.)

ACTIVITY _____ SIC ___ ___ ___ ___

(a) Product

	QUANTITIES					
	PAST CALENDAR YEAR			EST THIS CALENDAR YEAR		
TYPE OF PRODUCTS (Brand Name)	Avg Amount	Max Amount	Units	Avg Amount	Max Amount	Units

(a) Description - Describe the wastewater generating operations. Indicate variations in production and operations during the year (Use additional sheets as necessary).

_____

_____

_____

(b) Substances Proposed to be Discharged - Give common and technical names of any materials or project 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 _____ to _____
(b) Circle the days of the week that the discharge occurs: S M T W T F S

(c) Proposed start date _____

B3. Variation of Operation
Indicate whether the business activity is:
Continuous throughout the year, or
Seasonal - Circle the months of the year during which discharge occurs:

J F M A M J J A S O N D

Comments: _____

B4. Other Liquid, Solid or semi solid Wastes - List the type and volume of liquid waste removed from the premises by means other than community sewers and disposal site (Add sheets as necessary).

DESCRIPTION	VOLUME (gal/mo)	REMOVED BY	DISPOSAL SITE ADDRESS

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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 County 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.

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PART D - BUILDING AND SITE PLUMBING LAYOUT

The Building and Site Plumbing Layout shows all wastewater piping, pretreatment process, sample points, storm drains, water lines, backflow preventers, water meters, and all other piping that transfer processed liquids, product, or waste. This layout will enable the County and the Applicant to identify all piping on the site.

Draw to scale (or provide a separate drawing to scale) the location of each building, all piping and equipment listed above, and numbered unit processes (from Part C). Number each building sewer.

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 gallons 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 charge.

Step 1 Enter the number of each meter (municipal and private) serving the premises.

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 sewers.

Step 3 Enter the total percentage discharged to all building sewers for each water meter by adding the figures in each building sewer column. 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.

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PART E - WATER SOURCE AND USE

Purpose - The Water Source and Use information will enable the County to determine the volumes and sources of wastewater discharged to the community sewer.

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

	SUPPLY FROM			DISCHARGED TO		
		Other (1)		Sewer	Other (2)	
WATER USED FOR:	gal/day	gal/day	Source	gal/day	gal/day	Discharge To
Sanitary						
Processes						
Boiler						
Cooling						
Washing						
Irrigation						
Product						
Other (3)						
TOTAL						

Notes:
(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
(3) Describe: _____

_____

E2. Number of Employees

	OFFICE		PRODUCTION (number of employees per shift)					
			DAY SHIFT		SWING SHIFT		NIGHT SHIFT	
	No.	Hours	No.	Hours	No.	Hours	No.	Hours
WEEKDAY								
SATURDAY								
SUNDAY								

E3. Source of Wastewater Discharged

Water Meter No.	Percent (%) Discharged to Building Sewer				TOTAL % DISCHARGED TO ALL SEWERS
	Sewer 1	Sewer 2	Sewer 3	Sewer 4	

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 or Part F has been completed. Use the same number as shown on PART D.

F2. Wastewater Flow Rate - Estimate the maximum daily 7 day average and 30 day average wastewater discharge rate from the premise. The maximum daily rate is the greatest flow which might be discharged in any one work day. The 7 day average is the total flow for seven work days divided by seven. The 30 day average is the total flow for thirty work days divided by thirty. 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, etc., 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 the 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 = $\frac{\text{No. of gallons in batch discharge}}{\text{duration for a single discharge}}$)

F4. Wastewater Constituents - Indicate, by checking the appropriate box, if your wastewater discharge is anticipated to contain any of the indicated constituents, characteristics, or substances as a result of the raw materials, processes or products used. Identify the algicides, hydrocarbons, pesticides, solvents, and radioactivity discharged, if any, in the wastewater.

F5. Wastewater Strength – This section must be completed based on laboratory testing. A minimum of one sample must be taken. Testing must be performed by an ELAP certified laboratory. The "Chlorine Demand" of a wastewater is the amount of chlorine required to produce a free chlorine residual of 0.1 mg/1 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.
b. Planned Wastewater Treatment Improvements - Attach additional sheets to show details of treatment or changes in wastewater disposal methods planned or under construction.

F7. Stormwater Area - Enter an estimate of the total area (in square feet) which collects and discharges stormwater to the building sewer (include roof and ground level areas.).

INSTRUCTIONS FOR COMPLETING PART F:

General Instructions – This portion must be completed within 60 days of initial operation. 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 or Part F has been completed. Use the same number as shown on PART D.

F2. Wastewater Flow Rate - Estimate the maximum daily 7 day average and 30 day average wastewater discharge rate from the premise. The maximum daily rate is the greatest flow which might be discharged in any one work day. The 7 day average is the total flow for seven work days divided by seven. The 30 day average is the total flow for thirty work days divided by thirty. A season is defined as a period of one month or longer. Actual values must be submitted within 60 days of initial operation. Hourly and daily water supply meter readings may be used, provided the filling and discharge of storage tanks, process vats, etc., 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 the 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 = $\frac{\text{No. of gallons in batch discharge}}{\text{duration for a single discharge}}$)

F4. Wastewater Constituents - Indicate, by checking the appropriate box, if your wastewater discharge is anticipated to contain any of the indicated constituents, characteristics, or substances as a result of the raw materials, processes or products used. Identify the algicides, hydrocarbons, pesticides, solvents, and radioactivity discharged, if any, in the wastewater.

F5. Wastewater Strength – Provide estimated values of the wastewater discharge. Actual values based on testing of discharge must be submitted within 60 days of initial operation. Sampling and testing of discharge must be performed by an ELAP certified lab. A minimum of one sample must be taken. Enter the maximum daily, 7 day average and 30 day average concentration of each of the indicated elements of wastewater strength for this building sewer. The average strength should approximate the 24 hour flow composited strength during the time period divided by the number of days.

The "Maximum Daily" is the maximum concentration that would be measured in any grab sample taken at any time during any day 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/1 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.
b. Planned Wastewater Treatment Improvements - Attach additional sheets to show details of treatment or changes in wastewater disposal methods planned or under construction.

F7. Stormwater Area - Enter an estimate of the total area (in square feet) which collects and discharges stormwater to the building sewer (include roof and ground level areas.).

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PART F - BUILDING SEWER DISCHARGE

Purpose - The Building Sewer Discharge information will identify the variation in flow rate and the type of constituents and characteristics of the discharge for each side sewer.

F1. Building sewer No. _____ (From Part D)

F2. Wastewater Flow Rate:

	Maximum Daily		7 Day Average		30 Day Average		IF OPERATIONS ARE SEASONAL AVERAGE DAILY (GALLONS/DAY)			
	gallons		gallons		gallons		seasonal min		seasonal max	
Estimated	A		B		C		D		E	
Actual*										

*to be submitted within 60 days of initial operation

F3. If Batch Discharge, Indicate:

(a) Number of batch discharges: _____ per month.

(b) Time of batch discharges: S M T W T F S at _____, _____, _____ (Hours of Day)

(c) Average quantity per batch: _____ gallons.

(d) Flow Rate: _____ gallons/minute.

F4. Wastewater Constituents

Indicate if any of the following constituents, characteristics or substances are or can be present.
(X) In your wastewater discharge as a result of your operations.

CODE	CONSTITUENTS		CODE	CONSTITUENTS		CODE	CONSTITUENTS	
ALGC	Algicldes*		FORMA	Formaldehyde		RAD	Radioactlvity*	
AL	Aluminum		HC	Hydrocarbons*		SE	Selenium	
NH3N	Ammonia		I-	Iodide		AG	Silver	
SB	Antimony		FE	Iron		NA	Sodium	
AS	Arsenic		PB	Lead		SOLV	Solvents*	
BA	Barium		MG	Magnesium		S04	Sulfate	
BE	Beryllium		MN	Manganese		S=T	Sulfide	
B	Boron		HG	Mercury		S03	Sulfite	
BR-	Bromide		MO	Molybdenum		MBAS	Surfactants MBAS	
CD	Cadmium		NI	Nickel		TEMP	Temperature	
CA	Calcium		O&G M	Oil (Min Orig)				
CL2	Chlorine		O&G T	Oil (Total)		TI	Thallium	
CL-	Chloride		PEST C	Pesticides*		SN	Tin	
CR	Chromium		PH	pH Increase (+)		V	Vanadium	
CO	Cobalt		PH	pH Decrease (-)		TVA	Volatile Acids	
CU	Copper		PHENL	Phenols		ZN	Zinc	
CN	Cyanide		P	Phosphorus		N	Total Nitrogen	
F-	Fluoride		K	Potassium		C	Cresols*	

*Identify the Chemical Compounds or Elements

Comments:

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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 elements of wastewater strength for the period covered by the Permit.

ANY SIGNIFICANT DEVIATION FROM THESE VALUES CAN RESULT IN TERMINATION OF THE PERMIT.

ELEMENTS OF WASTEWATER STRENGTH	**UNIT**	**CODE**	**Estimated**	**Actual***
Suspended Solids	mg/L	TSS		
Total Chemical Oxygen Demand	mg/L	COD T		
Filtered Chemical Oxygen Demand	mg/L	COD F		
Oil and Grease	mg/L	O&G T		
Biochemical Oxygen Demand	mg/L	BOD		
Total Organic Carbon	mg/L	TOC		
Total Dissolved Solids	mg/L	TDS		
Conductivity	µmhos/cm	EC		
Potential of Hydrogen	Min - Max	pH		

*To be submitted within 60 days of initial operation. Please provide the name and address of the commercial laboratory used to determine the values.

Name _____ Address _____ Zip _____

F6. Pollution Abatement Practices:

(a) Wastewater Pretreatment - Check the type of treatment, if any, given wastewater from this building sewer before it is discharged to the community sewer:

☐ None ☐ Holding Tank ☐ Grease Trap ☐ Oil & Water Separator ☐ Grinding
☐ Sedimentation ☐ pH Adjustment ☐ Chlorination ☐ Biological Treatment ☐ Other

Describe the loading rates, design capacity, physical size, etc. of each pretreatment facility checked above:

(b) Planning Wastewater Pretreatment Improvements - Describe any changes in treatment or disposal methods planned or under construction for the wastewater carried by this building sewer.

F7. Stormwater Area:

Total Area in square feet exposed to storm water and draining to the sewer: _____ square feet