

## ORANGE COUNTY SANITATION DISTRICT SLUG CONTROL PLAN INFORMATION

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Based on the conditions of your Wastewater Discharge Permit, and under the provisions of Section 403.B of Orange County Sanitation OC San's (OC San) Wastewater Discharge Regulations (Ordinance), you are required to develop and implement an accidental discharge/slug control plan (**Slug Control Plan**). The following provides information on slug discharges, the Slug Control Plan, and what is required to fulfill OC San's Slug Discharge Control program requirements.

A discharge to the sewer is considered to be a slug discharge if it is one of the following:

- Non-routine (not part of the routine process or waste discharge procedures)
- Episodic, one-time event (example: fire, earthquake, plant closure/modifications, or operational failures).
- A non-routine batch discharge of unusual volume or pollutant loading, which includes hazardous materials and those which violate a prohibition under 40 CFR 403.5(b), Special Prohibitions.
- Exceeds the prohibitions stated in Section 201

A **Slug Control Plan** is necessary to protect the sewers and OC San's wastewater treatment and reclamation facilities from any accidental or non-routine discharges to the sewer during or after events, including, but not limited to, the following:

- Accidental spills and leaks
- Earthquakes
- Fires
- Facility modifications and/or closures
- Operational failures
- Equipment/plant start-up

A **Slug Control Plan** will include at a minimum the following:

- (A) Description of discharge practices, including non-routine batch Discharges;
- (B) Description of stored chemicals;
- (C) Procedures for immediately notifying the POTW of Slug Discharges, including any Discharge that would violate a prohibition under §403.5(b) with procedures for follow-up written notification within five days;
- (D) If necessary, procedures to prevent adverse impact from accidental spills, including inspection and maintenance of storage areas, handling and transfer of materials, loading and unloading operations, control of plant site run-off, worker training, building of containment structures or equipment, measures for containing toxic organic pollutants (including solvents), and/or measures and equipment for emergency response;

There are two options to fulfill the **Slug Control Plan** requirements, Form B or Form C.

**Form B (Certification of Equivalent Slug Control Plan):**

An equivalent is a pre-existing document that already includes procedures equivalent to those found in a Slug Control Plan. Examples include an SPCC (Spill Prevention Control and Countermeasure) with the fire department, Emergency Business Plan, Emergency Response Plan, Emergency Contingency Plan, Risk Management Plan, or other plan required by a federal or state agency. In this case, complete Form B.

**Form C (Certification of Slug Control Plan):**

In the absence of an equivalent plan, you must develop a Slug Control plan (see Slug Control Plan Minimum Requirements attachment) with the above minimum requirements per 40 CFR 403.8(f)(2)(vi). In this case, complete Form C.

In addition to completing Form B or Form C, you must complete Form D “Slug Discharge Notification Procedure” and post this form in an area that is easily accessible and viewable by employees.

After completing the above requirements, please **submit either Form B or Form C**, a copy of an **equivalent Slug Control Plan per Form B or developed Slug Control Plan per Form C**, and a **copy of Form D** to OC San:

OC San  
18480 Bandilier Circle  
Fountain Valley, CA 92708

## 40 CFR 403.5(b) Text

(b) **Specific prohibitions.** In addition, the following pollutants shall not be introduced into a POTW:

(1) Pollutants which create a fire or explosion hazard in the POTW, including, but not limited to, wastestreams with a closed cup flashpoint of less than 140 degrees Fahrenheit or 60 degrees Centigrade using the test methods specified in [40 CFR 261.21](#);

(2) Pollutants which will cause corrosive structural damage to the POTW, but in no case Discharges with pH lower than 5.0, unless the works is specifically designed to accommodate such Discharges;

(3) Solid or viscous pollutants in amounts which will cause obstruction to the flow in the POTW resulting in Interference;

(4) Any pollutant, including oxygen demanding pollutants (BOD, etc.) released in a Discharge at a flow rate and/or pollutant concentration which will cause Interference with the POTW.

(5) Heat in amounts which will inhibit biological activity in the POTW resulting in Interference, but in no case heat in such quantities that the temperature at the POTW Treatment Plant exceeds 40 °C (104 °F) unless the Approval Authority, upon request of the POTW, approves alternate temperature limits.

(6) Petroleum oil, nonbiodegradable cutting oil, or products of mineral oil origin in amounts that will cause interference or pass through;

(7) Pollutants which result in the presence of toxic gases, vapors, or fumes within the POTW in a quantity that may cause acute worker health and safety problems;

(8) Any trucked or hauled pollutants, except at discharge points designated by the POTW.

**ORANGE COUNTY SANITATION DISTRICT**

**FORM B**

**CERTIFICATION  
OF  
EQUIVALENT SLUG CONTROL PLAN**

The certification shall be signed by the facility/organization principal Executive Officer, General Manager, or equivalent responsible corporate officer. All the statements in this certification are subject to the Orange County Sanitation District's verification and inspection.

FACILITY NAME: \_\_\_\_\_

ADDRESS: \_\_\_\_\_  
\_\_\_\_\_

TELEPHONE NUMBER: \_\_\_\_\_

PERMIT NUMBER: \_\_\_\_\_

I certify, under penalty of perjury under the laws of the State of California, that the above-noted facility has the following emergency or spill containment/response plans in place and implemented at the site (check appropriate boxes):

Emergency Business Plan

Emergency Response Plan

Emergency Contingency Plan

Risk Management Plan

Other federal or state plan

Name of Plan

For \_\_\_\_\_  
*(Name of federal, state or local agency)*

and that the plan(s) reported above is current and contains at a minimum, a procedure for notifying the Orange County Sanitation District of slug discharges, slug discharge control and prevention practices and procedures (including non-routine batch discharges), description of stored chemicals and materials, and procedures to prevent adverse impact of slug discharges, including handling and transfer of materials, loading and unloading operations, inspection and maintenance of storage and process areas, control of site run-off to the sewer, worker training, procedures to contain spills, and measures for emergency response.

I further certify under penalty of perjury under the laws of the State of California that the information provided in the plan(s) identified above, is to the best of my knowledge true and that the provisions of the plan(s) are being implemented as described. The plan(s) is/are on file and shall be made available to the Orange County Sanitation District and its representative for review and inspection whenever requested by the Orange County Sanitation District and/or its representative.

I further certify, under penalty of perjury under the laws of the State of California, that the spill containment and control equipment installed at this facility and slug control procedure being implemented under the provisions of the plan(s) noted above are sufficient to provide adequate protection to minimize the chance that a slug discharge will occur and cause damage to the District's collection system, upset treatment plant operations, or harm to human health and the environment.

\_\_\_\_\_  
(Name)

\_\_\_\_\_  
(Title)

\_\_\_\_\_  
(Signature)

\_\_\_\_\_  
(Date)

**ORANGE COUNTY SANITATION DISTRICT**

**FORM C**

**CERTIFICATION  
OF  
SLUG CONTROL PLAN**

The certification shall be signed by the facility/organization principal Executive Officer, General Manager, or equivalent responsible corporate officer. All the statements in this certification are subject to the Orange County Sanitation District's verification and inspection.

FACILITY NAME: \_\_\_\_\_

ADDRESS: \_\_\_\_\_  
\_\_\_\_\_

TELEPHONE NUMBER: \_\_\_\_\_

PERMIT NUMBER: \_\_\_\_\_

I certify, under penalty of perjury under the laws of the State of California, that the above-noted facility has a current Slug Control Plan and that the information provided in the document is to the best of my knowledge true and that the Slug Discharge Plan is being implemented as described. The Slug Control Plan is on file and shall be made available to the Orange County Sanitation District and its representative for review and inspection whenever requested by the Orange County Sanitation District and/or its representative.

I further certify, under penalty of perjury under the laws of the State of California, that the spill containment and control equipment installed at this facility and slug control procedure being implemented are sufficient to provide adequate protection to minimize the chance that a slug discharge will occur and cause damage to the Orange County Sanitation District's collection system, upset treatment plant operations, or harm to human health and the environment.

\_\_\_\_\_  
(Name)

\_\_\_\_\_  
(Title)

\_\_\_\_\_  
(Signature)

\_\_\_\_\_  
(Date)

# ORANGE COUNTY SANITATION DISTRICT

## SLUG CONTROL PLAN

### MINIMUM REQUIREMENTS

The following minimum requirements for a Slug Control Plan are in accordance with Section 40 CFR 403.8(f)(2)(v).

YOU MAY SATISFY THE MINIMUM REQUIREMENTS OF THE PLAN BY COMPLETING AND SUBMITTING THE ATTACHED SLUG CONTROL PLAN.

The Slug Control Plan is required to contain, as a minimum, the following elements:

- A. Identification and description of:
  1. Potential sources of wastestreams from accidental spills and line breakages or system integrity failure during fires, earthquakes, facility closure, clean-up, etc.
  2. Description and characterization of all chemicals and toxic materials that are being stored or handled at the facility.
  
- B. Provisions to prevent an adverse impact on the sewer system from accidental spills, fires, earthquakes, closure of facility or clean-up activities. These provisions, as a minimum, must include the following:
  1. Structures and equipment to contain and handle accidental spills of chemicals and toxic materials
  2. Equipment for emergency response
  3. Routine inspection and maintenance of the following areas:
    - Chemical storage area
    - Handling and transfer of chemicals or toxic materials
    - Loading and unloading of chemicals or toxic materials
    - Structures or equipment containing chemicals or toxic materials.

- C. Worker training for emergency preparedness and response, handling of spills and leaks, proper and safe transfers and handling of chemicals or toxic materials to prevent spills and slug discharges.
- D. Procedures for emergency or non-routine response in case of any accidental spills, fires, earthquakes, closure of facility, or any other incidents. The procedures, as a minimum, must contain the following:
1. Guidance to contain and handle spilled chemicals or toxic materials
  2. Guidance for safety precautions and to prevent further exposure
  3. Guidance for proper clean-up and disposal instructions, with preventive measures that avoid recurrence to the greatest possible extent
  4. Listing of emergency telephone numbers to report spills, fires, closure of a facility, clean-up activities, and any non-routine discharges to the sewer system or potential hazards to public health. As a minimum, a listing of governmental agencies with telephone numbers and their appropriate city should be included.

***YOU MAY SATISFY THE MINIMUM REQUIREMENTS OF THE PLAN  
BY COMPLETING AND SUBMITTING THE ATTACHED  
SLUG CONTROL PLAN***

# SLUG CONTROL PLAN

<i>Facility Name:</i>
<i>Address:</i>
<i>Wastewater Discharge Permit No.</i>

**Complete Attachments Parts A, B, C, & D**

## PART A

### WASTE IDENTIFICATION AND CHARACTERIZATION

This part describes and identifies wastes and wastewater sources and disposal practices for routine and non-routine conditions.

- **Routine conditions** describe normal, day-to-day operations, including batch discharges.
- **Non-routine conditions** describe the emergency, accidental, or non-customary discharges.

***You may fulfill the requirements of this part by providing the information required in the following sections.***



## PART A (Continued)

### 2. FACILITY FLOOR PLAN DIAGRAM

Provide a floor diagram identifying location of equipment, storage facilities, sources of chemicals or toxic materials, floor drains, containment structures such as berms, dikes, trenches, and sumps.

As a minimum requirement, the drawing shall be drawn to scale and shall show the following:

1. Map orientation or North arrow.
2. Name of company and address, drawing name and number, scale size, date drawn/revised, name of draftsman, name of person approving the drawings and approval signatures.
3. Legend for symbols used.
4. Layout of all tanks and equipment. Each process tank/equipment must be properly identified using the same reference used in Part 1A.
5. All floor drains, trenches, and sumps, and where they are connected.
6. Spill prevention structures and/or equipment used to contain and prevent the discharge of spills and leaks or other slug discharges to the sewer.
7. Emergency equipment used to respond to an emergency condition during spills or slug discharge to the sewer.

***Attach Drawing(s)***

## PART B

### SLUG CONTROL PLAN PROVISIONS

This part identifies and describes the provisions implemented at the facility to prevent slug discharges to the sewer from accidental spills and leaks, fires, earthquakes, facility clean-up or closure, or any other event that may cause non-routine slug discharges.

***You may fulfill the requirements of this part by providing the information required in the following sections.***

**PART B (Continued)**

**1. EMERGENCY RESPONSE EQUIPMENT**

Identify, describe, and show the location of available emergency equipment used to respond to an emergency condition during spills or slug discharges to the sewer. Show the location on the drawing in Attachment A.3, as necessary. Refer to the drawing location in the table.

<b>EQUIPMENT/ STRUCTURE</b>	<b>LOCATION (DRAWING REFERENCE)</b>	<b>DRAWING REFERENCE</b>	<b>FUNCTION</b>
<b>Communication Equipment</b>			
<b>Protective Clothing and Respirators</b>			
<b>First Aid Kits</b>			
<b>Decontamination Equipment</b>			
<b>Ventilation Equipment</b>			
<b>Emergency Containers</b>			
<b>Other</b>			

**PART B (Continued)**

**2. ROUTINE INSPECTION AND MAINTENANCE**

Identify and describe the inspection and maintenance schedule and procedure at the site to prevent spill and leaks or accidental discharges that result in slug discharges.

<b>AREA</b>	<b>SCHEDULE OF INSPECTION</b>	<b>DESCRIPTION</b>
<b>Chemical Storage Area</b>		
<b>Handling and Transfer of Materials Area and System</b>		
<b>Loading and Unloading of Chemicals Area</b>		
<b>Emergency Response Equipment</b>		
<b>Other (Describe)</b>		









**ORANGE COUNTY SANITATION DISTRICT**

**FORM D**

**SLUG DISCHARGE NOTIFICATION PROCEDURE**

All facilities must have instructions for the appropriate employees to follow proper notification procedures. A listing of numbers and instructions must be posted for easy access by employees.

1. Fill out Form D, attached.
2. Send a copy to the Orange County Sanitation District and retain the original.
3. POST information for easy access by employees. The information should be readily visible and legible.

Designated employees must receive instructions and be trained in these procedures.

**POST INSTRUCTIONS**  
**AND**  
**INFORM ALL PERSONNEL OF PROCEDURES**

**During an event or incident that causes or may cause slug discharges due to spills, leaks, or other noncustomary batch discharges, including discharges which may violate the District's Ordinance, or the conditions of the SIU's Wastewater Discharge Permit, or prohibitions under 40 CFR 403.5(b), the permittee is required, under the provisions of Section 40 CFR 403.8(f)(2)(v) and section 501.3 of the District's Ordinance, to take the following actions:**

- 1. Immediately telephone the District's Control Center at (714) 962-2411 and provide the information listed below:**
  - Date and time of incident**
  - Duration of incident**
  - Flow rate or volume of spill**
  - Entry point to the sewer**
  - Preventive action taken**
  - Cause of the spill**
  - Constituents of concern**
  
- 2. Provide follow-up written notification within five days from the time of the event or incident to include all the above items.**

**ORANGE COUNTY SANITATION DISTRICT  
FORM D  
SLUG CONTROL PLAN**

Facility Name: \_\_\_\_\_

Address: \_\_\_\_\_

Wastewater Discharge Permit No: \_\_\_\_\_

Issue Date: \_\_\_\_\_

Expiration Date: \_\_\_\_\_

<b>Responsible Company Contact:</b> Title: _____ Work Phone Number: _____ After Hours Phone Number: _____
<b>Emergency Company Contact:</b> Title: _____ Work Phone Number: _____ After Hours Phone Number: _____
<b>Alternate Company Contact:</b> Title: _____ Work Phone Number: _____ After Hours Phone Number: _____

**NOTIFICATION OF RESPONSE AGENCIES**

AGENCY	DEPARTMENT/NAME	24-HOUR EMERGENCY NUMBER
Orange County Sanitation District	Control Center	(714) 962-2411
Orange County Health Care Agency		
Orange County (or City) Fire Department		
Orange County Environmental Management Agency		
Regional Water Quality Control Board		
Southern California Air Quality Management District		
Others:		

*List locations where the above information is posted.*

1.

2.