

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
SAN FRANCISCO BAY REGION

RESOLUTION NO. 70-25

PRESCRIBING REVISED REQUIREMENTS FOR WASTE DISCHARGE DURING AN INTERIM PERIOD BY SAN FRANCISCO INTERNATIONAL AIRPORT SEWAGE TREATMENT PLANT INTO THE NORTHWEST CORNER OF A SEAPLANE HARBOR IN SAN FRANCISCO BAY, SAN MATEO COUNTY AND RESCINDING RESOLUTION NO. 69-56

WHEREAS THIS REGIONAL BOARD HAS CONSIDERED

INFORMATION ABOUT THIS DISCHARGE

1. This Regional Water Quality Control Board prescribed requirements for San Francisco International Airport, called the discharger below, in Resolution No. 69-56, adopted October 23, 1969.
2. The discharger has relocated the outfall serving the present plant, from an adjacent slough to the Northwest corner of the Seaplane Harbor. A new plant with an outfall discharging to the Northeast corner of the Seaplane Harbor is scheduled for completion by February 1, 1971. When the new plant and outfall are completed and in operation, the existing plant and its relocated interim outfall will be abandoned.
3. Information in the Regional Board's files describe this existing waste discharge as sewage only, including wastes from commercial food preparation kitchens of up to 0.90 mgd. The existing treatment plant has a design capacity of .75 mgd. The outfall, a 24-inch pipe discharges the waste into the Northwest corner of the Seaplane Harbor near the shoreline at a point about 1.7 feet below mean lower low water.

STAFF INVESTIGATION

1. These wastes can affect the following present beneficial water uses in the Seaplane Harbor and San Francisco Bay:

Fish, shellfish, and wildlife propagation and sustenance, and waterfowl and migratory birds habitat and resting;
Navigation channels;
Esthetic enjoyment.

In Seaplane Harbor swimming in Coast Guard training, Coast Guard docking facilities and fishing.

In San Francisco Bay swimming, water-skiing, wading, pleasure boating, marinas, fishing, shellfishing, and hunting.

2. Land within 1000 feet of the outfall is used for transportation.
3. Land within 1000 feet of the sewage treatment plant is used for business, industry and transportation.

RESOLVED BY THIS REGIONAL BOARD

BOARD INTENT

1. Protect public health as it may be affected by this waste discharge.
2. Prevent nuisance, as defined in Section 13050(m) of the California Water Code.
3. Protect the beneficial water uses listed under "Staff Investigation" above, except shellfishing.

In accordance with Section XVII of its Resolution No. 803, this Board has received a report from the Department of Fish and Game dated August 26, 1968, which describes beds suitable for shellfishing that are located along the south shore of Point San Bruno and along the shore of the Bay between Broadway in Burlingame and Coyote Point.

This Board will consider the matter of protecting these beds for the taking of shellfish for human consumption after it has reviewed a report to be submitted by the State Department of Public Health in accordance with Resolution No. 803.

4. To amend Resolution No. 69-56 to make the code references and/or format consistent with the Porter-Cologne Water Quality Control Act which became operative on January 1, 1970 without making any substantive changes in the specific requirements contained therein except for the requirement pertaining to oil or petroleum products and adding as a new requirement the "Prohibition".

WASTE DISCHARGE REQUIREMENTS - RECEIVING WATERS

1. The treatment or disposal of waste shall not create a nuisance as defined in Section 13050(m) of the California Water Code.
2. The discharge shall not:
 - a. Unreasonably affect any of the protected beneficial water uses resulting from:

Floating, suspended, or deposited macroscopic particulate matter or foam in waters of the State at any place;

Bottom deposits at any place;

Aquatic growths at any place;

Alteration of temperature, turbidity, or apparent color beyond present natural background levels in waters of the State at any place more than 50 feet from the outfall.

- b. Cause visible, floating, suspended or deposited oil or other products of petroleum origin in waters of the State at any place.
- c. Cause waters of the State to exceed the following limits of quality at any point within one foot of the water surface:

pH	7.0	minimum	
	8.5	maximum	
Dissolved oxygen	5.0 mg/l	minimum	Any sample
Dissolved sulfide	0.1 mg/l	maximum	
Nutrients	to be prescribed at the earliest practicable date		
Chromium, hexavalent	0.5 mg/l	maximum	
Chromium, total	1.0 mg/l	maximum	
Lead	0.05 mg/l	maximum	
Other substances	any one or more substances in concentrations that impair any of the protected beneficial water uses or make aquatic life or wildlife unfit or unpalatable for consumption.		

This Board will consider prescribing specific requirements for the concentration of Copper and Zinc in the receiving waters after enough new data has been obtained and evaluated; in the meanwhile, the Board considers the following to be receiving water quality goals for the points described above:

Copper	0.05 mg/l	maximum
Zinc	0.1 mg/l	maximum

WASTE DISCHARGE REQUIREMENTS - WASTE STREAM

The waste stream discharged to waters of the State shall meet these quality limits at all times:

1. In any grab sample:

Settleable matter

The arithmetic average of any six or more samples collected on any day 0.5 ml/l/hr. maximum

80% of all individual samples collected during maximum daily flow over any 30-day period 0.4 ml/l/hr. maximum

Any sample 1.0 ml/l/hr. maximum

2. In any representative, 24-hour composite sample:

Toxicity: survival of test fishes in 96-hour bioassays of the waste as discharged

Any sample 75% minimum

Average of any three or more consecutive samples collected during any 21 or more days 90% minimum

Grease: 15 mg/l maximum

3. Bacterial concentration shall not exceed the limits prescribed in Section 7958, Title 17, California Administrative Code at any time, and it shall be met in the waste at some point in the treatment process; the Board will accept proof of effective effluent disinfection in terms of factors other than bacterial concentrations if the discharger documents a sound statistical correlation between such factors and bacterial analysis.

4. 5-day, 20° C BOD removal from the waste as indicated by analysis of 24-hour composite samples of effluent and influent shall be sufficient to maintain the dissolved oxygen concentration prescribed above. When the dissolved oxygen is less than the concentration prescribed above, the BOD removal during the preceding 21 days shall be at least:

Average 90%

Not more than two consecutive daily determinations shall indicate BOD removals less than 80%.

PROHIBITION

Pursuant to Section 13243 California Water Code, the discharge of waste in excess of the following quality or quantities is prohibited:

1. Bacterial concentrations as prescribed herein.
2. Suspended matter - 750 lbs/day, maximum moving average for previous four calendar weeks.
3. 5-day, 20° C BOD - 1500 lbs/day, maximum moving average for previous four calendar weeks.
4. Grease - 300 lbs/day, maximum moving average for previous four calendar weeks.

REPORTING REQUIREMENTS

This Resolution includes items numbered 1, 3, 6 and 7 of the attached "Reporting Requirements", dated January 1, 1970.

NOTIFICATIONS

1. This Board's Resolution No. 69-56 is hereby rescinded.
2. This Resolution includes items numbered 2, 3, 4, 5, 6 and 7 of the attached "Notifications", dated January 6, 1970.
3. These requirements are applicable to the waste discharged through the outfall to the Northwest corner of the Seaplane Harbor for an interim period. Upon completion of the new plant and outfall, this temporary outfall will be sealed and abandoned. The requirements prescribed above will be automatically rescinded whenever all the above described wastes are discharged through the new treatment plant and its outfall.

WILLIAM C. WEBER
Chairman

March 26, 1970

I, Fred H. Dierker, hereby certify that the foregoing is a true and correct copy of Resolution No. 70-25 adopted by the California Regional Water Quality Control Board - San Francisco Bay Region at its regular meeting on March 26, 1970.

FRED H. DIERKER,
Executive Officer
CALIFORNIA REGIONAL WATER QUALITY CONTROL
BOARD, SAN FRANCISCO BAY REGION

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
SAN FRANCISCO BAY REGION
January 1, 1970

REPORTING REQUIREMENTS

1. This Board requires the discharger to file technical reports on self-monitoring work performed according to detailed specifications developed pursuant to the Regional Board's Resolution No. 398. (Reference: Sections 13267(b) and 13268, California Water Code.)
2. This Board requires the discharger to file a written report within 90 days after the average dry-weather waste flow for any month equals or exceeds 80% of the design capacity of his waste treatment and/or disposal facilities. The discharger's senior administrative officer shall sign a letter which transmits that report and certifies that the policy-making body is adequately informed about it. The report shall include:

Average daily flow for the month, the date on which the instantaneous peak flow occurred, the rate of that peak flow, and the total flow for that day.

The discharger's best estimate of when the average daily dry-weather flow rate will equal or exceed the design capacity of his facilities.

The discharger's intended schedule for studies, design, and other steps needed to provide additional capacity for his waste treatment and/or disposal facilities before the waste flow rate equals the capacity of present units. (Reference: Sections 13260, 13267(b) and 13268, California Water Code.)

3. This Board requires the discharger to file a time schedule for engineering studies on facilities needed to comply with the Board's receiving water objective of 5.0 mg/l of dissolved oxygen and/or to file a time schedule for deciding upon the feasibility of participating in regional water quality control systems if he does not meet that dissolved oxygen objective after providing waste treatment facilities which comply with the effluent BOD requirement prescribed elsewhere in this Resolution. (Reference: Sections 13267(b) and 13268, California Water Code.)
4. This Board requires the discharger to file technical reports on studies into correcting violations of the Board's water quality objectives caused by discharging combined storm water and sewage. Specifications for these studies shall be developed pursuant to the Board's Resolution No. 398. (Reference: Sections 13267(b) and 13268, California Water Code.)

5. This Board requires the discharger to file written reports within 15 days after each calendar quarter to include:

Name of and number of lots in each subdivision for which an application has been received for connection to the sewerage system.
Anticipated date of connection of each subdivision to the sewerage system.

Finding and supporting data by governing body on effect of addition of each subdivision on violation of waste discharge requirements.

(Reference: Section 11551.6 Business and Professions Code and Sections 13267(b) and 13268, California Water Code.)

6. This Board requires the discharger to file a report on waste discharge at least 120 days before making any material change or proposed change in the character, location or volume of the discharge. (Reference: Sections 13260(b) and 13264, California Water Code.)
7. This Board requires the discharger to file a written technical report at least 15 days prior to advertising for bids on any construction project which would cause or aggravate the discharge of waste in violation of these requirements; said report to describe the nature, costs, and scheduling of all actions necessary to preclude such discharge. In no case should any discharge of sewage bearing wastes be permitted without at least primary treatment and chlorination. (Reference: Sections 13267(b) and 13268, California Water Code.)

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
SAN FRANCISCO BAY REGION
January 6, 1970

NOTIFICATIONS

1. This Board requests the discharger to take note of the comments and recommendations contained in all the correspondence the Board has received and considered concerning this matter, and the Executive Officer is directed to transmit copies of that correspondence to the discharger.
2. This Board considers "Waters of the State" as defined in Section 13050(e) of the California Water Code to include waste waters over which the discharger has lost control.
3. The requirements prescribed herein do not authorize the commission of any act causing injury to the property of another, nor protect the discharger from his liabilities under Federal, State, or local laws, nor guarantee the discharger a capacity right in the receiving waters.
4. This Board will prescribe more restrictive requirements for this waste discharge if necessary:
 - To achieve or maintain dissolved oxygen concentration of at least 5.0 mg/l in tidal waters of the San Francisco Bay System pursuant to Resolution No. 67-30,
 - To protect shellfishing areas which the Board designates pursuant to Resolution No. 803,
 - To protect the beneficial water uses, and to achieve other objectives adopted in the resolutions cited above.
5. This Board will review these requirements periodically, as required by law, and will notify the responsible persons before doing so. (Reference: Section 13263(e), California Water Code.)
6. The water quality parameters used in this resolution are as defined in the latest edition of "Standard Methods for the Examination of Water and Wastewater" by the American Public Health Association.
7. The discharger is advised that this Board will use the general concepts of Phase I of the plan recommended by the Final San Francisco Bay-Delta Program Report as guidelines in reviewing any application for construction grants for sewerage facilities proposed to comply with these requirements, and if the discharger intends to make such application he must demonstrate the compatibility of the proposed facilities with the general concepts of the Bay-Delta Program.