

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
SAN FRANCISCO BAY REGION

ORDER NO. 72-41

WASTE DISCHARGE REQUIREMENTS
FOR
SAN RAFAEL SANITATION DISTRICT
MAIN PLANT
MARIN COUNTY

The California Regional Water Quality Control Board, San Francisco Bay Region, finds that:

- A. This Regional Board prescribed requirements for waste discharged by the San Rafael Sanitation District, called the discharger below, at its Main Plant in Resolution No. 70-47, adopted May 28, 1970.
- B. The discharge includes:
1. Waste "A" is 2.5 million gallons per day (mgd) of sewage and industrial waste from approximately 25,000 people. The design capacity is 5.0 mgd discharged at the shoreline of San Rafael Bay. The waste flows more than 2000 feet across mud flats during low tides before reaching the receiving water.
 2. Waste "B" is untreated sewage bypassed from the sewerage system during wet weather.
- C. The Board adopted an Interim Water Quality Control Plan for the San Francisco Bay Basin on June 14, 1971.
- D. The beneficial uses of San Rafael Bay are:
- Water-skiing, wading, pleasure boating, marinas, fishing, shellfishing and hunting
- Fish, shellfish, and wildlife propagation and sustenance, and waterfowl and migratory birds habitat and resting
- Navigation channels
- Esthetic enjoyment.
- It is the intent of this Board to protect shellfishing as a beneficial use; however, this use will not be protected until this discharge is removed from its present location.
- E. The Board has notified the discharger and interested agencies and persons of its intent to prescribe waste discharge requirements for the proposed discharge.

F. The Board, in a public meeting on July 25, 1972, heard and considered all comments pertaining to the discharge.

IT IS HEREBY ORDERED, the discharger shall comply with the following:

A. Waste Discharge Specifications

1. The treatment or disposal of waste shall not create a nuisance as defined in Section 13050(m) of the California Water Code.

2. Waste "A" shall not cause:

- a. Floating, suspended, or deposited macroscopic particulate matter or foam in waters of the State at any place;
- b. Bottom deposits or aquatic growths at any place;
- c. Alteration of temperature, turbidity, or apparent color beyond present natural background levels in waters of the State at any place;
- d. Visible, floating, suspended or deposited oil or other products of petroleum origin in waters of the State at any place;
- e. Waters of the State to exceed the following limits of quality at any point:

pH	7.0 minimum 8.5 maximum
*Dissolved oxygen	5.0 mg/l minimum
Dissolved sulfide	0.1 mg/l maximum
Nutrients	None in concentrations sufficient to cause deleterious biotic growths. Whenever natural factors cause such concentrations, then controllable factors shall not cause further increase.
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.

*3. Waste "A" as discharged or at some point in the treatment process shall meet the following quality limits at all times:

Coliform Organisms	240 MPN/100 ml, median of five consecutive samples, maximum 10,000 MPN/100 ml, any single sample, maximum
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4. Waste "A" as discharged to waters of the State shall meet these quality limits at all times:

*a. 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

b. In any representative set of samples:

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

Any determination 70% minimum

Average of any three or more consecutive determinations made during any 21 or more days 90% minimum

5. The mean daily discharge of waste for any seven consecutive days shall not exceed 5.0 million gallons per day.

*This specification from Resolution No. 396

B. Discharge Prohibitions

1. Bypassing of untreated sewage, Waste "B", is prohibited.
2. The discharge of Waste "A" is prohibited within 200 feet offshore from the extreme low water line.

C. Provisions

1. This Order includes items numbered 1, 2, 6 and 7 of the attached "Reporting Requirements" dated August 28, 1970.
2. This Order includes items numbered 1, 2, 3, 4, 5, 6 and 7 of the attached "Notifications" dated January 6, 1970.
3. This Order rescinds Resolution No. 70-47.

4. The discharger shall comply with the following time schedule and reporting program to assure compliance with:

<u>TASK</u>	<u>COMPLETION DATE</u>	<u>STATUS REPORT DUE</u>
a. Compliance with Prohibition B.1.	April 15, 1973	Every six months beginning December 15, 1972
b. Maximize compliance with flow limit by completing program to eliminate maximum feasible amount of infiltration from sewer system	December 1, 1973	Every six months beginning December 15, 1972
c. Complete Conceptual Plan and submit time schedule for compliance with Discharge Prohibition B.2.	August 15, 1972	August 30, 1972
d. Compliance with all Discharge Specifications	Forthwith	As required by self-monitoring program

I, Fred H. Dierker, Executive Officer, do hereby certify the foregoing is a full, true and correct copy of an Order adopted by the California Regional Water Quality Control Board, San Francisco Bay Region, on July 25, 1972.

Executive Officer

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
SAN FRANCISCO BAY REGION

August 28, 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. 70-43. (Reference: Section 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. 70-43. (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 Section 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.