

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD  
SAN FRANCISCO BAY REGION

ORDER NO. 71-47

REVISED WASTE DISCHARGE REQUIREMENTS  
FOR  
CROCKETT-VALONA SANITARY DISTRICT, CONTRA COSTA COUNTY

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

1. This Regional Board prescribed requirements for the Crockett-Valona Sanitary District, called the discharger below, in Resolution No. 285 on September 18, 1958, and in Resolution No. 69-40 on August 28, 1969.
2. Information in the Regional Board's files describes these existing waste discharges as follows:
  - a. Waste "A" is about 0.25 million gallons per day (mgd) of sewage effluent from a primary treatment plant with a design flow of 0.55 mgd. Waste "A" is being discharged via an existing 24-inch pipe, called Outfall "A-1", above mean lower low water at the shore adjacent to the treatment plant.
  - b. Waste "B" is digested sludge from the existing treatment plant, and is discharged into an existing drying bed called Land Disposal Site "L-1" below.
3. The discharger submitted a report of waste discharge dated March 15, 1971 stating that it is proposed to extend Outfall "A" about 60 feet offshore to a point about 30 feet below the water surface. The proposed extension is called Outfall "A-2" below. The discharger also proposes to provide new disinfection facilities, but no other changes to the existing treatment plant.
4. The Board adopted a Bay Water Quality Control Plan on March 26, 1970, and a Land Disposal Policy on September 25, 1969.
5. The beneficial uses of the waters of Carquinez Strait and contiguous water bodies are:
  - a. Industrial cooling water supply year-round
  - b. Water-skiing, pleasure boating, marinas, fishing and hunting
  - c. Fish and wildlife propagation and sustenance, and waterfowl and migratory birds habitat and resting
  - d. Navigation channels and port facilities
  - e. Esthetic enjoyment.

6. Land within 1000 feet of these discharges is used for industry and transportation.
7. The Board has notified the discharger and interested agencies and persons of its intent to prescribe waste discharge requirements for these discharges.
8. The Board in a public meeting heard and considered all comments pertaining to the discharges.

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

A. Waste Discharge Requirements

1. The treatment or disposal of these wastes shall not create a nuisance as defined in Section 13050(m) of the California Water Code.
2. The discharge of 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
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Dissolved oxygen	5.0 mg/l minimum
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When natural factors cause lesser concentrations, then this discharge shall not cause further reduction in the concentration of dissolved oxygen

Dissolved sulfide	0.1 mg/l maximum
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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.
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- f. Waters of the State to exceed the following limits of quality at any place within one foot of the water surface:

Coliform Organisms

240 MPN/100 ml, median of five consecutive samples, maximum

10,000 MPN/100 ml, maximum any single sample, when verified by a repeat sample taken within 48 hours

Whenever either of these bacterial values is exceeded in the receiving water for any reason they shall both be met instead in the waste at some point in the treatment process.

Analyses to be determined by the multiple-tube fermentation method using at least two portions per decimal dilution.

3. Waste "A" as discharged from Outfall "A-1" shall meet these quality limits at all times:

a. In any grab sample or instantaneous observation:

pH	7.0 minimum
	8.5 maximum

Settleable Matter

The arithmetic average of any 6 or more samples collected on any day	0.5 ml/l/hr. maximum
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80% of all individual samples collected during maximum daily flow over any 30-day period	0.4 ml/l/hr. maximum
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Any sample	1.0 ml/l/hr. maximum
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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
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Average of any 3 or more consecutive determinations made during any 21 or more days	90% minimum
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c. In any representative, 24-hour composite sample:

Nutrients to be prescribed at the earliest practicable date

4. Waste "A" as discharged to waters of the State via Outfall "A-2" (proposed) shall meet these quality limits at all times:

a. In any grab sample or instantaneous observation:

pH 6.5 minimum  
8.5 maximum

Settleable Matter

The arithmetic average of any 6 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, 24-hour composite sample:

Toxicity: the concentration of the waste itself in the receiving waters at any point within one foot of their surface 10% of the 96-hour  $TL_m$  concentration of the waste as discharged, maximum

Toxicity of the waste stream in terms of minimum  $TL_m$  or per cent survival will be prescribed in addition to the above as soon as practicable.

5. The mean daily flow of Waste "A" for any seven consecutive days shall not exceed 0.55 mgd.
6. The discharge of Waste "B" shall not cause waste material to be in any position where it is, or can be carried from Land Disposal Site "L-1" and deposited in waters of the State.
7. Land Disposal Site "L-1" shall have facilities adequate to divert surface runoff from adjacent areas, to protect boundaries of the site from erosion, and to prevent any conditions that would cause drainage from the materials in the disposal site. Adequate protection is defined as protection from at least a 100-year storm, and from the highest tidal stage that may occur.

8. The disposal of material acceptable only at Class I waste disposal sites in Land Disposal Site "L-1" is prohibited.
9. The disposal of Waste "B" and the operation of Land Disposal Site "L-1" shall be in conformance with all provisions of this Board's Resolution No. 69-42 pertaining to Class II disposal sites.

B. Provisions

1. This Order includes items numbered 1, 2, 4, 5, 6 and 7 of the attached "Reporting Requirements", dated August 28, 1970.
2. This Order includes items numbered 1, 2, 3, 4, 5 and 6 of the attached "Notifications", dated January 6, 1970.
3. Crockett-Valona Sanitary District shall comply with the following time schedule and reporting program to assure compliance with the waste discharge requirements of this order:

<u>TASK</u>	<u>COMPLETION DATE</u>	<u>STATUS REPORT DUE</u>
Complete Conceptual Design	Sept. 30, 1971	Oct. 15, 1971
Authorization of Funding	Sept. 30, 1971	Oct. 15, 1971
Complete Final Design	Jan. 31, 1972	Jan. 17, 1972
Commence Construction	April 28, 1972	May 15, 1972
Complete 50% of Construction	Aug. 31, 1972	Sept. 15, 1972
Compliance with Requirements	Nov. 30, 1972	Dec. 15, 1972

4. This Board's Resolution No. 285, and that part of Resolution No. 69-40 pertaining to this discharger are rescinded.

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 June 24, 1971.

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Executive Officer