

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
SAN FRANCISCO BAY REGION

ORDER NO. 71-30

WASTE DISCHARGE REQUIREMENTS
FOR
VIRGINIA CHEMICALS INC.,
CROCKETT, CONTRA COSTA COUNTY

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

1. The Virginia Chemicals Inc., called the discharger below, submitted an affidavit concerning waste discharge dated February 4, 1971.
2. The discharger proposes to discharge:
 - a. Waste "1", which is about 1.4 mgd of cooling water and other wastes from manufacturing sulfur dioxide. This waste is to be discharged into Carquinez Strait at a depth of about five feet under Selby Wharf via a 24-inch pipe called Outfall "1" below.
 - b. Waste "2", which is septic tank effluent from sanitary facilities serving a total of ten employees, and is discharged into a subsurface leaching field, called Land Disposal Site "L-1" below, near the employees' change room.
3. The discharger states that process material storage areas are enclosed by dikes to prevent loss of spilled matter into public waters, except for material that vaporizes quickly.
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 the proposed 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 waste shall not create a nuisance as defined in Section 13050(m) of the California Water Code.
2. The discharge of Waste "1" 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 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 than 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. Any zone exceeding 25 per cent of the cross-sectional area of Carquinez Strait in which the water temperature is more than one degree Fahrenheit above the ambient receiving water temperature, either as a result of this discharge alone or in combination with the effects of others.
 - g. A surface temperature rise exceeding the ambient temperature of the receiving waters by more than four degrees Fahrenheit at any time or place.
3. Waste "1" as discharged to waters of the State 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 six 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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Settleable matter in excess of that in the intake water drawn from Carquinez Strait

80% of all individual samples collected during maximum daily flow over any 30-day period	0.1 ml/l/hr. maximum
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Any sample	0.5 ml/l/hr. maximum
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Temperature in degrees Fahrenheit

Above the ambient receiving water temperature	20° F, maximum
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As measured	86° F, 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 three or more
consecutive determinations
made during any 21 or more
days 90%, minimum

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

Grease 15 mg/l maximum

4. The mean daily flow of Waste "1" for any seven consecutive days shall not exceed 1.4 mgd.
5. Waste "2" shall be confined to its subsurface disposal site at all times.
6. Accidental spills shall be confined within their containment basins.

B. Provisions

1. This Order includes items numbered 1, 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.

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 May 27, 1971.

Executive Officer