

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
SAN FRANCISCO BAY REGION

ORDER NO. 71-83

WASTE DISCHARGE REQUIREMENTS
FOR
CARGILL INCORPORATED
1301 Army Street, San Francisco

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

- A. Cargill Incorporated, called the discharger below, submitted a report of waste discharge dated September 23, 1971.
- B. The discharge includes:
 1. Waste A is presently 0.19 million gallons per day (mgd) of cooling water discharged from two separate discharge points directly into Islais Creek Channel. The waste is cooling water only with a temperature range of 56°F. to 100°F. Design capacity of the cooling water facilities is 0.30 mgd.
 2. Waste B is yard drainage from the facility and is discharged from four separate discharge points into Islais Creek Channel.
- 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 Islais Creek and San Francisco Bay are:
 1. Industrial water supply.
 2. Swimming, wading, pleasure boating, marinas, and fishing in San Francisco Bay and fishing in Islais Creek.
 3. Fish and wildlife propagation and sustenance, and waterfowl and migratory birds habitat and resting.
 4. Navigation channels and port facilities.
 5. Esthetic enjoyment.
- 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 December 21, 1971, heard and considered all comments pertaining to the discharge.

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

A. Waste Discharge Requirements

1. The treatment or disposal of wastes shall not create a nuisance as defined in Section 13050(m) of the California Water Code.
2. The discharges 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 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. Any change of temperature in the waters of the State which would be detrimental to the beneficial uses of that water.

Based on the results of study required under Provision 1 below, the Regional Board may revise the temperature requirements relating to Waste A discharge.

- f. Waters of the State to exceed the following limits of quality at any place:

pH	0.1 pH unit, maximum change from natural ambient
Dissolved oxygen	Minimum - 5.0 mg/l Annual median - 80% saturation 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
Nutrients	None in concentrations sufficient to cause deleterious biotic growths.
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 to waters of the State shall meet these quality limits at all times:

a. In any grab sample:

pH	7.0 minimum
	8.5 maximum

b. In any representative set of samples:

Toxicity: survival of test fishes in 96-hour bioassays of the waste cooled to the ambient temperature of the receiving water.

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
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4. The mean daily discharge of Waste "A" for any seven consecutive days shall not exceed 0.30 mgd.

B. Provisions

1. Pursuant to Section 13267 of the California Water Code the discharger is required to submit a study plan by February 1, 1972 satisfactory to the Executive Officer describing the scope of a study and technical report to be completed by July 1973, documenting the effects of Waste A discharge on beneficial water uses of Islais Creek and San Francisco Bay.
2. This Order includes items numbered 1, 2, 6 and 7 of the attached "Reporting Requirements" dated August 28, 1970.
3. 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 December 21, 1971.

Executive Officer