

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD  
SAN FRANCISCO BAY REGION

RESOLUTION NO. 70-101

PRESCRIBING REVISED REQUIREMENTS FOR WASTE DISCHARGE  
BY THE CITIES OF SOUTH SAN FRANCISCO AND SAN BRUNO INTO  
SAN FRANCISCO BAY, SAN MATEO COUNTY AND RESCINDING  
RESOLUTIONS 382, 565, AND THOSE PORTIONS OF RESOLUTION 69-40  
WHICH APPLY DIRECTLY ONLY TO THE CITIES OF SOUTH SAN  
FRANCISCO AND SAN BRUNO.

WHEREAS THIS REGIONAL BOARD HAS CONSIDERED

INFORMATION ABOUT THIS DISCHARGE

1. This Regional Water Quality Control Board prescribed requirements for waste discharge by the Cities of South San Francisco and San Bruno, called the discharger below, into San Francisco Bay in Resolutions 382, 565, and 69-40.
2. This Regional Board has stated its intent to revise requirements for existing waste discharges to conform with the Bay Water Quality Control Plan.
3. Information in the Regional Board's files describes the waste as about 8 mgd of sewage mixed with industrial waste from a present population of about 82,000 persons. Existing facilities are designed to serve a tributary population of 108,000 persons at an average daily dry weather flow of 13 mgd.

CORRESPONDENCE

This Regional Board has considered recommendations about this matter from:

1. Memorandum from State Department of Public Health dated December 15, 1970.
2. Memorandum from State Department of Water Resources dated December 9, 1970.
3. Memorandum from State Department of Fish and Game dated December 11, 1970.

STAFF INVESTIGATION

1. These wastes may affect the following beneficial water uses in San Francisco Bay and contiguous water bodies:

Industrial cooling and process water supply year-round

Swimming, water-skiing, wading, pleasure boating, marinas, fishing, hunting and shellfishing.

Fish, shellfish, and wildlife propagation and sustenance, and waterfowl and migratory birds habitat and resting

Navigation channels and port facilities

Esthetic enjoyment.

2. Land within 2000 feet of the waste discharge outfall is used for commerce and industry.

RESOLVED BY THIS REGIONAL BOARD

BOARD INTENT

1. Protect public health as it may be affected by these waste discharges.
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 between Candlestick Point 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. Revise requirements for existing waste dischargers to conform with the Bay Water Quality Control Plan.
5. Encourage the discharger to investigate construction of a joint deep-water outfall, with neighboring dischargers.

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.

- 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:

Dissolved Oxygen	5.0 mg/l, minimum
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	to be prescribed at the earliest practicable date
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.

WASTE DISCHARGE REQUIREMENTS - WASTE STREAM

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

- 1. In any grab sample:

pH	7.0 minimum 8.5 maximum
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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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Coliform Organisms	240 MPN/100 ml, median of five consecutive samples, maximum
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	10,000 MPN/100 ml, any single sample when verified by a repeat sample taken within 48 hours, maximum
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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 the disinfection data and bacterial analysis.

2. 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

TIME SCHEDULE FOR COMPLIANCE WITH REQUIREMENTS

Pursuant to Section 13263(c) of the California Water Code, this Regional Board adopts the following time schedule for compliance with the above requirements:

Complete a master plan for recommended improvements to permit compliance with all requirements including immediate corrective measures to maintain pollutional loadings at no greater than current loads by February 1, 1971

Submit to Regional Board a time schedule for major steps leading to the compliance with all requirements by March 1, 1971

REPORTING REQUIREMENTS

1. This Regional Board requires the discharger, Merck and Co., Inc., Guadalupe Valley Municipal Improvement District, San Francisco International Airport, the City of Burlingame, and the City of Millbrae, to develop a coordinated subregional water quality control program for the consolidation, treatment and disposal of wastes consistent with the general concepts of Phase I of the plan recommended by the Final Bay-Delta Program Report and submit a progress report on the status of needed studies by January 1, 1971.
2. The discharger is required to file written progress reports with this Regional Board pursuant to Section 13267 of the California Water Code within 15 days after each of the dates specified above.
3. This Resolution includes items numbered 1, 2, 4, 5, 6 and 7 of the attached "Reporting Requirements", dated August 28, 1970.

NOTIFICATIONS

1. This Board's Resolutions Nos. 382 and 565, and that part of Resolution No. 69-40 pertaining to this discharge are hereby rescinded.
2. The above compliance time schedule is subject to revision in the discretion of this Regional Board.
3. If the discharger fails to comply with the above time schedule and/or to implement available immediate corrective measures, the Executive Officer is instructed to bring a recommendation on the initiation of formal enforcement proceedings, which may include the prohibition of additional connections to the sewerage system, to the Regional Board for its consideration.
4. This Regional Board will require, as a condition for its approval of any construction grant application, that the Cities participate in a subregional program for consolidation, treatment and disposal of its waste water which is consistent with the general concepts of Phase I of the Final Bay-Delta Program report and which meets the approval of the Regional Board.
5. This Regional Board considers the Cities' present point of disposal to be totally unsatisfactory for long-range waste disposal.
6. This Resolution includes items numbered 1 through 7 of the attached "Notifications", dated January 6, 1970.

WILLIAM C. WEBER  
Chairman

December 22, 1970

I, Fred H. Dierker, hereby certify that the foregoing is a true and correct copy of Resolution No. 70-101 adopted by the California Regional Water Quality Control Board, San Francisco Bay Region, at its regular meeting on December 22, 1970.

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