

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
SAN FRANCISCO BAY REGION

ORDER NO. 78-70

NPDES PERMIT NO. CA0038563

WASTE DISCHARGE REQUIREMENTS FOR:

CITY OF MOUNTAIN VIEW
SMALL BOAT LAKE
MOUNTAIN VIEW, SANTA CLARA COUNTY

The California Regional Water Quality Control Board (hereinafter called the Board) finds that:

1. The City of Mountain View, hereinafter called the discharger, submitted a report of waste discharge in February 1978.
2. The discharger proposes to create a salt water Small Boat Lake located within the City's Shoreline Regional Park (a 540 acre recreational facility adjacent to San Francisco Bay). Lake water will be supplied from San Francisco Bay via Charleston Slough and will be discharged back to San Francisco Bay via Mountain View Slough, as shown on the attached map, which is incorporated herein and made a part of this Order.
3. When completed, the Shoreline Regional Park will include a golf course, several landscape ponds for "non-water contact" recreational uses, a 50-acre Small Boat Lake, picnic facilities, equestrian center, playing fields, open meadows and other recreational facilities.
4. The discharger has submitted a Water Quality Control Plan that will maintain satisfactory water quality in the Small Boat Lake during all periods of the year. An improved inlet structure will be constructed to permit increased flow of bay water to enter Charleston Slough. To maintain adequate circulation within the Small Boat Lake, the discharger proposes to construct an intake structure and pump station, containing a pump with a capacity of 25 cubic feet per second, at the southerly end of Charleston Slough. Slough water will be pumped through a pipeline system discharging at 6 different points within the Small Boat Lake. This arrangement is intended to improve circulation throughout the lake by eliminating "dead spots" and promoting good vertical mixing. The water in the Small Boat Lake will be discharged into Mountain View Slough via an overflow channel. A pipe will also be installed to enable the lake to be emptied if the need arises.

5. A Final Environmental Impact Report, dated March 1977, has been prepared in accordance with the California Environmental Quality Act (Public Resources Code Section 2100 et. seq.). The Small Boat Lake project, as approved by the City of Mountain View, will have as its only significant effect on the environment, that construction activities may temporarily degrade water quality and may affect daily activities of wildlife in the immediate area.
6. The Water Quality Limitations, and Provisions of this Order mitigate or prevent adverse environmental impacts due to continuing operation of this lake.
7. The Board adopted the Water Quality Control Plan for the San Francisco Bay Basin on April 15, 1975, which contains water quality objectives for South San Francisco Bay and contiguous waters. The beneficial uses of South San Francisco Bay and contiguous waters as set forth in the Basin Plan are:
 - a. Industrial service supply
 - b. Navigation
 - c. Water contact recreation and non-contact water recreation
 - d. Commercial and sport fishing
 - e. Preservation of areas of special biological significance
 - f. Wildlife habitat
 - g. Preservation of rare and endangered species
 - h. Marine habitat
 - i. Migration
8. The Board has notified the discharger and interested agencies and persons of its intent to prescribe waste discharge requirements for the discharge and has provided them with an opportunity for a public hearing and an opportunity to submit their written views and recommendations.
9. The Board, in a public meeting, heard and considered all comments pertaining to the discharge.

IT IS HEREBY ORDERED, to achieve the water quality objectives and prohibitions in the Water Quality Control Plan, that the discharger shall comply with the following:

A. Water Quality Limitations

1. The application of copper or other conservative toxicants to control growth of algae or aquatic plants is prohibited.
2. Adequate circulation and mixing, or other methods of water quality management, shall be provided so as to maintain the following levels of water quality at all points within the Small Boat Lake:
 - a. Dissolved Oxygen 5.0 mg/l minimum.

- b. pH Variation from ambient pH within the adjacent waters of the Charleston and Mountain View Sloughs by no more than 0.5 pH units.
- c. Chlorophyll "a" 50 µg/l maximum. When concentrations of chlorophyll "a" in the adjacent Charleston and Mountain View Sloughs exceed this the concentrations within the Small Boat Lake shall not be more than 20 percent above slough concentration.

3. The discharger shall provide sufficient circulation through the lake to prevent the following conditions at any point in the lake:

- a. Visible, floating, suspended or deposited oil or other products of petroleum origin:
- b. Floating, suspended or deposited macroscopic particulate matter or foam;
- c. Aquatic growths in quantities sufficient to create a nuisance condition as defined in the California Water Code.
- d. Significant increases in apparent color in the lake beyond natural background levels in Charleston and Mountain Sloughs;
- e. Increased turbidity in the lake above present natural background levels in Charleston Slough by more than the following:

<u>Charleston Slough Background</u>	<u>Incremental Increase</u>
< 50 units (JTU)	5 units, maximum
50-100 units	10 units, maximum
> 100 units	10% of background, maximum

- 4. Water quality within the Small Boat Lake shall be managed so as to prevent the presence of toxic or other deleterious substances in concentrations or quantities which will cause deleterious effects on aquatic biota, wildlife, or waterfowl, or which render any of these unfit for human consumption either at levels created in the receiving waters or as a result of biological concentrations.
- 5. Discharge of sewage or other wastes to waters of the State is prohibited.

B. Effluent Limitations

- 1. The discharge of lake water to waters of the United States, when the lake water contains constituents in excess of the following quality limits, is prohibited:

<u>Constituents</u>	<u>Units</u>	<u>Limits</u>
BOD ₅	mg/l	20 (maximum)
Oil and Grease	mg/l	15 (maximum)
Coliform	MPN/100 ml	240 median of 5 consecutive samples and 1000 maximum for any single sample.

2. Maximum limitations shall be applied to the values of the measurements obtained for any single grab sample.

C. Receiving Water Limitations

1. The discharge of lake water to Mountain View Slough or other waters of the United States shall not cause:
 - a. Visible, floating, suspended or deposited oil or other products of petroleum origin at any place;
 - b. Floating, suspended, or deposited macroscopic particulate matter or foam at any place;
 - c. Increased turbidity above background levels at any place by more than the following:

<u>Receiving Water Background</u>	<u>Incremental Increase</u>
<50 units (JTU)	5 units, maximum
50-100 units	10 units, maximum
>100 units	10% of background, maximum

D. Provisions

1. The discharger shall file with the Board technical reports on self-monitoring work performed according to the detailed specifications contained in any Monitoring and Reporting Program as directed by the Executive Officer.
2. The discharger shall file with the Board 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.
3. The discharger shall permit the Regional Board:
 - a. Entry upon premises in which an effluent source is located or in which any required records are kept,

- b. Access to copy any records required to be kept under terms and conditions of this Order,
 - c. Inspection of monitoring equipment or records, and
 - d. Sampling of any discharge.
4. The discharger shall maintain in good working order and operate as efficiently as possible any facility or control system installed by the discharger to achieve compliance with the waste discharge requirements.
5. In the event the discharger is unable to comply with any of the conditions of this Order due to:
- a. Breakdown of equipment;
 - b. Accidents caused by human error or negligence; or
 - c. Other causes such as acts of nature,

The discharger shall notify the Executive Officer by telephone as soon as he or his agents have knowledge of the incident and confirm this notification in writing within two weeks of the telephone notification. The written notification shall include pertinent information explaining reasons for the non-compliance and shall indicate what steps were taken to correct the problem and the dates thereof, and what steps are being taken to prevent the problem from recurring.

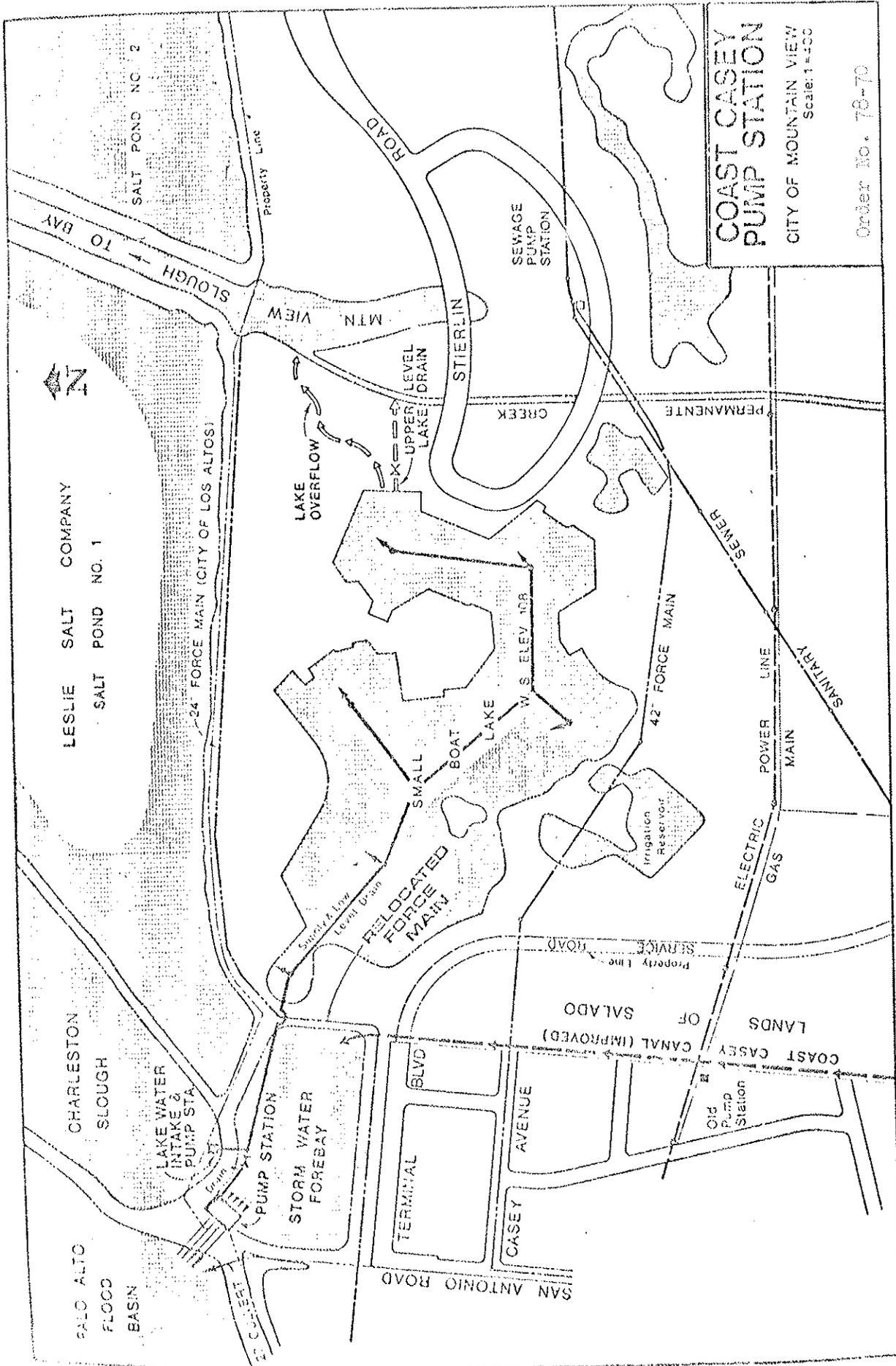
6. In the event of any change in control or ownership of land or facilities presently owned or controlled by the discharger, the discharger shall notify the succeeding owner or operator of the existence of this Order by a letter, a copy of which shall be forwarded to this Board.

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 Water Quality Control Board, San Francisco Bay Region, on August 15, 1978.

FRED H. DIERKER
Executive Officer

Attachments:

Map
Self-Monitoring Program



LESLIE SALT COMPANY
SALT POND NO. 1

SALT POND NO. 2



COAST CASEY PUMP STATION

CITY OF MOUNTAIN VIEW
Scale: 1" = 100'

Order No. 78-70

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
SAN FRANCISCO BAY REGION

SELF-MONITORING PROGRAM
FOR

City of Mountain View

Small Boat Lake - Shoreline Regional Park

Santa Clara

NPDES NO. CA 0038563

ORDER NO. 78-70

CONSISTS OF

PART A (dated Jan. 78)

AND

PART B (dated Aug. 15, 1978)

PART B

I. DESCRIPTION OF SAMPLING STATIONS

A. Intake

<u>Station</u>	<u>Description</u>
I-1	At a point in Charleston Slough immediately adjacent to the Small Boat Lake water intake structure, as indicated on the attached map.

B. Effluent

<u>Station</u>	<u>Description</u>
E-1	At a point in the Small Boat Lake immediately adjacent to the overflow channel, as indicated on the attached map.

C. Small Boat Lake Water

<u>Station</u>	<u>Description</u>
SML-1	At a point in the Small Boat Lake, near the north shore, in the vicinity of the SML-1 station shown on the attached map.
SML-2	At a point near the southeast shore in the Small Boat Lake in the vicinity of the SML-2 station shown on the attached map.
SML-3	At a point near the center of the Small Boat Lake in the vicinity of the SML-3 station shown on the attached map.

D. Receiving Waters

<u>Station</u>	<u>Description</u>
R-1	At a point in Mountain View Slough located not less than 1,000 feet bayward from the outfall, as shown on the attached map. Samples at this station shall preferably be taken just before high tide in order to be reasonably representative of "natural background" water quality in Mountain View Slough.

II. SCHEDULE OF SAMPLING AND ANALYSIS

A. The schedule of sampling and analysis shall be as given in Table I.

I, Fred H. Dierker, Executive Officer, hereby certify that the foregoing Self-Monitoring Program:

1. Has been developed in accordance with the procedure set forth in this Regional Board's Resolution No. 73-16 in order to obtain data and document compliance with waste discharge requirements established in Regional Board Order No. 78-70.
2. Does not include the following paragraphs of Part A:

C.1., C.3., C.4., C.5.b., C.5.c., C.5.d., C.5.e., D.1., D.2.a.,
D.3.a., D.4., F.2., F.3.g.
3. Has been ordered by the Executive Officer on July 16, 1974, and becomes effective immediately when the small Boat Lake is operational.
4. May be reviewed at any time subsequent to the effective date upon written notice from the Executive Officer or request from the discharger and revisions will be ordered by the Executive Officer.

FRED H. DIERKER
Executive Officer

Attachment:

Map
Table I

DATE ORDERED

TABLE I
SCHEDULE FOR SAMPLING, MEASUREMENTS, AND ANALYSES

SAMPLING STATIONS	I-1	E-1	SML	R-1					
TYPE OF SAMPLES	G	G	G	G					
Turbidity (Jackson Turbidity Units)	2W		2W	(1) 2W					
pH (units)	2W	2W	2W	2W					
Chlorophyll "a" ($\mu\text{g}/\text{l}$)	2W		2W	2W					
Dissolved Oxygen (mg/l)			2W						
Oil & Grease (mg/l)		2W							
Total Coliform (MPN/100 ml)		2W	2W						
Temperature ($^{\circ}\text{C}$)	2W	2W	2W	2W					
All Applicable Standard Observations		2W (3)	2W (3)	2W (1)					
BOD ₅		2W							

LEGEND FOR TABLE

TYPES OF SAMPLES

G = grab sample

FREQUENCY OF SAMPLING

2W = every 2 weeks (at least 2/month)

FOOTNOTES:

1. To be sampled while discharge from the Small Boat Lake is occurring.
2. Samples of intake water shall be collected on days coincident with sampling of Small Boat Lake water.
3. Small Boat Lake water standard observations shall be the same as those described for receiving waters in Part A, Paragraph C.5.a.