CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
SAN FRANCISCO BAY REGION

ORDER NO. 88-127

WASTE DISCHARGE REQUIREMENTS FOR:

Department of the Army
Corps of Engineers, San Francisco District
Upper Petaluma River Dredging and Spoils Disposal
Sonoma County

The California Regional Water Quality Control Board, San Francisco Bay Region (hereinafter the Board) finds that:

1. The Department of the Army, Corps of Engineers, San Francisco District (hereinafter the discharger) submitted a report of waste discharge dated June 6, 1988.

2. The discharger proposes to hydraulically dredge approximately 176,000 cubic yards of sediment from the Petaluma River between Cutoff "A" on the attached map and a point approximately 150 feet north of Western Avenue. The dredged spoils will be placed on land within an impoundment facility near Adobe Creek, with an overflow of wastewater to the Petaluma River.

3. Adoption of waste discharge requirements for this activity is exempt from the provisions of Chapter 3 (commencing with Section 21100) of Division 13 of the Public Resources Code (CEQA) pursuant to 14 CCR, Section 15304(g).

4. The Board adopted a revised Water Quality Control Plan (Basin Plan) for the San Francisco Bay Region on December 17, 1986. The Basin Plan contains water quality objectives for the Petaluma River, its tributaries, and contiguous waters.

5. The beneficial uses of the Petaluma River, its tributaries, and contiguous waters are:
   a. Water contact recreation
   b. Non-contact water recreation
   c. Warm and cold fresh water habitat
   d. Wildlife habitat
   e. Marine habitat
   d. Preservation of rare and endangered species
   e. Fish Migration and spawning
   f. Navigation

6. The Board has notified the discharger and interested agencies of its intent to prescribe waste discharge requirements for the discharge and has provided them with an opportunity to submit their written views and comments.

7. The Board, in a public meeting, heard and considered all comments pertaining to the discharge.

IT IS HEREBY ORDERED that the Department of the Army, Corps of Engineers, San Francisco District; in order to meet the provisions contained in Division 7 of the California Water Code and regulations adopted thereunder; shall comply with the following:

A. Effluent Limitations

The wastewater overflow as discharged to waters of the State from the land disposal area shall meet the following quality limits at all times:

a. Settleable Matter	1.0 ml/l-hr	maximum
b. pH	6.5 - 8.5	
c. Dissolved Sulfide	0.1 mg/l	maximum

B. Receiving Water Limitations

1. The dredging, treatment, or disposal of waste shall not create a nuisance as defined in Section 13050(m) of the California Water Code.

2. The dredging or disposal of wastes shall not cause:

   a. Floating, suspended, or deposited macroscopic particulate matter or foam in waters of the State at any place more than 1000 feet from the dredge or point of discharge or return flow;

   b. Bottom deposits or aquatic growths in water of the State at any place;

   c. Alteration of apparent color beyond present natural background levels in waters of the State at any place more than 100 feet from the dredge or point of discharge of return flow;

   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 quality limits 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
pH	A variation from natural ambient pH by more than 0.2 pH units.

f. Tidal waters of the State to exceed the following quality limits:

Toxic or other Deleterious Substances	None shall be present in concentrations or quantities which will cause deleterious effects on aquatic biota, wildlife, or waterfowl or which render any of theses unfit for human consumption either at levels created in receiving waters or as a result of biological concentration.

3. The turbidity of the waters of the State at any point beyond 100 feet from the point of discharge of the return flow shall not increase above background levels by more than the following:

Receiving Water Background	Incremental Increase
< 50 Units	5 Units, maximum
50 - 100 Units	10 Units, maximum
> 100 Units	10% of background, maximum

C. Prohibitions

Silt, sand, soil, clay, or other earthen materials from dredging, construction, or any other onshore operation in quantities sufficient to cause deleterious bottom deposits or turbidity or discoloration in excess of natural background levels in surface waters are prohibited.

D. Provisions

1. Dredging operations shall cease immediately whenever violations of requirements are detected by the self-monitoring program and operations shall not resume until alternative methods of compliance are provided.

2. The discharger shall comply with all sections of this Order immediately upon commencement of dredging operations and overflow.

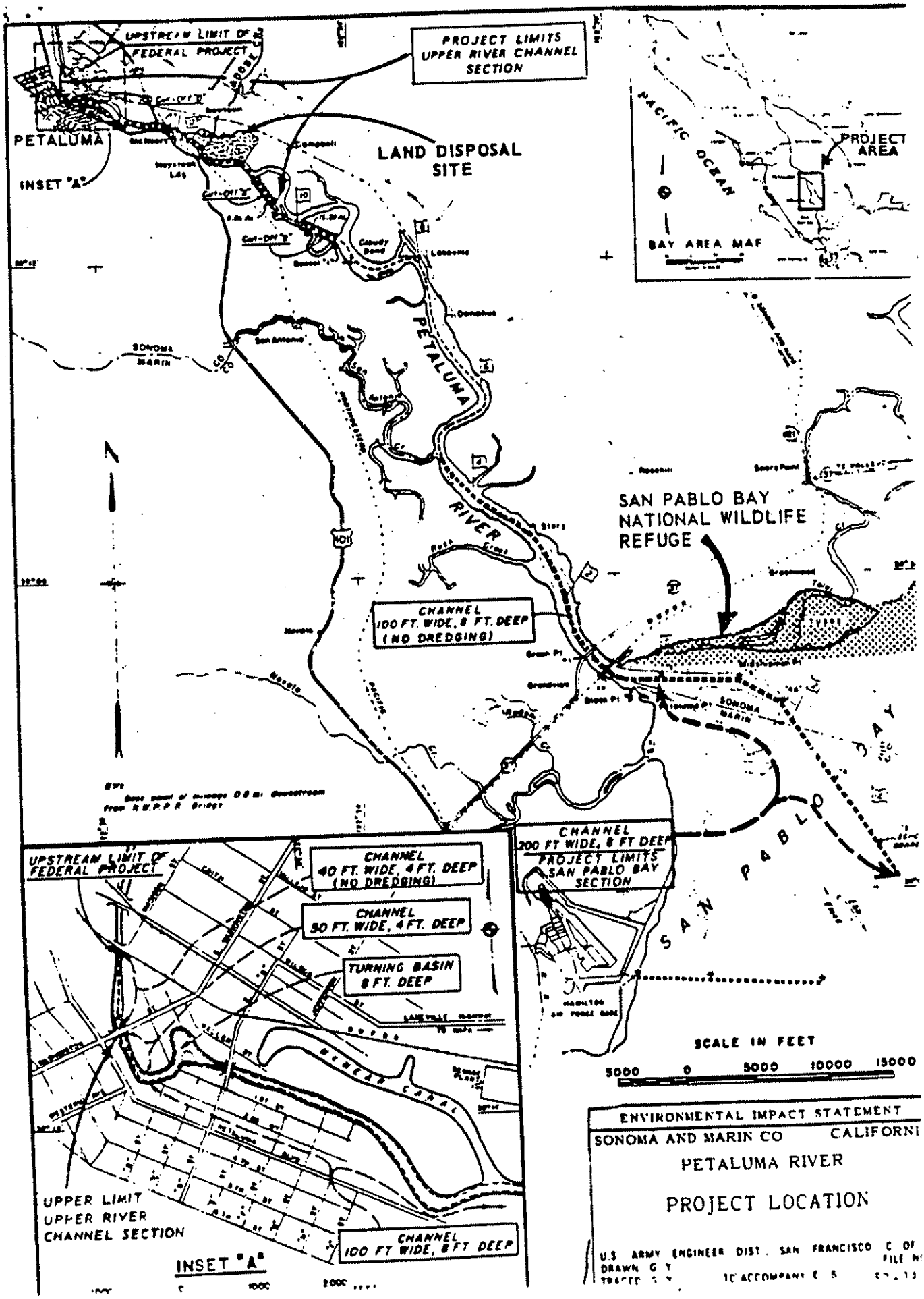
3. The discharger shall comply with the self-monitoring program as ordered by the Executive Officer.

4. The discharger shall file with the Board a report of waste discharge at least 120 days before making any material change or proposed change in the character, location, or volume of the discharge.

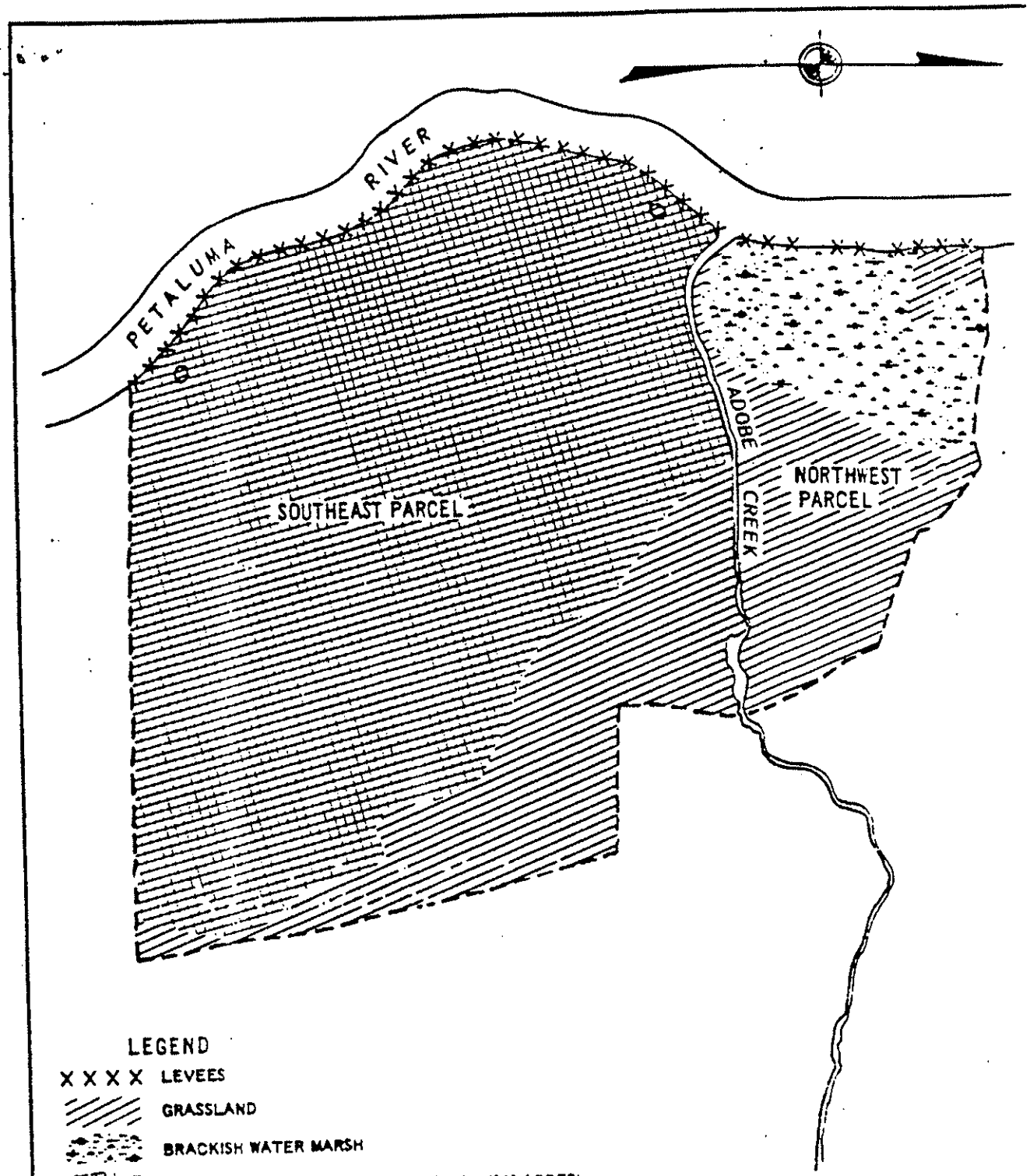
I, Steven R. Ritchie, Executive Officer, do hereby certify the foregoing is a full, true, and correct copy of an Order adopted by the California Regional Water Quality Control Board, San Francisco Bay Region on July 20, 1988.

STEVEN R. RITCHIE
Executive Officer

Attachments:
Site Map
Self-Monitoring Program


UPSTREAM LIMIT OF FEDERAL PROJECT
PROJECT LIMITS UPPER RIVER CHANNEL SECTION
PETALUMA
INSET "A"
LAND DISPOSAL SITE
PACIFIC OCEAN
PROJECT AREA
BAY AREA MAP
PETALUMA
RIVER
SONOMA
MARIN
SAN PABLO BAY NATIONAL WILDLIFE REFUGE
CHANNEL 100 FT. WIDE, 8 FT. DEEP (NO DREDGING)
CHANNEL 200 FT WIDE, 8 FT DEEP
PROJECT LIMITS SAN PABLO BAY SECTION
SAN PABLO BAY
UPSTREAM LIMIT OF FEDERAL PROJECT
CHANNEL 40 FT. WIDE, 4 FT. DEEP (NO DREDGING)
CHANNEL 50 FT. WIDE, 4 FT. DEEP
TURNING BASIN 8 FT. DEEP
HAMILTON AIR FORCE BASE
SCALE IN FEET
5000 0 5000 10000 15000
UPPER LIMIT UPPER RIVER CHANNEL SECTION
CHANNEL 100 FT WIDE, 8 FT DEEP
INSET "A"
ENVIRONMENTAL IMPACT STATEMENT
SONOMA AND MARIN CO CALIFORNI
PETALUMA RIVER
PROJECT LOCATION
U.S. ARMY ENGINEER DIST. SAN FRANCISCO
DRAWN
TRACED
TO ACCOMPANY

Inclosure 2



LEGEND

XXXX LEVEES

GRASSLAND

BRACKISH WATER MARSH

AREA COVERED BY DREDGE MATERIAL (145 ACRES) FIRST DISPOSAL CYCLE.

0' 500' 1000'

SCALE IN FEET

ENVIRONMENTAL STATEMENT

SONOMA AND MARIN COUNTIES CALIFORN

PETALUMA RIVER
LAND DISPOSAL AREA

U.S. ARMY ENGINEER DIST SAN FRANCISCO, CALIF
DRAWN
TRACED
CHECKED

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
SAN FRANCISCO BAY REGION

SELF-MONITORING PROGRAM
FOR

Department of the Army
Corps of Engineers
San Francisco District

Upper Petaluma River
Dredging and Spoils Disposal

Sonoma County

Order No 88-127

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
SAN FRANCISCO BAY REGION

I. General

Reporting responsibilities of waste dischargers are specified in this Regional Board's Resolution No. 73-16 and in Section 13225(a), 13268, 13383, and 13387(b) of the California Water Code.

The principle purposes of a monitoring program by a waste discharger, also referred to as a self-monitoring program, are:

A. To document compliance with waste discharge requirements and prohibitions established by the Regional Board.

B. To facilitate self-policing by the waste discharger in the prevention and abatement of pollution arising from waste discharge.

II. Sampling and Analytical Methods

Sample collection, storage, and analyses shall be performed according to the latest edition of

"Standard Methods for the Examination of Water and Wastewater"

prepared and published jointly by the American Public Health Association, American Water Works Association, and Water Pollution Control Federation; or other methods approved and specified by the Executive Officer of this Regional Board.

Water and waste analyses shall be performed by a laboratory approved for these analyses by the State Department of Health or a laboratory approved by the Executive Officer. The Director of the laboratory whose name appears on the certification shall supervise all the analytical work in his laboratory and shall sign all reports of such work to the Regional Board.

III. Definition of Terms

A. A grab sample is defined as an individual sample collected in less than 15 minutes.

B. Standard Observations - Land Impoundment Area

1. Evidence of leaching liquid from the area of confinement and estimated size of affected area (Show affected area on a sketch)

2. Odor: presence or absence, characterization, source, and distance of travel.

IV. Description of Sampling Stations and Schedule of Sampling, Analysis, and Observations

A. Description of Sampling Stations

1. Effluent

Station	Description
E-1	The point of discharge where wastewater overflow will be returned to the Petaluma River

2. Receiving Water - Effluent Receiving Water

Station	Description
C-1-E.1	At a point located within 20 feet downcurrent from the point of discharge from the land disposal area.
C-2-E.1	At a point located within the center of the visible wastefield 100 feet downcurrent from the point of discharge from the land disposal area.
C-3-E.1	At a point located within 200 feet downcurrent from the point of discharge from the land disposal area.
C-R-E.1	At a point located within 1000 feet upcurrent from the point of discharge from the land disposal area.

3. Receiving Water - Dredging Receiving Water

Station	Description
C-1-D	At a point located in the visible wastefield resulting from the dredging activity, and within 20 feet downcurrent from the point of dredging.
C-2-D	At a point located in the visible wastefield resulting from the dredging activity, and approximately 120 feet downcurrent from the point of dredging.
C-3-D	At a point located in the visible wastefield resulting from the dredging activity, and approximately 300 feet downcurrent from the point of dredging.
C-R-D	A a point located at least 1000 feet upcurrent from the point of dredging and not in the visible waste field.

4. Land Observations

Station	Description
L-1 thru L-'n'	Located at points spaced equidistantly along the perimeter levee of the land impoundment facility. The intervals between these points are not to exceed 200 feet.

B. Schedule of Sampling, Analyses, and Observations

1. This self-monitoring program is applicable during dredging and spoils disposal.

2. The discharger is required to perform sampling, analyses, and observations according to the schedule given in Table 1.

V. Reports to be Filed with the Board

A. Violation of Requirements

In the event the discharger is unable to comply with the conditions of the waste discharge requirements due to:

- maintenance work, power failure, or breakdown of equipment,

- accidents caused by human error or negligence, or
- other causes such as acts of nature,

the discharger shall notify the Regional Board office 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 report shall include pertinent information explaining reasons for the non-compliance and shall indicate what steps were taken to prevent the problem from recurring.

B. Self-monitoring Reports

Written reports shall be filed regularly every two weeks. The reports will be comprised of the following:

1. Letter of Transmittal

   A letter transmitting self-monitoring reports shall accompany each report. Such a letter shall include a discussion of requirement violations found during the last two weeks and actions taken or planned for correction of the violations

   The letter shall contain a statement by the official, under penalty of perjury, that to the best of the signer's knowledge the report is true and correct.

2. Results of Analyses and Observations

   Tabulations of the results from each required analyses and/or observations specified in Table 1 by date, time, type of sample, and station.

3. Map

   The map will show the locations of the sampling points as well as any areas of violations

I, Steven R. Ritchie, Executive Officer, do hereby certify 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 the Waste Discharge Requirements established in Regional Board Order No. 88-127.

2. Is effective on the date shown below.

3. 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.

STEVEN R. RITCHIE
Executive Officer

Effective Date: 7/21/88

Attachment:
Table 1

TABLE 1

Schedule of Sampling, Analyses, and Observations

Parameter	Stations		
	E-1	All C Stations	L-1 thru L-'n'
Type of Sample	G	G	O
Settleable Matter (ml/l-h)	D*	W	
pH (units)	D*	W	
Dissolved Sulfide (mg/l)	D*	W**	
Dissolved Oxygen (mg/l)		W	
Temperature (°C)		W	
Turbidity (JTU)		W	
Standard Observations			W

G = Grab Sample
O = Observation
D = Daily
W = Weekly

* Grab Samples during the first and last hour of operation
** To be performed if DO < 5.0 mg/l