CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
SAN FRANCISCO BAY REGION

ORDER 90-145

NPDES NO. CA0028321

WASTE DISCHARGE REQUIREMENTS FOR:
OLIN JONES SAND COMPANY
MARTINEZ, CONTRA COSTA COUNTY

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

1. Olin Jones Sand Company (hereinafter called the discharger), submitted an NPDES permit application (Report of Waste Discharge), dated January 13, 1989, for the reissuance of their waste discharge requirements contained in NPDES Permit CA00028321 for its sand reclamation facilities in Martinez, California.

2. The discharger hydraulically dredges an average of 1,000 tons per day of sand from Carquinez Strait. The sand water mixture is placed on a barge and transported to land. The sand is recovered, and the transport water is sent through two settling ponds in series in order to further remove solids. Waste 001 consists of about 0.45 million gallons per day of overflow water discharged through a spillway constructed inside the final retention pond. The wastewater then discharges to a marsh adjacent to Carquinez Strait, through a 26 inch pipe approximately 300 feet long.

3. The discharge is presently governed by waste discharge requirements contained in Order 84-1, adopted by the Board on January 18, 1984.

4. The Board adopted a revised Water Quality Control Plan for the San Francisco Bay Basin (Basin Plan) on December 17, 1986, and the State Water Resources Control Board approved it on May 21, 1987. The provisions of this permit are consistent with the revised Basin Plan.

5. The beneficial uses of Carquinez Strait are:

   a. Water contact recreation
   b. Non-contact water recreation
   c. Wildlife Habitat
   d. Preservation of Rare and Endangered Species
   e. Estuarine Habitat
   f. Fish migration and spawning
   g. Industrial service supply
   h. Navigation
   i. Commercial and Sport Fishing

6. Effluent limitation guidelines requiring the application of best available technology economically achievable (BAT) for this point source category have not been promulgated by the U.S. Environmental Protection Agency (EPA). Effluent limitations of this order are based on the Basin Plan instead.

7. The issuance of waste discharge requirements for this discharge is exempt from the provisions of Chapter 3 (commencing with Section 21000) of Division 13 of the Public Resources Code in accordance with Water Code Section 13389

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 that the discharger, in order to meet the provisions contained in Division 7 of the California Water Code and regulations adopted thereunder, and the provisions of the Federal Water Pollution Control Act and regulations and guidelines adopted thereunder, shall comply with the following:

A. Discharge Prohibitions

1. The bypassing of the retention ponds and direct discharge of the transport water to waters of the State is prohibited.

2. The discharge of wastewater to the adjacent marsh shall not cause bottom sediment deposits.

3. The erosion of sand into the adjacent marsh and waters of the State is prohibited.

B. Effluent Limitations

1. Representative samples of the waste discharge shall not contain constituents in excess of the following limits:

Constituent	Units	Maximum
Settleable Matter	ml/l/hr	1.0

2. The waste discharge shall not have a pH of less than 6.5 nor greater than 8.5.

C. Receiving Water Limitations

1. The discharge of waste shall not cause the following conditions to exist in waters of the state at any place:

a. Floating, suspended, or deposited macroscopic particulate matter or foam;

b. Bottom deposits or aquatic growths;

c. Alteration of turbidity or apparent color beyond present natural background levels;

d. Visible, floating, suspended, or deposited oil or other products of petroleum origin;

e. Toxic or other deleterious substances to be present 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 concentration.

2. The discharge of waste shall not cause the following limits to be exceeded in waters of the State in any place within one foot of the water surface:

   a. Dissolved oxygen: 7.0 mg/l minimum. The median dissolved oxygen concentration for any three consecutive months shall not be less than 80 percent of the dissolved oxygen content at saturation.

   b. Dissolved sulfide: 0.1 mg/l maximum.

   c. pH: The pH shall not be depressed below 6.5 nor raised above 8.5, nor caused to vary from normal ambient pH levels by more than 0.5 units.

3. The discharge shall not cause a violation of any applicable water quality standard for receiving waters adopted by the Board or the State Water Resources Control Board as required by the Federal Water Pollution Control Act and regulations adopted thereunder. If more stringent applicable water quality standards are promulgated or approved pursuant to Section 303 of the Federal Water Pollution Control Act, or amendments thereto, the Board will revise and modify this Order in accordance with such more stringent standards.

D. Provisions

1. Neither the treatment nor the discharge of pollutants shall create a nuisance or pollution as defined in Section 13050 of the California Water Code.

2. The discharger shall comply with the limitations, prohibitions, and other provisions of this order immediately upon its adoption by the Board.

3. The requirements prescribed by this Order supersede the requirements prescribed by Order No. 84-1 adopted on January 18, 1984. Order 84-1 is hereby rescinded.

4. The discharger shall comply with the attached Self-Monitoring Program as adopted by the Board.

5. The discharger shall comply with all items of the attached "Standard Provisions and Reporting Requirements," dated December, 1986.

6. This Order expires on November 14, 1995 and the discharger must file a Report of Waste Discharge in accordance with Title 23, California Administrative Code, not later than 180 days in advance of such date as application for issuance of new waste discharge requirements.

7. This Order shall serve as a National Pollutant Discharge Elimination System

Permit pursuant to Section 402 of the Federal Water Pollution Control Act, or amendments thereto, and shall take effect at the end of ten days from date of hearing, provided the Regional Administrator, U.S. Environmental Protection Agency Region IX, has no objections.

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 November 14, 1990.

STEVEN R. RITCHIE
Executive Officer

Attachments:

Location Map
Standard Provisions and Reporting Requirements, dated December, 1986
Self-Monitoring Program

FINAL SELF-MONITORING PROGRAM

PART B

DESCRIPTION OF SAMPLING STATIONS AND SCHEDULE OF SAMPLING, ANALYSIS & OBSERVATIONS

I. Sampling Station Location/Description

A. EFFLUENT - HYDRAULIC DREDGING OPERATION

Station	Description
E-001	The wastewater at the weir prior to discharge through the pipeline from the retention ponds to the adjacent marsh and the Carquinez Strait.

Station	Type of Sample and Frequency	Analyses	Units
E-001	Grab sample during the first and last hour of operation each day, daily when discharging	Settleable matter	ml/l-hr
	" " " "	pH	-

B. RECEIVING WATER - MARSH AREA

Station	Description
C-1-E-001	At a point located within 20 feet and under the influence of the discharge from the retention pond pipeline in the adjacent marsh
C-R-E-001	At a point located 100 feet east and out of the influence of the discharge from the retention pond pipeline in the adjacent marsh.

Station	Type of Sample & Frequency	Observations
Both C stations	Prior to and at the conclusion of each period of discharge	All standard observations as follows:

a. Evidence of oil, grease or foam: presence or absence, source, and size of affected area.

b. Discoloration: description of color, source, and size of affected area.

c. Bottom sediment deposits resulting from discharge: average depth of deposit, characterization, and size of affected area.

C. Land Observations at Sand Wastewater Retention Ponds

Station	Description
L-1 through L-n	Located along the perimeter levee of the land impoundment facility at equidistant intervals not to exceed 300 feet. A sketch showing the location of these stations will accompany each report.

Type of Sample and Frequency	Observation and Analyses
Observations twice weekly, during periods of discharge	All standard observations as stated below:

1. Determine height of the freeboard at lowest point of pond dikes
2. Evidence of leaching liquid from area of confinement and estimated size of affected area (show affected area on a sketch.)
3. Evidence of low points in dike resulting in overflow of water other than described in Report of Waste Discharge. Low points shall be filled immediately with appropriate fill material.

D. REPORTS TO BE FILED WITH THE REGIONAL BOARD

1. Violation of Requirements:

In the event the Discharger is unable to comply with the conditions of these waste discharge requirements and prohibitions due to:

(a) maintenance work, power failure, or breakdown of waste treatment equipment, or

(b) accidents caused by human error or negligence, or

(c) 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 problems from recurring.

2. Self-Monitoring Reports

Written reports shall be filed regularly for each calendar month by the fifteenth day of the following month. The reports shall be comprised of the following:

a. Letter of Transmittal:

A letter transmitting self-monitoring reports shall accompany each report. The letter shall include a discussion or requirements violations found during the past month and actions taken or planned for correcting violations, such as operation modifications and/or facilities expansion. If the discharger has previously submitted a detailed time schedule for correcting requirement violations, a reference to the correspondence transmitting such schedule will be satisfactory. 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.

b. Results of Analyses and Observations:

Tabulations of the results from each required analysis and/or observations specified in the Self-Monitoring Requirements by date, time, type of sample, and station.

I, Steven R. Ritchie, Executive Officer, do 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 by this Board.

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 may be ordered by the Executive Officer or Regional Board.

STEVEN R. RITCHIE
Executive Officer

Effective Date 11/14/90