CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
SAN FRANCISCO BAY REGION

ORDER NO. 90-048
NPDES PERMIT NO. CA0005321
WASTE DISCHARGE REQUIREMENTS FOR:

SOUTHWEST MARINE, INCORPORATED, SAN FRANCISCO DIVISION,
CITY AND COUNTY OF SAN FRANCISCO

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

1. Southwest Marine of San Francisco, Incorporated, hereinafter the discharger, leased property at the foot of 20th Street owned by the City of San Francisco and formerly occupied by Todd Shipyards incorporated. Todd Shipyard Incorporated was issued Order 85-10, an NPDES permit prescribing waste discharge requirements for the discharge of waste from shipyard maintenance. The discharger requested transfer of the NPDES permit in a letter and application dated January 22, 1988 stating that the same type of drydock and ship repair activity to which the permit applies would continue and that the discharger would comply with all the responsibilities contained in Order 85-10. The permit and Order were placed in the name of the current discharger by administrative action in a letter dated July 18, 1988 pursuant to 40 CFR 122.63(d).

2. The discharger applied for reissuance of the subject Order and NPDES permit by application dated July 14, 1989. Order 85-10 expired on January 16, 1990, but its conditions were continued in effect, in accordance with 40 CFR 122.6 and 23 CAC 2235.4, by letter of the Executive Officer, dated February 6, 1990.

3. The discharger repairs and performs maintenance on various seagoing vessels and currently discharges wastes containing pollutants into San Francisco Bay, a water of the United States.

4. The following wastes are discharged to surface waters:

   a. Waste SW-1 consists of stormwater runoff from the area used for outdoor sandblast grit storage prior to offsite removal as of March 1990. The grit piles are required to be covered with waterproof tarps during rain. It is anticipated that this grit storage will be moved under roof during 1990.

   b. Wastes 001/002 consist of the spent abrasives and paint residues which remain after sweeping on the two floating dry docks. These wastes may be carried into the bay when the dry docks are flooded for release of the vessel being serviced, or when stormwater or other water from the vessel runs off the dry dock floor while the dock is still afloat.

5. The Regional Board adopted a Revised Water Quality Control Plan for the

San Francisco Bay Basin on December 16, 1986. The Basin Plan contains water quality objectives for central San Francisco Bay. The beneficial uses of central San Francisco Bay, as identified in the Basin Plan, are:

a. Recreation (contact and non-contact).
b. Fish migration and spawning
c. Habitat for wildlife and estuarine organisms including some rare and endangered species.
d. Industrial service and process water supply.
e. Navigation.
f. Commercial and sport fishing.

6. Effluent limitations and toxic effluent standards established pursuant to Section 301, 304, and 307 of the Clean Water Act and amendments thereto are applicable to the discharge.

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 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. Effluent Limitations

1. The discharge of Waste SW-1 which contains constituents in excess of the following limits is prohibited:

Discharge	Constituent	Units	Maximum Daily
SW-1	Cadmium	ug/l	10
	Chromium (VI) (1)	ug/l	11
	Copper	ug/l	20
	Lead	ug/l	5.6
	Zinc	ug/l	58
	Oil and Grease	mg/l	20

2. Waste SW-1 shall not have pH of less than 6.5 nor greater than 8.5.

3. The discharge of wastes 001 and 002 shall not exceed those quantities remaining after the following measures have been taken: prior to the submergence of any portion of either of the floating dry docks, the discharger shall remove spent abrasives, paint residues, and other debris from those portions of the dry dock floor which are reasonably accessible, to a degree achievable by scraping and broom cleaning. After a vessel has been removed from a dry dock, the remaining areas of the floor which were previously inaccessible shall be cleaned by scraping and broom cleaning as soon as practical, and prior to the introduction of another vessel. This provision shall not apply in cases wherein a vessel must be introduced into the dry dock on an emergency basis, such as to prevent sinking, or leakage of oil or other materials. The Executive Officer shall be notified in such cases.

B. 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 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	5.0 mg/l minimum - median for any three consecutive months not less than 80% saturation. When natural factors cause lesser concentration(s) than specified above, then discharge shall not cause further reduction in the concentration of dissolved oxygen.
b.	pH	Variation from natural ambient pH by more than 0.5 pH units.

3. The discharger shall not cause a violation of any applicable water quality standards 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.

C. Provisions

1. Sediment Quality Monitoring Study

The discharger shall submit a sediment quality monitoring study proposal two months after the date of adoption of this order. The study shall be designed to monitor the sediment quality around the dry dock facilities on a quarterly basis for concentrations of total organotins, copper, lead, zinc, and toxicity as determined by a solid phase sediment bioassay employing an amphipod test specie. At least two sediment locations per dry dock shall be sampled, and results of samplings shall be compared with a reference sediment sample site in a location which can be presumed to be free from the effects of the discharger's activities and other potential impacts.

2. This Order supercedes Order No. 85-10 which is hereby rescinded.

3. Between September 1 and October 1 of each year, the discharger shall effectively remove all debris and process residue subject to stormwater runoff in the storage area and vicinity.

4. The discharger shall provide pumpout facilities to transfer sewage from vessel holding tanks to the municipal sanitary sewer from all dry docks, piers, and other areas under the discharger's control.

5. In the event that the first year of sediment monitoring results indicate no significant impact to the sediment in the vicinity of the dry docks by comparison with the reference sediment station, to the satisfaction of the Executive Officer of the Regional Board, then the sediment monitoring frequency shall be reduced from quarterly to semi-annually.

6. Neither the discharge nor its treatment shall creat a nuisance or pollution as defined in Section 13050 of the California Water Code.

7. The discharger shall develop and submit a Best Management Practices (BMP) program to the Board by October 1, 1990. The BMP program shall be consistent with the EPA regulations 40 CFR 125, Subpart K and the general guidance contained in the "NPDES Best Management Guidance Document", EPA Report No. 600/9-79-045, December 1979 (revised June 1981). A BMP program acceptable to the Executive Officer shall be implemented by January 1, 1990.

8. This Order includes the attached "Standard Provisions, Reporting Requirements and Definitions" dated December 1986.

9. The discharger shall notify the Regional Board if any activity has occurred or will occur which would result in the discharge of any toxic pollutant which is not limited by this Order.

10. This permit may be modified prior to the expiration date to include effluent limitations for toxic constituents determined to be present in significant amounts in the discharge.

11. 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 the date of hearing provided the Regional Administrator, U.S. Environmental Protection Agency, has no objections.

12. The discharger shall comply with the self-monitoring program as adopted by this Board and as may be amended by the Executive Officer.

13. This Order expires on April 18, 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.

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 April 18, 1990.

STEVEN R. RITCHIE
Executive Officer

Attachments:
Standard Provisions, Reporting Requirements & Definitions - December, 1986
Self-Monitoring Program

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
SAN FRANCISCO BAY REGION

SELF-MONITORING PROGRAM
FOR

SOUTHWEST MARINE INCORPORATED, SAN FRANCISCO DIVISION

NPDES NO. CA0005321

ORDER NO. 90-048

CONSISTS OF

PART A, dated 12/86

AND

PART B

Part B

I. DESCRIPTION OF SAMPLING STATIONS

A. Stormwater Runoff

Station	Description
SW-1	At the point of maximum stormwater flow from the area used as outdoor sandblast grit storage as of March, 1990, just prior to introduction to the Bay waters.

B. Drydock Area

E-001	The entire floor area of Dry Dock No. 1 which is submerged during vessel release.
E-002	The entire floor area of Dry Dock No. 2 which is submerged during vessel release.

II. SCHEDULE OF SAMPLING AND ANALYSIS

The schedule of sampling and analysis shall be as follows:

Station	Constituent	Units	Type Sampling	Minimum Frequency of Analysis
SW-1	Chromium(VI)	ug/l	grab	(1) Annually
	Lead	ug/l	grab	(1) Annually
	Zinc	ug/l	grab	(1) Annually
	Oil & Grease	mg/l	grab	(1) Annually
	pH	---	grab	(1) Annually
E-001 & E-002	-	-	-	(2)

(1) Determine at the first major discharge (1/2 inch rainfall) of the wet weather season, as measured by 18th and Delores Weather Station.

(2) Prior to the submergence of any portion of the dry dock, adequacy

of the cleanliness of areas will be observed, certified, and recorded, indicating the dates and times of dry dock use, observations and submergence.

III. Reporting

Self-Monitoring Reports shall be filed every third month by the fifteenth day of the following month, unless no runoff has occurred, or no ships have been drydocked.

I, Steven R. Ritchie, Executive, 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. 90-048.

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: April 25, 1990