

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD  
SAN FRANCISCO BAY REGION

ORDER NO. 91-032  
NPDES NO. CA0028746

WASTE DISCHARGE REQUIREMENTS FOR:

CROWLEY MARITIME CORPORATION AND  
PACIFIC DRY DOCK AND REPAIR COMPANY  
1441 EMBARCADERO  
OAKLAND, ALAMEDA COUNTY

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

1. Pacific Dry Dock and Repair Company, a division of Crowley Maritime Corporation, hereinafter called the discharger, by application dated February 9, 1989 has applied for reissuance of waste discharge requirements and a permit to discharge waste under the National Pollutant Discharge Elimination System (NPDES).
2. The discharger repairs and performs maintenance on various seagoing vessels on two marine railway type dry docks located at 1441 Embarcadero in Oakland. These operations produce waste containing pollutants that could be discharged into the Oakland Inner Harbor.
3. The wastes produced from the discharger's operation consists of the following:

Waste 001 consists of residual spent abrasives from sandblasting of vessel hulls, which remain on the floor of the dry docks after cleanup. The abrasives may contain decaying marine organisms, heavy metals, toxic paint residues, oil and grease, and other materials. The residual abrasives come in contact with bay water when the dry dock is submerged to refloat a vessel.

Waste 002 consists of runoff from water blasting of vessel hulls.

Waste 003 consists of storm water runoff from the facility.

Vessel bilge water and washdown water may contain oil and grease and other materials. This waste is pumped from a vessel to a storage tank for eventual disposal off site by a waste hauler. The wastes in the sanitary waste

holding tanks are disposed of in like manner.

4. The discharge is presently governed by Waste Discharge Requirements, Order No. 84-11 which allow discharge into Oakland Inner Harbor.
5. The Board adopted a revised Water Quality Control Plan for the San Francisco Bay Region (Basin Plan) in December 1986. The State Water Resources Control Board approved it in May 1987. The Basin Plan contains water quality objectives for Central San Francisco Bay and contiguous waters.
6. The beneficial uses of Central San Francisco Bay and contiguous water bodies are:
  - o Water contact recreation
  - o Non-contact water recreation
  - o Wildlife habitat
  - o Preservation of rare and endangered species
  - o Fish migration and spawning
  - o Industrial process supply
  - o Industrial service supply
  - o Navigation
  - o Commercial and sport fishing
  - o Shellfish harvesting
  - o Estuarine habitat
7. 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.
8. Effluent limitation guidelines requiring the application of best available technology economically achievable (BAT) have not been promulgated by the U.S. Environmental Protection Agency for this type of discharge. Effluent limitations of the Order are based on the Basin Plan, State Plans and Policies, current operational performance, and best professional judgement. The limitations are considered to be those attainable by BAT, in the judgement of the Board.
9. 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 (CEQA) pursuant to Section 13389 of the California Water Code.
10. The Board has notified the discharger and interested agencies and persons of its intent to reissue 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.

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

IT IS HEREBY ORDERED THAT Crowley Maritime Corporation and Pacific Dry Dock and Repair Company, in order to meet the provisions contained in Division 7 of the California Water Code and regulations adopted thereunder, and the provisions of the Clean Water Act and regulations and guidelines adopted thereunder, shall comply with the following:

A. Discharge Prohibitions

1. Except as provided in Section B.2. of this Order, the direct discharge of spent abrasive and paint residues from the dry docks, ships, or piers, to waters of the State is prohibited.
2. Except as provided in Section B.2. of this Order, the placement of spent abrasives and paint residue is prohibited in areas where the materials may be washed into waters of the State by stormwater runoff, or by tide or wave action.

B. Effluent Limitations

1. The discharge of Waste 002 which contains constituents in excess of the following limits is prohibited:

<u>Discharge</u>	<u>Constituent</u>	<u>Units</u>	<u>Average Daily</u>
Waste 002	Copper	ug/l	20
	Lead	ug/l	5.6
	Zinc	ug/l	80

2. The discharge of Waste 001 shall not exceed those quantities remaining after the following measures have been taken: Prior to submergence of the dry dock either to receive or refloat a vessel, the discharger shall ensure that all spent abrasives, paint residues and other visible debris are removed from those portions of the dry dock floor which are reasonably accessible, to a degree achievable by scraping and sweeping. After a vessel has been removed from a dock, the remaining areas of the floor which were previously inaccessible shall be cleaned by scraping or broom cleaning as soon as practicable, 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 of the Regional Board shall be notified in such cases.

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 temperature, 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      5.0 mg/L minimum. Median of any three consecutive months shall not be less than 80% saturation. When natural factors cause lesser concentration(s) than those specified above, then this 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.
  
  - c. Un-ionized ammonia      0.025 mg/L as N Annual Median  
0.4 mg/L as N maximum.
  
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 Clean Water Act and regulations adopted thereunder. If more stringent applicable water quality standards are promulgated or approved pursuant to Section 303 of the Clean Water Act, or amendments thereto, the Board will revise and modify this Order in accordance with such more stringent standards.

C. Provisions

1. The discharger shall develop and submit a Best Management Practices (BMP) program to the Board by August 1, 1991. A BMP program acceptable to the Executive Officer shall be implemented by November 1, 1991.
2. The requirements prescribed by this Order supersede the requirements prescribed by Order No. 84-11 adopted on March 21, 1984. Order No. 84-11 is hereby rescinded.
3. The discharger shall comply with all sections of this order immediately upon adoption except as provided below.

The discharger shall study the feasibility of meeting Effluent Limitations B.1. for Waste 002. Upon completion of the study the discharger shall take the steps necessary to comply with the effluent limitations of this Order for Waste 002 or cease the discharge of Waste 002 or document that an inordinate burden would be placed on the discharger relative to beneficial uses protected and that alternative effluent limitations or mitigation measures will ensure the protection of beneficial uses. In the interim the discharger shall provide temporary measures to filter paint solids from pressure wash water runoff prior to discharge to the Bay. These tasks shall be completed in accordance with the following time schedule:

<u>Task</u>	<u>Complete Task</u>
Complete feasibility study and submit plan for compliance with Effluent Limitations B.1. for Waste 002 or submit documentation for alternative limits.	September 1, 1991
Achieve compliance with Effluent Limitations B.1. for Waste 002 or approved alternate limits or cease the discharge of Waste 002 to Bay waters.	January 1, 1992

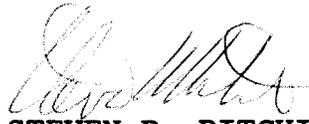
4. The discharger shall review and update annually its

contingency plan as required by Board Resolution No. 74-10. The discharge of pollutants in violation of this Order where the discharger has failed to develop and/or implement a contingency plan will be basis for considering such discharge a willful and negligent violation of this Order pursuant to Section 13387 of the California Water Code.

5. The discharger shall comply with the self-monitoring program as adopted by the Board and as may be amended by the Executive Officer.
6. Neither the discharge nor its treatment shall create a nuisance or pollution as defined in Section 13050 of the California Water Code.
7. The discharger shall comply with all items of the attached "Standard Provisions, Reporting Requirements and Definitions" dated December 1986, except items B.2 and C.8.
8. All applications, reports, or information submitted to the Regional Board shall be signed and certified pursuant to Environmental Protection Agency regulations (40 CFR 122.41K).
9. Pursuant to Environmental Protection Agency regulations [40 CFR 122.42(a)] the Discharger must notify the Regional Board as soon as it knows or has reason to believe (1) that they have begun or expect to begin, use or manufacture of a pollutant not reported in the permit application, or (2) a discharge of a toxic pollutant.
10. This Order expires March 20, 1996. The discharger must file a report of waste discharge in accordance with Title 23, Chapter 3, Subchapter 9 of the California Administrative Code not later than 180 days in advance of such expiration date as application for issuance of new waste discharge requirements.
11. This Order shall serve as a National Pollutant Discharge Elimination System Permit pursuant to Section 402 of the Clean Water Act or amendments thereto, and shall become effective 10 days after date of its adoption provided the Regional Administrator, Environmental Protection Agency, has no objection. If the Regional Administrator objects to its issuance, the permit shall not become effective until such objection is withdrawn.

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 March 20, 1991.



**STEVEN R. RITCHIE**  
Executive Officer

**Attachments:**

Standard Provisions & Reporting  
Requirements, December 1986  
Self Monitoring Program  
Resolution 74-10

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD  
SAN FRANCISCO BAY REGION

SELF-MONITORING PROGRAM

FOR

PACIFIC DRY DOCK AND REPAIR COMPANY

1441 EMBARCADERO

OAKLAND, ALAMEDA COUNTY

NPDES NO. CA0028746

ORDER NO. 91-032

SMP CONSISTS OF

PART A, dated December 1986

AND

PART B, Ordered March 20, 1991

PART B

I. DESCRIPTION OF SAMPLING STATIONS

A. PRESSURE WASHING RUNOFF

<u>Station</u>	<u>Description</u>
E-002	Any point at which a representative sample of pressure washing runoff can be obtained prior to discharge to the Bay.

B. STORMWATER RUNOFF

<u>Station</u>	<u>Description</u>
E-003	At any point at which a representative sample of stormwater runoff from the facility can be obtained.

C. DRY DOCK AREA

<u>Station</u>	<u>Description</u>
E-001	The entire floor area of the Dry Dock which is submerged during vessel release.

II. SCHEDULE OF SAMPLING AND ANALYSIS

The schedule of sampling and analysis shall be as follows:

<u>Station</u>	<u>Constituent</u>	<u>Units</u>	<u>Type Sampling</u>	<u>Minimum Frequency of Analysis</u>
E-002	Copper	ug/l	grab	Monthly (1)
	Lead	ug/l	grab	Monthly (1)
	Zinc	ug/l	grab	Monthly (1)
E-003	Copper	ug/l	grab	Annually (2)
	Lead	ug/l	grab	Annually (2)
	Zinc	ug/l	grab	Annually (2)
E-001	-	-	-	(3)

(1) Or per pressure wash water discharge, whichever is less.

(2) Sample at the first major discharge of the wet weather season

- (3) 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. MODIFICATIONS OF PART A

Delete items D.1, D.2.a., D.2.c, D.2.f, D.2.g, D.3., D.4., D.5., E.1.e., E.1.f., E.3.b, E.4., E.5.b., F.3., F.5., G.4.c. Instead of monthly reports as specified in G.4., written reports shall be submitted quarterly.

IV. MISCELLANEOUS REPORTING

- A. Violations of any permit limitations shall be reported on the quarterly transmittal letter accompanying the self-monitoring report in the following format or equivalent:

			Value (or range
1. Parameter of	Violation	Permit	of values) of
<u>Violated Limit</u>	<u>Ratio</u>	<u>Limit</u>	<u>Violation</u>
2. Remedy or proposed remedy to restore compliance.			

I, Steven R. Ritchie, 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. 90-032.
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

DATE ORDERED March 20, 1991