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California Regional Water Quality Control Board

Los Angeles Region

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August 5, 1998

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WASTE DISCHARGE REQUIREMENTS LOS ANGELES HARBOR CHANNEL DEEPENING DREDGING PROJECT (CF NO. 98-024) BERTHS 118-120 MAINTENANCE DREDGING PROJECT (CF NO. 98-053)

Reference is made to our letter dated July 2, 1998, which transmitted tentative requirements for dredging and disposal operations in the vicinity of Berths 118-120 and the channel deepening project within Los Angeles Harbor.

In accordance with the California Water Code, this Board, at a public meeting held on August 3, 1998, reviewed the tentative requirements, considered all factors in the case and adopted Order Nos. 98-062 (Berths 118-120) and 98-063 (Channel Deepening) relative to these waste discharges (copies enclosed). The Standard Provisions, which were sent to you with the tentative requirements, were adopted without change and are part of these orders. A copy will be mailed upon request.

All monitoring reports should be sent to the Regional Board, Attention: Data and Information Management Unit. Reference all technical monitoring reports required by these Orders to our Compliance File Nos. 7926 (Berths 118-120) and 7927 (Channel Deepening). We would appreciate it if you would not combine other reports, such as progress or technical reports, with your monitoring reports, but would submit each type of report as a separate document.

Should you have any questions, please contact me at (323) 266-7616.

J. MICHAEL LYONS
Environmental Specialist IV

Enclosures

cc: See attached mailing list

California Environmental Protection Agency

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Our mission is to preserve and enhance the quality of California's water resources for the benefit of present and future generations.



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Mr. Adam S. Birkenbach
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Mailing List

Bill Campbell, Non-point Source Loan Unit, SWRCB
Larry Simon, California Coastal Commission (San Francisco)
Jim Raives, California Coastal Commission (San Francisco)
Bill Paznokas, California Department of Fish and Game (Long Beach)
Fari Tabatabai, U.S. Corps of Engineers (Los Angeles)
Brian Ross, U.S. Environmental Protection Agency (San Francisco, WTR-8)
Steven John, U.S. Environmental Protection Agency (Los Angeles)
Martin Kenney, U.S. Fish and Wildlife Service (Carlsbad)
Robert Hoffman, National Marine Fisheries Service (Long Beach)
Mark Gold, Heal the Bay
Jaque Forrest, Heal the Bay
Todd Le, Port of Los Angeles

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**STATE OF CALIFORNIA
CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD, LOS ANGELES
REGION**

ORDER NO. 98-063

**WASTE DISCHARGE REQUIREMENTS
FOR
LOS ANGELES HARBOR DEPARTMENT
(CHANNEL DEEPENING DREDGING PROJECT)
(FILE NO. 98-024)**

The California Regional Water Quality Control Board, Los Angeles Region, finds:

1. The Los Angeles Harbor Department, Port of Los Angeles (the Port) has filed an application for Waste Discharge Requirements for dredging activities in Los Angeles Harbor.
2. The Port proposes to dredge approximately 5.0 million cubic yards of material to deepen existing navigation channels within Los Angeles Harbor to accommodate new generation cargo vessels which draft up to 46 feet in depth. The proposed project would deepen the channels from the existing depth of approximately -45 feet Mean Lower Low Water (MLLW) to approximately -50 feet MLLW. The Port also proposed to remove five utility lines, including a Mobil oil line, a Pacific Bell telephone line, a City of Los Angeles Department of Water and Power (DWP) water line, a Los Angeles County Department of Public Works sewer line and a DWP power line; the latter three lines will be replaced during or prior to the dredging project, using directional drilling and microtunneling methods. In addition, a new 36-inch DWP reclaimed water line crossing will be installed during this project, via open trench excavation.
3. The Port proposes to dispose of approximately 3.0 million cubic yards of dredged material at the "LA-2" and "LA-3" ocean disposal sites within federal waters. The Port proposes to reuse approximately 2.0 million cubic yards of coarse-grained material as construction material within the Pier 400 Stage II Landfill site. Any dredged material deemed unsuitable for ocean disposal by the U.S. Army Corps of Engineers and the U.S. Environmental Protection Agency will be disposed of at the Anchorage Road Soil Storage Site.
4. The Port has conducted a sampling and testing program to characterize the sediments in the areas to be dredged. The area was divided into three types of dredge units: 1) coarse-grained (CG), representing primarily coarse-grained sediments (sand and silty sand) and interlayered deposits of coarse and fine-grained sediments; 2) fine-grained (FG), representing primarily fine-grained sediments (silt, sandy silt and clay) and interlayered deposits of coarse- and fine-grained sediments; and 3) formation material

(FM), representing intact, disturbed and/or weathered Malaga Mudstone (silt) deposits and intact and/or weathered Timms Point Silt (silt, sandy silt and silty sand) deposits). The FM dredge unit was subdivided into 2 subunits, the CG dredge unit was subdivided into 10 subunits, and the FG dredge unit was subdivided into 7 subunits for sampling and analysis of the sediments.

Sediment Characteristics - Channel Deepening Dredging Project

Parameter	Fine-Grained (FG)	Coarse-Grained (CG)	Formation-Material (FM)
Silver	<0.1 - 0.57 ppm	<0.1 - 0.15 ppm	0.15 - 1.5 ppm
Arsenic	0.40 - 5.8 ppm	0.71 - 6.4 ppm	1.3 - 8.7 ppm
Cadmium	<0.1 - 3.6 ppm	<0.1 - 0.31 ppm	0.33 - 14 ppm
Chromium	0.5 - 72 ppm	16 - 46 ppm	33 - 140 ppm
Copper	11 - 98 ppm	6.6 - 36 ppm	32 - 120 ppm
Mercury	0.02 - 1.7 ppm	<0.02 - 0.17 ppm	0.037 - 1.3 ppm
Nickel	13 - 54 ppm	10 - 27 ppm	16 - 110 ppm
Lead	3.5 - 69 ppm	3.4 - 31 ppm	6.1 - 75 ppm
Selenium	<0.1 - 3.6 ppm	<0.1 - 0.31 ppm	2.8 - 17 ppm
Zinc	43 - 170 ppm	31 - 100 ppm	66 - 230 ppm
Total DDT	0.58 - 99 ppb	0.48 - 47 ppb	18 - 247 ppb
Total PCB	<16 - 320 ppb	<14 - 180 ppb	<21 - 300 ppb
Total PAH	<62 - 2800 ppb	<14 - 4100 ppb	<16 - 1950 ppb

5. The United States Environmental Protection Agency (EPA) has notified the United States Army Corps of Engineers, in a letter dated May 1, 1998, that the dredged materials in the western portion of the test area FG-2B, the top layer depositional material in FM-1A and B, and the materials from DWP-VA and VB are not suitable for ocean disposal. EPA concurs on inclusion of all coarse-grain dredged materials within the Pier 400 site.
6. The Regional Board adopted a revised Water Quality Control Plan for the Los Angeles River Basin on June 13, 1994. The Water Quality Control Plan contains water quality objectives for the Los Angeles-Long Beach Harbor. The requirements contained in this Order as they are met will be in conformance with the goals of the Water Quality Control Plan.
7. The beneficial uses of the inner harbor waters are: industrial service supply, navigation, water contact recreation (potential use), non-contact water recreation, commercial and sport fishing, marine habitat, preservation of rare and endangered species, and shellfish harvesting (potential use). The beneficial uses of the outer harbor waters are: navigation,

water contact recreation, non-contact water recreation, commercial and sport fishing, marine habitat, preservation of rare and endangered species, and shellfish harvesting (potential use).

8. The Environmental Impact Report (State Clearinghouse Number 96121008) for the Channel Deepening Project, Port of Los Angeles, was finalized in January 1998.
9. Prior to commencement of any dredging or disposal operations, the Port plans to obtain a Master Plan Amendment from the California Coastal Commission, a Coastal Permit, and a U.S. Army Corps of Engineers Permit for the proposed project.
10. With proper management of the dredging and disposal operations, the project is not expected to release significant levels of contaminants to the Harbor waters or other State waters nor adversely impact beneficial uses.

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

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

IT IS HEREBY ORDERED that the Los Angeles Harbor Department, Port of Los Angeles, 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 as amended, and regulations and guidelines adopted thereunder, shall comply with the following:

A. Discharge Requirements

1. The removal and placement of dredged/excavated material shall be managed such that the concentrations of toxic pollutants in the water column, sediments or biota shall not adversely affect beneficial uses.
2. Enclosed bay and estuarine communities and populations, including vertebrate, invertebrate and plant species, shall not be degraded as a result of the discharge of waste.
3. The natural taste and odor of fish, shellfish or other enclosed bay and estuarine resources used for human consumption shall not be impaired as a result of the discharge of waste.
4. Toxic pollutants shall not be discharged at levels that will bioaccumulate in aquatic resources to levels which are harmful to human health.

5. There shall be no acute toxicity or chronic toxicity in ambient waters as a result of the discharge of waste.
6. Dredging, excavation or disposal of dredge spoils shall not cause any of the following conditions in the receiving waters:
 - a. The formation of sludge banks or deposits of waste origin that would adversely affect the composition of the bottom fauna and flora, interfere with the fish propagation or deleteriously affect their habitat, or adversely change the physical or chemical nature of the bottom.
 - b. Turbidity that would cause substantial visible contrast with the natural appearance of the water outside the immediate area of operation.
 - c. Discoloration outside the immediate area of operation.
 - d. Visible material, including oil and grease, either floating on or suspended in the water or deposited on beaches, shores, or channel structures outside the immediate area of operation.
 - e. Objectionable odors emanating from the water surface.
 - f. Depression of dissolved oxygen concentrations below 5.0 mg/l at any time outside the immediate area of operation.
 - g. Any condition of pollution or nuisance.

B. Provisions

1. The above specifications are valid only for dredging and disposal of bottom material as proposed.
2. The discharger shall notify this Board immediately by telephone of any adverse conditions in receiving waters or adjacent areas resulting from the removal of dredge materials; written confirmation shall follow within one week.
3. A copy of this Order shall be made available at all times to project construction personnel.
4. The discharger shall provide the following information to the Board:
 - a. A copy of the final Department of the Army permit issued for the dredge and disposal operations.

- b. The scheduled date of commencement of each dredging operation and an engineering plan and profile of the excavation and the disposal site, other than the "LA-2" or "LA-3" ocean disposal sites, at least two weeks prior to commencement.
 - c. Notice of termination of the operation, within one week following the termination date.
5. The discharger shall submit, under penalty of perjury, technical reports to the Board in accordance with specifications prepared by the Executive Officer.
6. In accordance with Section 13260(c) of the Water Code, the discharger shall file a report of any material change or proposed change in the character, location, or volume of the waste.
7. These requirements do not exempt the discharger from compliance with any other laws, regulations, or ordinances which may be applicable: they do not legalize this waste discharge, and they leave unaffected any further restraint on the disposal of wastes at this site which may be contained in other statutes or required by other agencies.
8. This Order includes the attached "Standard Provisions and General Monitoring and Reporting Requirements" ("Standard Provisions"). If there is any conflict between provisions stated hereinbefore and said "Standard Provisions", those provisions stated hereinbefore prevail.
9. Pursuant to provisions of California Codes of Regulation 3857, the Regional Board is issuing the Waste Discharge Requirements in lieu of a Section 401 Water Quality Certification for the proposed dredging project.
10. This order shall expire on June 30, 2003.

I, Dennis A. Dickerson, Executive Officer, do hereby certify that the foregoing is a full, true, and correct copy of an Order adopted by the California Regional Water Quality Control Board, Los Angeles Region, on August 3, 1998.



DENNIS A. DICKERSON
Executive Officer

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**CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
 LOS ANGELES REGION
 MONITORING AND REPORTING PROGRAM NO. 7927
 FOR
 LOS ANGELES HARBOR DEPARTMENT, PORT OF LOS ANGELES
 (CHANNEL DEEPENING DREDGING PROJECT)
 (FILE NO. 98-024)**

Receiving Water Monitoring

The following sampling protocol shall be undertaken during the dredging and/or fill project. Sampling for the receiving water monitoring shall commence at least one week prior to the start of the dredging and fill operations and continue at least one week following the completion of all such operations. Sampling shall be conducted a minimum of once a week during dredging operations. Sampling shall be conducted down current of the dredge sites at least one hour after the start of dredging operations. All receiving water monitoring data shall be obtained via grab samples or remote electronic detection equipment. Receiving water samples shall be taken at the following stations:

<u>Station</u>	<u>Description</u>
A	30.5 meters (100 feet) up current of the dredging operations, safety permitting.
B	30.5 meters (100 feet) down current of the dredging operations, safety permitting.
C	91.5 meters (300 feet) down current of the dredging operations.

The following shall constitute the receiving water monitoring program:

Water Column Monitoring

<u>Parameters</u>	<u>Units</u>	<u>Station</u>	<u>Frequency</u>
Dissolved oxygen ¹	mg/l	A thru C	Weekly
Light transmittance ¹	% Transmittance	" "	"
pH ¹	pH units	" "	"
Suspended solids ²	mg/l	A & C	Twice Monthly
Metals and organics ³	µg/l	A & C	Monthly

¹Measurements shall be taken throughout the water column (at a minimum, at 2-meter increments).

²Three depths (surface, mid-depth, bottom) shall be sampled.

³One depth (mid-depth) shall be sampled. Metals analyses shall include arsenic, cadmium, chromium, copper, lead, mercury, nickel, silver, selenium and zinc. Organic analyses shall include DDTs, PCBs, PAHs, phthalates and tributyltin.

Color photographs shall be taken at the time of sampling to record the presence and extent of visible effects of dredging operations. These photographs shall be submitted with the receiving water monitoring reports.

The discharger shall provide Regional Board staff with a receiving water monitoring program field schedule at least one week prior to initiating the program. Regional Board staff shall be notified of any changes in the field schedule at least 48 hours in advance.

OBSERVATIONS

The following receiving water observations shall be made and logged daily during dredging or excavating operations:

- a. Date and time;
- b. Direction and estimated speed of currents;
- c. General weather conditions and wind velocity;
- d. Tide stage;
- e. Appearance of trash, floatable material, grease, oil or oily slick, or other objectionable materials;
- f. Discoloration and/or turbidity;
- g. Odors;
- h. Depth of dredge operations during previous day;
- i. Amount of material dredged the previous day;
- j. Cumulative total amount of material dredged to date.

GENERAL PROVISIONS

All sampling, sample preservation, and analyses shall be performed in accordance with the latest edition of "Guidelines Establishing Test Procedures for Analysis of Pollutants" promulgated by the United States Environmental Protection Agency.

All chemical analyses shall be conducted at a laboratory certified for such analysis by the State Department of Health Services, or approved by the Executive Officer.

The discharger shall calibrate and perform maintenance procedures on all monitoring instruments and equipment to insure accuracy of measurements, or shall insure that both activities will be conducted.

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

All samples shall be representative of the waste discharge under normal operating conditions.

REPORTING

Monitoring reports shall be submitted within 10 days following each weekly sampling period. In reporting, the discharger shall arrange the monitoring data in tabular form so that dates, time, parameters, test data, and observations are readily discernible. The data shall be summarized to demonstrate compliance with the waste discharge requirements. A final report, summarizing the results of the weekly monitoring and reporting the total volume discharged, shall be submitted within one month of completion of the project.

Each monitoring report must affirm in writing that:

All analyses were conducted at a laboratory certified for such analyses by the State Water Resources Control Board or approved by the Executive Officer and in accordance with current EPA guidelines or as specified in the Monitoring Program.

For any analysis performed for which no procedure is specified in the EPA guidelines or in the Monitoring Program, the constituent or parameter analyzed and the method or procedure used must be specified in the report.

GENERAL PROVISIONS FOR REPORTING

For every item where the requirements are not met, the discharger shall submit a statement of the actions undertaken or proposed which will bring the discharge into full compliance with requirements at the earliest time and submit a timetable for correction.

Each report shall contain the following completed declaration:

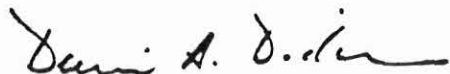
"I declare under penalty of perjury that the foregoing is true and correct. Executed on the ____ day
of _____
at _____.

_____(Signature)

_____(Title)

These records and reports are public documents and shall be made available for inspection during business hours at the office of the California Regional Water Quality Control Board, Los Angeles Region.

Ordered by:



DENNIS A. DICKERSON
Executive Officer

Date: August 3, 1998