
Los Angeles Regional Water Quality Control Board

December 20, 2018

Ms. Heather A. Tomley
Director of Environmental Planning
Port of Long Beach
4801 Airport Plaza Drive
Long Beach, CA 90815

WASTE DISCHARGE REQUIREMENTS
PORT OF LONG BEACH FIVE-YEAR MAINTENANCE DREDGING
(FILE NO. 92-11, CI NO. 10450)

Dear Ms. Tomley,

Reference is made to our letter issued on October 19, 2018, which transmitted copies of the tentative waste discharge requirements and a receiving water monitoring and reporting program for dredging and disposal of dredged material from Port of Long Beach Five-Year Maintenance Dredging, Port of Long Beach, Los Angeles County.

In accordance with administrative procedures, this Board at a public meeting held on December 13, 2018, at 9:00 a.m., at the City of Simi Valley Council Chambers, located at 2929 Tapo Canyon Road, Simi Valley, California, considered all factors in the case and adopted Order No. R4-2018-0173 relative to this waste discharge (copy enclosed). The Standard Provisions, which were sent to you with the tentative requirements, were adopted without change and are part of this order.

All monitoring reports should be submitted electronically to the Regional Board via the following email address: losangeles.losangeles@waterboards.ca.gov. All submittals should reference the Compliance File (CI) No. 10450 required by the order. Please do not combine reports – each report should be submitted as a separate document.

Should you have any questions, please telephone me at (213) 576-6681 or email me at jun.zhu@waterboards.ca.gov.

Sincerely,



Jun J. Zhu, Ph.D.
Senior Environmental Scientist
Watershed Regulatory Section

Enclosures: Waste Discharge Requirements
Monitoring and Reporting Program

Cc: Elizabeth Payne, Water Quality Certification Unit, SWRCB
David Coupe, Office of Chief Counsel, SWRCB
Larry Simon, California Coastal Commission
Lisa Mangione, U.S. Army Corps of Engineers
Allan Ota, U.S. Environmental Protection Agency
Melissa Scianni, U.S. Environmental Protection Agency
Carol Roberts, U.S. Fish and Wildlife Service
Bryan Chesney, National Marine Fisheries Service
William Paznokas, California Department of Fish and Wildlife
Annalisa Moe, Heal the Bay
James Vernon, Port of Long Beach
Janna Morimoto, Port of Long Beach

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

ORDER NO. R4-2018-0173

**RENEWAL OF WASTE DISCHARGE REQUIREMENTS
FOR
PORT OF LONG BEACH
(FIVE-YEAR MAINTENANCE DREDGING)
(FILE NO. 92-11)**

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

1. The Port of Long Beach (POLB) filed an application for renewal of Waste Discharge Requirements (WDRs) contained in Regional Board Order No. R4-2013-0159, adopted on October 3, 2013, for maintenance dredging activities within the Long Beach Harbor (refer to Figures 1 and 2). Due to shoaling and sedimentation along wharves and channels in the harbor, dredging is necessary to restore the authorized design depths in order to maintain adequate water depths and safety for ships within the Long Beach Harbor District.
2. Order No. R4-2013-0159 authorized POLB to dredge up to 150,000 cubic yards (cy) of material per year for a maximum of 750,000 cy over a five-year time period in response to shoaling and sedimentation problems as necessary at various berths in the Inner Harbor, Middle Harbor, Southeast Basin and Outer Harbor. The dredged volume limits were retained for this Order. Since 2014, POLB dredged approximately 170,919 cy of sediment using two dredging methods, knockdown and mechanical/clamshell, from different locations within the port (Table 1).
3. Order No. R4-2013-0159 also authorized POLB to use a drag beam or similar equipment to level or "knock down" high spots in the vicinity of berthing areas. Within the port, there are often times where the prop wash from the large propellers of commercial vessels creates isolated high spots near the berths. These high spots usually consist of less than one to two feet of accumulated sediment, often very close to the edge of the wharf and can spread over a wide area, rendering the use of mechanical or hydraulic dredging equipment infeasible and/or unnecessarily costly. Small knockdown operations may reduce the need for and frequency of maintenance dredging and may have fewer environmental impacts than traditional dredging (e.g. less turbidity produced by knockdowns, less disturbance to the benthic community). The following criteria and guidelines must be met to utilize drag beam or knockdown dredging: 1) limited to a maximum of 15,000 cy of material per year; 2) total volume for each event limited to a

December 20, 2018

maximum of 2,000 cy; 3) cannot be performed in the same area more than once per year; 4) limited to the approved project boundary for the designated berth or channel as determined by the Los Angeles Region Contaminated Sediments Task Force and subject to written approval from the Executive Officer of the Los Angeles Regional Board; 5) sediment sampling (i.e., elutriate testing) will be performed prior to each project.

In addition, POLB was authorized by Order No. R4-2013-0159 to dispose and reuse sediments within a constructed fill within the port (e.g., Middle Harbor Redevelopment Slip and Basin Fill, Pier G South Slip Fill), at an approved upland site within the port subject to Executive Officer approval (refer to Figure 3), or at the Western Anchorage Dredged Material Beneficial Reuse and Disposal Site/Western Anchorage Sediment Storage Site (WASSS). The WASSS is an aquatic site for sediments that are environmentally suitable for ocean dumping as prescribed by 40 CFR 227.13 and may later be reused as fill within the port. These disposal options are described below:

- Middle Harbor Redevelopment Slip and Basin Fill - The Middle Harbor Redevelopment Project involves the fill of the Pier E Slip No. 1 and a portion of the East Basin. Several rock containment dikes were constructed at the southern boundary of Slip No. 1 and a final containment dike will be constructed from Pier E Berth E24 to Pier F, Berth F10. The containment dikes are designed to effectively contain chemically contaminated materials and to control runoff of decant water from the settling of dredged material at the site. Any contaminated sediments placed at this site will be capped and sequestered by the placement of uncontaminated materials on top and a sand filter layer behind the containment dike in accordance with regulatory requirements and permits. Accordingly, disposal of dredged material at this disposal site is not expected to pose any significant environmental concerns.
- Pier G South Slip Fill - The fill site is located at the southern portion of the Pier G Slip. A rock containment dike will be designed and constructed to effectively contain chemically contaminated materials and to control runoff of decant water from the settling of dredged material at the site. Any contaminated sediments placed at this site will be capped and sequestered by the placement of uncontaminated materials on top and a sand filter behind the containment dike in accordance with regulatory requirements and permits. Accordingly, disposal of dredged material at this site is not expected to pose any significant environmental concerns.
- Port Upland Processing Area - Dredged material also may be placed upland on POLB property temporarily for sorting and drying of the material prior to disposal at an approved upland disposal facility. Port upland processing areas may include Pier S or various other upland sites throughout the port. All processing sites will be designed with proper best management practices designed to contain dredged materials on site. Dredged material would be placed within a retention berm for sorting and drying and a discharge weir would help to regulate

the flow of decant water from the confined area. Once the material has been dried and sorted, scrap steel will be recycled, and rock will be crushed into miscellaneous road base. Non-recyclable debris and sediment will be disposed of at a licensed upland landfill with its own WDRs and in accordance with federal and state regulations. Disposal at such an upland disposal facility shall be subject to written approval from the Executive Officer of the Los Angeles Regional Board.

- Currently, WASSS is for temporary or permanent storage of ocean suitable sediment. POLB is in the process of amending the Port Master Plan to re-designate WASSS as a confined aquatic disposal (CAD) site, which will be renamed as OHSPER and designed to contain both sediment suitable for aquatic placement and contaminated sediment unsuitable for unconfined aquatic placement. It is anticipated that this re-designation of the site through the Port Master Plan amendment process will be completed in 2020. At that time, the POLB will need to submit an amendment to the Report of Waste Discharge (ROWD) to seek approval to add it as a CAD site for this Order.
4. POLB has requested renewal of the WDRs with a proposed change to Order No. R4-2013-0159 by adding the LA-2 Ocean Dredged Material Disposal Site (ODMDS) (refer to Figure 4). LA-2 is a United States Environmental Protection Agency (USEPA) designated ocean disposal site for dredged material and is currently managed at an annual disposal capacity of 1 million cy for the ocean disposal of dredged material from the Los Angeles County and Orange County regions. The site is located approximately 6.8 miles offshore from the entrance to the Port of Los Angeles in federal waters.
 5. The existing WDRs have provided an efficient permitting mechanism for maintenance dredging and routine structural maintenance activities with the port. As noted above, routine maintenance dredging would total up to 150,000 cy per year, including up to 15,000 cy for knockdown dredging per year, and no more than 750,000 cy in a 5-year period. For maintenance dredging, the disposal option will be dictated by the quality of the dredged material as indicated by a sediment characterization study and will be determined by the Southern California Dredged Material Management Team (SCDMMT), which includes (but is not limited to) the Regional Board, the California Coastal Commission, the USEPA and the United States Army Corps of Engineers (USACE). A sediment characterization study typically consists of sediment sample collection, grain size analysis, chemical analysis (including sediment chemistry, tissue chemistry and/or elutriate testing) and biological testing (including solid and suspended particulate phase toxicity testing, and bioaccumulation potential analysis) as outlined in regulatory guidance documents, such as *Evaluation of Dredged Material Proposed for Ocean Disposal*, also known as the "Green Book" (USEPA and USACE, 1991) and the *Inland Testing Manual* (USEPA and USACE, 1998). However, the requirements for specific analysis or testing are usually driven by the proposed disposal option. For

example, biological testing is normally required when the dredged material is proposed to be disposed of at an unconfined aquatic disposal site such as an ocean disposal site or temporary aquatic storage site.

POLB will conduct a pre-knockdown study prior to each knockdown dredging operation to assess the potential impacts of knockdown dredging on water quality. An SAP for each pre-knockdown study will be submitted to the SCDMMT for approval. For each pre-knockdown study, POLB proposes to collect one sample per 500 linear feet of knockdown area along a wharf face and per 250 feet offshore. Elutriate testing will be performed for each composite sample. A Sampling and Analysis Report (SAR) for each pre-knockdown study will also be presented to and discussed at the SCDMMT monthly meetings, where the scope of the knockdown operation will be approved. No receiving water monitoring will be required during knockdown dredging since the limited magnitude of the activity is not expected to cause adverse water quality impacts.

APPLICABLE PLANS, POLICIES AND REGULATIONS

The following plans, policies and regulations apply to the discharges authorized by this Order to protect waters of the state.

6. Water Quality Control Plan for the Coastal Watersheds of Los Angeles and Ventura Counties (Basin Plan) - The Basin Plan: (i) designates beneficial uses for surface and groundwater, (ii) establishes narrative and numeric water quality objectives that must be attained or maintained to protect the designated beneficial uses, and (iii) sets forth implementation programs to protect the beneficial uses of the waters of the state. The Basin Plan also incorporates State Water Board Resolution 68-16, Anti-degradation Policy. In accordance with Water Code section 13263, this Order implements the plans, policies and provisions of the Regional Board's Basin Plan.

The designated beneficial uses of the Los Angeles-Long Beach inner harbor and marina waters are: industrial service supply, navigation, water contact recreation, non-contact water recreation, commercial and sport fishing, marine habitat, preservation of rare, threatened and endangered species, and shellfish harvesting (potential). 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, threatened and endangered species, and shellfish harvesting (potential use).

7. State Water Board Resolution No. 68-16 "Statement of Policy with Respect to Maintaining High Quality of Waters in California" (also called the "Anti-degradation Policy") requires the Regional Board, in regulating the discharge of waste, to maintain the high quality of waters of the state until it is demonstrated that any change in quality will be consistent with maximum benefit to the people of the State, will not unreasonably affect beneficial uses, and will not result in water quality less than that described in the

State Water Board's policies (e.g., quality that exceeds water quality objectives). Further, any activity that produces waste must meet waste discharge requirements that will result in the best practicable treatment or control of the discharge necessary to assure that (a) a pollution or nuisance will not occur and (b) the highest quality consistent with maximum benefit to the people of the State will be maintained.

8. Consistent with Resolution No. 68-16, this Order requires best practicable treatment or control of the discharge to ensure that pollution will not occur. 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.
9. The POLB, as the lead agency carrying out the project, will be responsible for environmental review under, and documentation of its compliance with, the California Environmental Quality Act (CEQA), including notification to responsible agencies. The Regional Board is a responsible agency under CEQA and will participate in the environmental evaluation of each proposed maintenance project. Impacts on water quality will be evaluated during the required pre-dredge sediment and elutriate testing, and compliance with the Monitoring and Reporting Program contained within this Order will further ensure that no significant water quality impacts occur during dredging operations. The POLB issued a Revised Notice of Exemption (categorical exemption pursuant to CEQA Guidelines Sections 15301, Existing Facilities and 15304(g) Minor Alterations to Land) for the 5-year Maintenance Dredging Project on September 11, 2018, pursuant to Public Resources Code section 21000 et seq.
10. POLB has applied to the USACE for a renewal of five-year maintenance dredging permit, SPL-2013-00475-LM, with the same conditions contained within the existing permit. The USACE is expected to issue a final permit following the adoption of WDRs by the Los Angeles Regional Water Quality Control Board.

The Regional Board has notified POLB and interested agencies and persons of its intent to prescribe WDRs for this discharge and has provided them with an opportunity to submit their written views and recommendations.

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

Any person aggrieved by this action of the Regional Water Board may petition the State Water Board to review the action in accordance with California Water Code Section 13320 and California Code of Regulations, title 23, Sections 2050 and following. The State Water Board must receive the petition by 5:00 p.m., 30 days after the date of this Order, except that if the thirtieth day following the date of this Order falls on a Saturday, Sunday, or state holiday, the petition must be received by the State Water Board by 5:00 p.m. on the next

business day. Copies of the law and the regulations that are applicable to the filing of petitions may be found on the Internet at: http://www.waterboards.ca.gov/public_notices/petitions/water_quality or will be provided upon request.

IT IS HEREBY ORDERED that the Port of Long Beach, 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, in particular those identified in Finding number 6 above.
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. POLB shall conduct the monitoring required and comply with the reporting requirements outlined in the attached Monitoring and Reporting Program, which is incorporated by reference as part of these Waste Discharge Requirements.
7. 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 Waste Discharge Requirements specified above are valid only for dredging of a maximum volume of 150,000 cy of sediment per year, including up to 15,000 cy for knockdown dredging per year, and a maximum volume of 750,000 cy of sediment over a five-year period, and disposal of dredged material at Pier G South Slip, Middle Harbor Pier E Slip No.1 and portion of East Basin, Port Upland Processing Area, WASSS, and LA-2 ODMDS.
2. POLB shall manage Pier G South Slip, Middle Harbor Pier E Slip No.1 and a portion of the East Basin, and the Port Upland Processing Area and WASSS to effectively contain chemically contaminated materials and to prevent migration of contaminants from the disposal sites into waters of the State.
3. Prior to disposal of dredged material at Pier G South Slip Fill, the Middle Harbor Redevelopment Slip and Basin Fill, the Pier S Upland Processing Area, or the WASSS, POLB shall conduct a sediment characterization study to evaluate the suitability of the proposed disposal option. A Sampling and Analysis Plan (SAP) for the sediment characterization study will be submitted to the SCDMMT for approval. A Sampling and Analysis Report (SAR) for the sediment characterization study will also be presented to and discussed at the SCDMMT monthly meetings, where the proposed disposal option of the dredged material must be approved prior to the disposal of any dredged material. POLB shall request and must obtain written approval from the Executive Officer prior to the disposal of any dredged material. For the Pier S Upland Processing Area disposal option, the request shall include the proposed control methods. A request for land disposal at a new site, including appropriate supporting documentation, shall be submitted at least 60 days prior to the anticipated commencement of any dredging or disposal operations.
4. Prior to disposal of dredged material at the USEPA's LA-2 ODMDS, POLB shall conduct a sediment characterization study to evaluate the suitability of the proposed disposal option. An SAP for the sediment characterization

study will be submitted to the SCDMMT for approval. An SAR for the sediment characterization study will also be presented to and discussed at the SCDMMT monthly meetings, where the proposed disposal option of the dredged material and must be approved prior to the disposal of any dredged material. A request for ocean disposal at this site, including appropriate supporting documentation, shall be submitted at least 60 days prior to the anticipated commencement of any dredging or disposal operations. The supporting documentation shall include a SAR approved by SCDMMT, summarizing the results and findings from physical analysis, chemical analysis, and biological analysis (including toxicity testing and bioaccumulation potential analysis).

5. Prior to each knockdown dredging operation, POLB shall conduct a pre-knockdown study to assess the potential impacts of knockdown dredging on water quality. An SAP for each pre-knockdown study will be submitted to the SCDMMT for approval. For each pre-knockdown study, POLB will collect one sample per 500 linear feet of knockdown area along a wharf face and per 250 feet offshore. Elutriate testing will be performed on a composite sample for each knockdown area. An SAR for each pre-knockdown study will also be presented to and discussed at the SCDMMT monthly meetings, where the scope of the knockdown operation and must be approved prior each knockdown dredging operation. No receiving water monitoring will be required during knockdown dredging since the limited magnitude (less than 2000 cy) of the activity is not expected to cause adverse water quality impacts. POLB shall also request and must obtain written approval from the Executive Officer prior to each knockdown dredging operation. A request for knockdown operation, including appropriate supporting documentation, shall be submitted at least 60 days prior to the anticipated commencement of any knockdown operations. The supporting documentation shall include a SAR approved by SCDMMT, summarizing the results and findings from elutriate testing.
6. POLB shall notify the Regional Board immediately by telephone of any adverse conditions in receiving waters or adjacent areas resulting from the removal of dredge materials; written confirmation by POLB to the Regional Board shall follow within one week.
7. A copy of this Order shall be made available at all times to project construction personnel.
8. POLB shall provide the following information to the Regional Board:
 - a. A copy of the final permit issued by the Department of the Army 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 at least two weeks prior to commencement.
 - c. Notice of termination of the operation, within one week following the termination date.
9. POLB shall submit, under penalty of perjury, technical reports to the Regional Board in accordance with specifications prepared by the Executive Officer.
10. In accordance with Water Code section 13260, subdivision (c), POLB shall file a report of any material change or proposed change in the character, location, or volume of the waste.
11. These waste discharge requirements do not exempt POLB from compliance with any other laws, regulations, or ordinances which may be applicable.
12. In accordance with Water Code section 13263, subdivision (g), these requirements shall not create a vested right to continue to discharge and are subject to rescission or modification. All discharges of waste into waters of the State are privileges, not rights.
13. This Order includes Attachment N: "Standard Provisions, General Monitoring and Reporting Requirements" ("Standard Provisions") and the attached Monitoring and Reporting Requirements, both of which are incorporated herein by reference. If there is any conflict between provisions stated hereinbefore and said "Standard Provisions", those provisions stated hereinbefore prevail. If there is any conflict between requirements stated in the attached Monitoring and Reporting Program and said "Standard Provisions", the former shall prevail.
14. This Order fulfills the requirements for a Clean Water Act Section 401 Water Quality Certification for the proposed project. Pursuant to California Code of Regulations, title 23, section 3860, the following three standard conditions shall apply to this project:
 - a. this certification action is subject to modification or revocation upon administrative or judicial review, including review and amendment pursuant to Water Code section 13320 and pursuant to California Code of Regulations, title 23, section 3867.
 - b. this certification action is not intended and shall not be construed to apply to any activity involving a hydroelectric facility and requiring a Federal Energy Regulatory Commission (FERC) license or an amendment to a FERC license unless the pertinent certification

application was filed pursuant to California Code of Regulations, title 23, section 3855, subdivision (b) and the application specifically identified that a FERC license or amendment to a FERC license for a hydroelectric facility was being sought; this certification is conditioned upon total payment of any fee required pursuant to California Code of Regulations, division 3, chapter 28, and owed by the applicant.

15. This Order shall expire on December 31, 2023.
16. This Order terminates the requirements and provisions of Regional Board Order No. R4-2013-0159, except for enforcement purposes.

I, Deborah J. Smith, 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 December 13, 2018.


DEBORAH J. SMITH
Executive Officer

vjz

Table 1. Port of Long Beach Maintenance Dredging Projects (2014-2018).

Location	Dredge Completion Year	Volume Dredged (Cy)	Dredging Method
Pier G Berths G214-G215	2014	38	Knockdown
NRG Intake Structure Demolition	2014	1,068	Mechanical/Clamshell
Pier J Turning Basin ^a	2014	72,856	Mechanical/Clamshell
Pier G Berth G236 at Berth G242	2015	81	Knockdown
Pier F Berths F204-F205	2015	120	Knockdown
Pier T Berth T118 – T119	2015	120	Knockdown
Pier B Berths B77-B80	2015	274	Knockdown
West Basin Approach to Pier T-Phase 2	2015	599	Knockdown
Pier F Berth F208-F209	2015	758	Knockdown
Pier J Berth J266 WFM 0-250	2015	1,190	Knockdown
Pier J Berths J245-J247	2015	1,467	Knockdown
Pier J South Access Channel Clean-up	2015	8,403	Mechanical/Clamshell
Pier A Berths A88-A96 (to -49 FT. MLLW)	2016	805	Knockdown
Pier T Berth T-124	2016	1,184	Knockdown
Pier F Berths F206-F207	2016	2,089	Mechanical/Clamshell
Pier B Berths B82-B83	2016	6,643	Mechanical/Clamshell
Pier A Berths A88-A96 (to -50 FT. MLLW)	2016	13,882	Mechanical/Clamshell
Pier B Berths B84-B87	2016	17,312	Mechanical/Clamshell
Pier J South Berths J260-J264	2018	42,030	Mechanical/Clamshell
Total dredged volume (cy)		170,919	

a Northeast of access channel to buoy.



Figure 1. Location Map for Port of Long Beach.

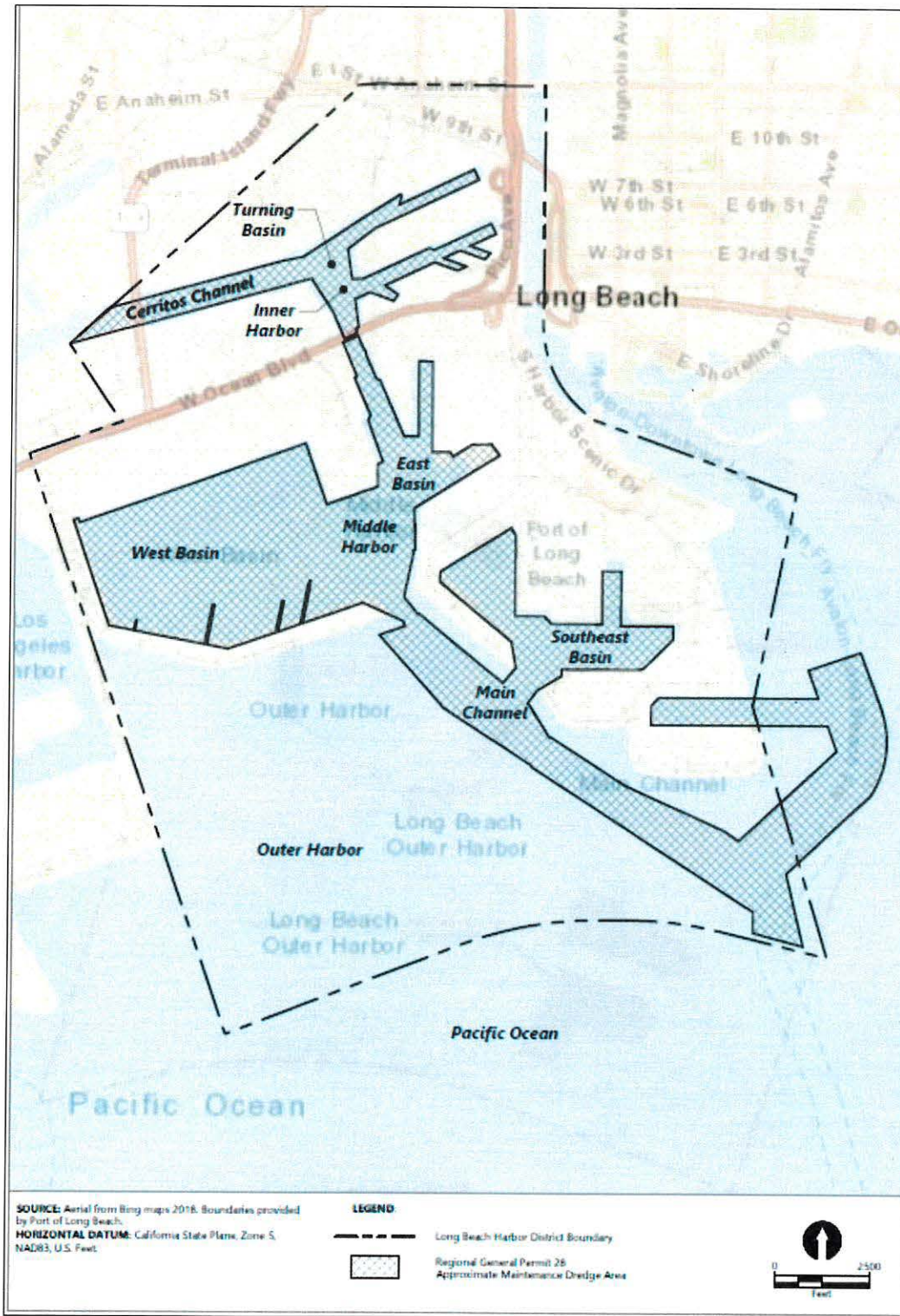
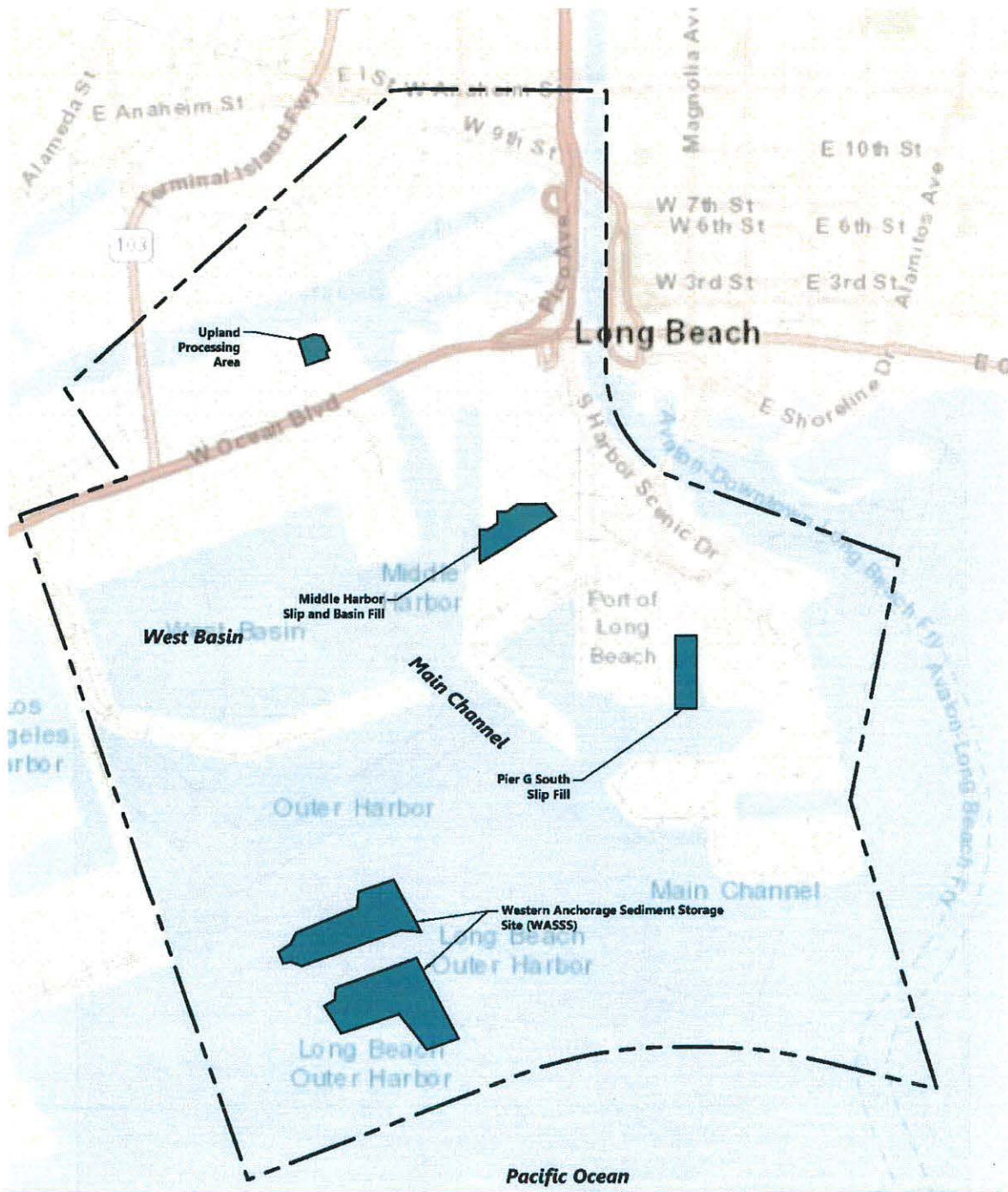


Figure 2. Potential Maintenance Dredging Areas Within the Port of Long Beach.



SOURCE: Aerial from Bing maps 2018. Boundaries provided by Port of Long Beach.
HORIZONTAL DATUM: California State Plane, Zone 5, NAD83, U.S. Feet.

NOTE: The Los Angeles/Long Beach LA-2 Ocean Disposal Site is not shown on this figure. LA-2 is located at 33°37.10' N, 118°17.40' W

LEGEND:
 - - - - - Long Beach Harbor District Boundary
 ■ Proposed Disposal Sites

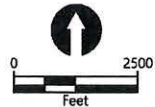


Figure 3. Proposed Disposal Sites Within the Port of Long Beach.

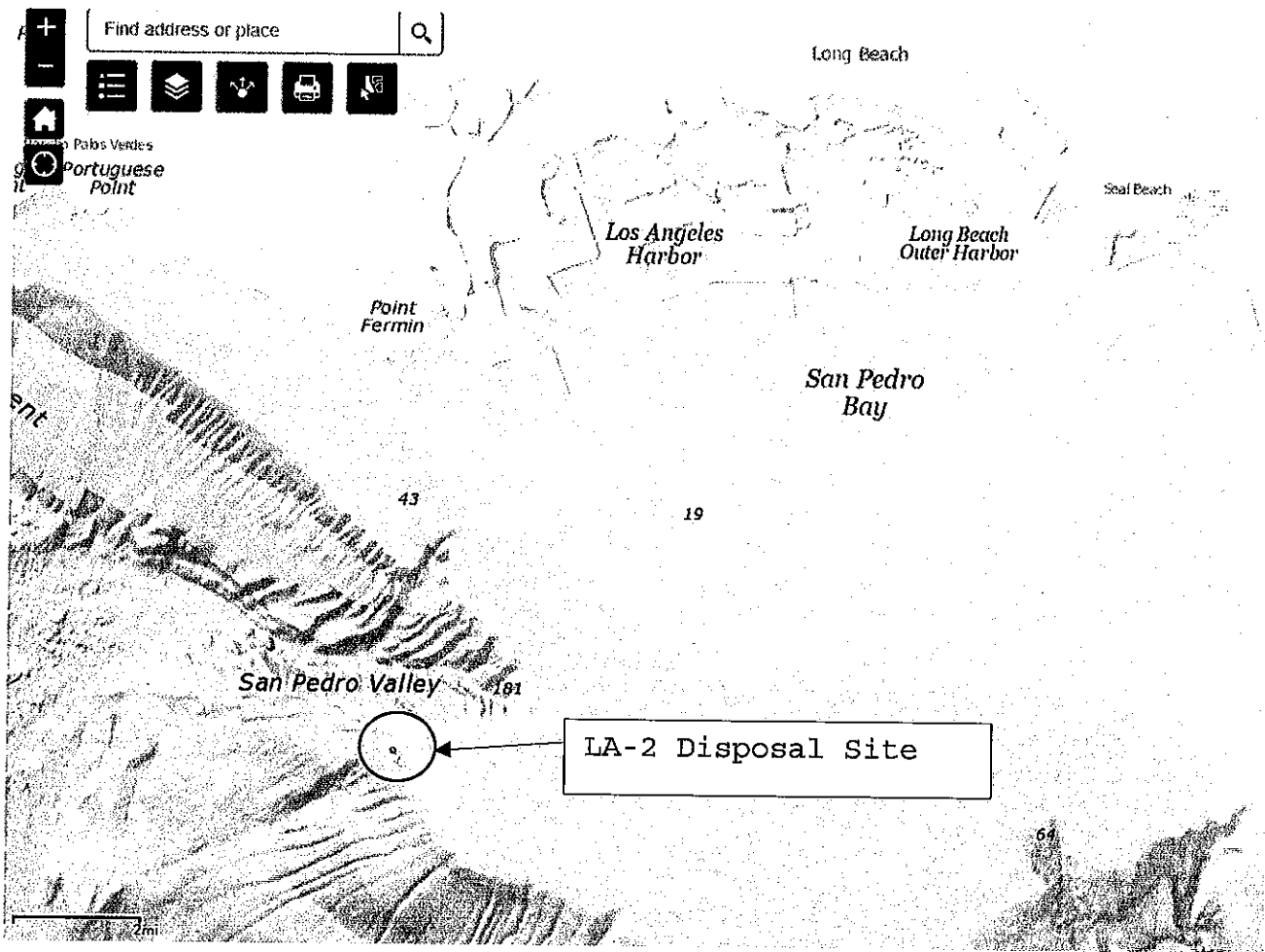


Figure 4. Proposed Disposal Site Outside the Port of Long Beach.

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

MONITORING AND REPORTING PROGRAM NO. 10450
FOR
PORT OF LONG BEACH
(FIVE-YEAR MAINTENANCE DREDGING)
(FILE NO. 92-11)

1. Receiving Water Monitoring

The following sampling protocol shall be undertaken by the Port of Long Beach (POLB) during the proposed dredging 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.

Due to the configuration of certain confined areas in the port (e.g., slips and dead-end channels, corners of piers/wharfs within basins) and the fine-grained nature of dredged material in these locations, the POLB expects and has experienced prolonged suspension of dredge-mobilized particulates within confined areas. Light transmittance exceedances have been observed in the past under such conditions (only in the bottom-depth samples), but have been attributed to the configuration of the area and lack of tidal circulation, rather than due to dredging operation practices. Consequently, under these conditions, monitoring stations may be located at the desired approximate distance from the designated project area boundary (e.g., from the entrance of a slip or dead-end channel), rather than from the actual dredging activity.

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 or the designated project area boundary.
B	30.5 meters (100 feet) down current of the dredging operations, safety permitting or the designated project area boundary.
C	91.5 meters (300 feet) down current of the dredging operations or the designated project area boundary.
D	Control site (area not affected by dredging operations).

December 20, 2018

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-D	Weekly ²
Light transmittance ¹	% Transmittance	" "	"
pH ¹	pH units	" "	"
Suspended solids ³	mg/l	" "	"

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

²During the first two weeks of dredging, stations shall be sampled two times per week.

³Mid-depth shall be sampled.

Water column light transmittance values from Stations C and D shall be compared for the near surface (1 meter below the surface), for mid-water (averaged values throughout the water column, excluding the near surface and bottom) and for the bottom (1 meter above the bottom). If the difference in % light transmittance between stations C and D for the near surface or mid-water or bottom is 30% or greater, water samples shall be collected at mid-depth (or the depth at which the maximum turbidity occurs) and analyzed for trace metals, DDTs, PCBs and PAHs. At a minimum, one set of water samples shall be collected and analyzed for these chemical constituents during the maintenance dredging operation.

In the event that the water column light transmittance values from Stations C and D exceed the 30% trigger described above, POLB shall conduct the standard water quality monitoring described above for three consecutive days following the date of exceedance. POLB shall notify the Regional Board, the California Coastal Commission, the United States Environmental Protection Agency and the United States Army Corps of Engineers within 24 hours following observance of the transmissivity exceedance. POLB shall investigate whether the exceedance is due to obvious dredging operational problems and can be corrected easily and quickly. However, if the turbidity problem persists or recurs, the POLB shall look for other causes of the problem and evaluate whether additional, more aggressive best management practices are required to eliminate the exceedances; this evaluation shall be performed in consultation with the four regulatory agencies listed above.

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.

POLB 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.

2. 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.

3. 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, Environmental Laboratory Accreditation Program (ELAP), or approved by the Executive Officer.

POLB 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 by third parties under Port supervision.

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.

4. Reporting

Monitoring reports shall be submitted within 10 days following each weekly sampling period. In reporting, POLB 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 shall contain a separate section titled "Summary of Non-Compliance" which discusses the compliance record and corrective actions taken or planned that may be needed to bring the discharge into full compliance with waste discharge requirements. This section shall clearly list all non-compliance with waste discharge requirements, as well as all excursions of effluent limitations.

Each monitoring report must affirm in writing that:

All analyses were conducted at a laboratory certified for such analyses by the Department of Health Services 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.

5. General Provisions for Reporting

For every item where the requirements are not met, POLB 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 certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted.

Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of a fine and imprisonment for knowing violations.

Executed on the _____ day of _____, 20____,
at _____.

(Signature)


(Title)"

Monitoring and Reporting Program No. 10450
Port of Long Beach
Five-Year Maintenance Dredging

Order No. R4-2018-0173

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:


DEBORAH J. SMITH
Executive Officer

Date: December 13, 2018