

Alamitos Bay Entrance Channel Dredging & Peninsula Nourishment

City Council Meeting
August 11, 2026



Alamitos Bay Entrance Channel Dredging



Project Location

- The Project is located within the Alamitos Bay Entrance Channel and along Peninsula Beach between 61st Place and 72nd Place



Location Map of Alamitos Bay Entrance Channel Dredging

Alamitos Bay Entrance Channel Dredging



Background and Project Need

- The Alamitos Bay Entrance Channel provides recreational and commercial vessels access to the City's marinas, boating facilities, and waterfront destinations, including Marine Stadium, Spinnaker Bay, Davies Launch Ramp, Naples Island, and the Alamitos Bay Marina.
- Over time, natural coastal processes deposit sand and sediment within the channel, creating shallow areas (shoals) that may pose impediments to navigation during lower tides.
- The maintenance dredging work will restore authorized dredge depths to -20 ft MLLW to reduce safety risks and prevent vessel grounding



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Background – Regulatory Considerations

- Maintenance dredging activities create dredge spoils which must be relocated or disposed
- Sediment management guidance issued by the Southern California Dredged Material Management Team (SC-DMMT), comprised of State and Federal agencies prioritize the beneficial reuse of suitable dredge materials to support local habitat and restore shorelines instead of offshore and landfill disposal
- The material dredged from the Alamitos Bay Entrance Channel will be locally retained and beneficially reused to nourish Peninsula Beach to achieve a multi-benefit project



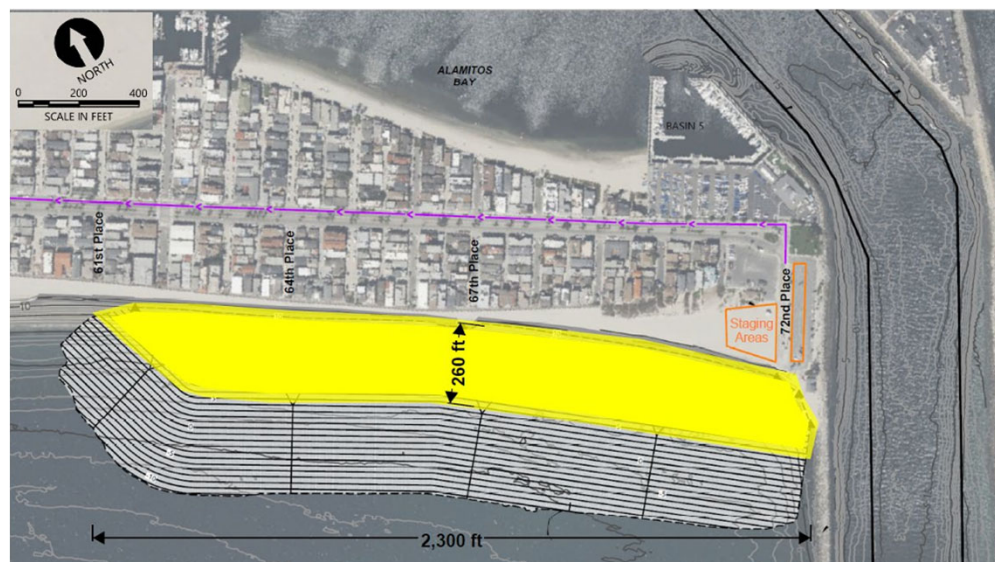
Aerial View of Alamitos Bay Entrance Channel

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Beneficial Reuse of Dredge Sediments at Peninsula Beach

- The SC-DMMT reviewed all proposed plans, sediment chemistry, and sediment composition and confirmed dredged materials are suitable for beneficial use as beach nourishment at Peninsula Beach.
- The nourishment activities will place sand in the nourishment zone widening areas by more than 250 ft improving public beach access and recreational opportunities
- The gradual slopes and wider sandy beach will shift the active wave zone further offshore, which will improve coastal resilience



Nourishment area at Peninsula Beach

Alamitos Bay Entrance Channel Dredging



Construction Activities

- Perform hydraulic or mechanical dredging of up to 415,000 cubic yards from the sea floor from an offshore barge
- Equipment will perform dredging to authorized depths of -20 ft MLLW plus 2 ft of allowable over dredge at the sea floor
- Dredged material will be transported from the waterside and placed on land for minor dewatering, and pumped through temporary piping to the nourishment areas
- Mechanical, land-based equipment such as excavators and front loaders, will spread newly placed sediment material beginning at the jetty and progressing west to expand the sandy beach area
- Activities such as offshore dredging and pumping is expected to last up to 24 hours/day, 7 days/week and beach nourishment is expected to last up to 12 hours/day-7 days/week



Nourishment area at Peninsula Beach

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Prior Bid Effort

- In 2025, the City advertised Bids for the Entrance Channel Dredging project (R-7246). Bids came in at \$13M to \$14M and no contract was awarded, prompting the City to update project specifications in an effort to reduce costs.
- Changes were incorporated in the specifications to employ longer work hours to reduce cost. The project was re-advertised for bid in 2026 (R-7291) and received higher bid participation and significantly reduced bid amounts.
- Although Council is approving today, funding isn't approved until the budget is released. We recommend moving forward to get this protection in place as soon as possible, so that the team does not lose the bid.

Contract Award & Funding Summary



SUMMARY OF PROJECT COSTS	USES
Award of Construction Bid and Contingency	\$9,272,772
Project Delivery Costs (Design/Engineering, Project Management-Construction Management, Inspections, Labor Compliance, Regulatory Permitting, etc.)	\$2,216,897
Total Project Costs Project	\$11,489,669

SUMMARY OF FUNDING	SOURCES
Marina Operating Funds	\$389,669
Marina Capital and Tidelands Funds	\$8,600,000
FY27 Proposed Marina Capital	\$2,500,000
Budget/Funding	\$11,489,669

Project Schedule



Major Activities	Target Dates
City Council Action	August 2026
Contracting	Summer/Fall 2026
Pre-Construction Services and Regulatory Compliance	Summer/Fall 2026
Mobilization/Construction Start	Fall 2026
Demobilization/Completion	Winter (early) 2027

Thank you!



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