



City of Newport Beach  
Public Works Department, Harbor Resources Division

## Dredging, Transport, and Discharge Operations Plan Beach Replenishment ONLY

Corps File No. SPL-2013-00020-SME  
Coastal Commission CDP 5-14-0200 and CC-0002-15  
Clean Water Act Section 401 Certification No. 302014-03

This plan is intended to address Special Condition 7 of the Department of the Army Regional General Permit 54 and Special Condition 4 of the Coastal Development Permit No. 5-14-0200 and Federal Consistency Certification No. CC-0002-15. Attach additional sheets if required for complete responses.

### GENERAL PROJECT INFORMATION

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**Project number**

**Project location**

**Applicant name**

**Authorized agent/contractor name**

**Additional contractors (if any)**

## CONTRACTOR REPRESENTATIVES CONTACT INFORMATION

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Title	Name	Address	Phone number
Project Manager			
Dredging Operations Inspector			
Disposal Operations Inspector			
Tugboat Captain			
Dredge Vessel Captain			

## EQUIPMENT LIST

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The following vessels and dredging equipment will be used during dredging, transport, and discharge operations:

Vessel/equipment name	Type	Size	Load level	Scow capacity

See Attachment A for equipment specifications, including acceptable operating sea conditions for each hopper dredge or disposal barge or scow to ensure compliance with special conditions.

No maintenance, storage, or fueling of heavy tracked equipment or vehicles shall occur within 500 feet of the high tide line of waters of the United States.

# EQUIPMENT POSITIONING AND VERIFICATION PLAN

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Vertical and horizontal positioning will be accomplished using the following Control Points:

**Vertical datum**

**Horizontal datum**

**Plane and Grid coordinates based on:**

**Tidal control/monitoring:**

**Tidal datum**

**Tidal gauge locations**

The following electronic positioning systems or navigation equipment will be used during dredging, transport, and discharge operations:

Equipment	Position control	Vertical control	Tidal control	Azimuth control	Software/hardware

To ensure navigational safety, the applicant shall provide appropriate notifications to the U.S. Coast Guard and local mariners at least 15 calendar days prior to commencing work.

# DREDGING OPERATIONS PLAN

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Anticipated volume (cubic yards) to be dredged, including design and overdredge volumes

Dredge site latitude/longitude coordinates (center of dredge footprint)

Dredge footprint area (in square feet)

Dredge depth (feet)

Overdredge (feet)

Total depth (feet)

Dredge method (e.g., hydraulic, clamshell)

Will water quality monitoring be required?  Yes  No

Project start-up and dredging sequence/schedule

**Dredging design/layout**

See Attachment C for dredging design.

**Method of verifying utility locations**

**DREDGED MATERIAL CHARACTERIZATION**

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**Prior sediment characterization**

In July 2013, a dredged material evaluation was performed in accordance with an approved Sampling and Analysis Plan to evaluate suitability for disposal alternatives (Anchor QEA 2013). Sediment from resulting authorized areas within the RGP 54 boundary that meet the grain size criteria (at least 75% sand) are suitable for discharge onto beach sites within 1,000 feet of dredging operation sites, unless otherwise approved by the Corps Regulatory Division. No use of sediments from areas identified as containing elevated mercury levels are authorized for beach nourishment unless individual stations were to be retested and found by the Corps Regulatory Division to be suitable for beach nourishment.

**Was additional sediment characterization required based on the location?**    Yes    No

- If yes, attach results and proof of U.S. Environmental Protection Agency and U.S. Army Corps of Engineers approval in Attachment D.

**Physical characteristic (grain size) testing**

Prior to each dredging episode at each individual dredging location and prior to beach replenishment at each replenishment location, the permittee shall sample the material to be dredged and any beach-receiver location for the purpose of determining the physical characteristics of the material. Testing shall be performed consistent with procedures defined in "Procedures for Handling and Chemical Analysis of Sediment and Water Samples" by Russell H. Plumb (1981), Corps Technical Report EPA/CE-81-1, pages 3-28 to 3-47.

The grain size test shall be conducted on a composite of at least one core per 0.25-acre area to be dredged and/or at least one core per site for each project, as well as at least one core per

beach-receiver location. Note that if multiple adjacent properties are applying under a single application, the limitations for a single project will apply. The core depth shall be equivalent to the proposed dredging depth plus any overdredging. Grain size data shall be reported to the nearest 1% for sand, silt, and clay, consistent with procedures defined in "Procedures for Handling and Chemical Analysis of Sediment and Water Samples," by Russell H. Plumb (1981), Corps Technical Report EPA/CE-81-1, pages 3-28 to 3-47.

Material utilized for beach replenishment shall have a sand content that is either: 1) greater than 80% sand; or 2) at least 75% sand and within 10% of the sand content of the receiver beach. Any material that meets the requirements for beach replenishment and consists of 75% to 80% sand shall only be placed upon submerged beach areas (i.e., below the water line).

See Attachment D for the results of sediment grain size analyses of the proposed dredge and discharge sites.

## **PRE-DREDGE BATHYMETRIC CONDITION SURVEY**

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### **Date of most recent bathymetric condition survey**

Include results in Attachment B.

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### **Date of planned pre-dredging bathymetric condition survey**

Note that the survey must be performed within 30 days of the dredge start date, and results must be submitted to the U.S. Army Corps of Engineers, the City of Newport Beach, and the California Coastal Commission.

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## **TRANSPORT AND DISCHARGE OPERATIONS PLAN**

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### **Beach replenishment schedule**

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**Disposal site latitude/longitude coordinates**

**Square feet of proposed disposal location**

**Is the disposal location located within 1,000 feet of the dredging site?**     Yes     No

**Disposal method/equipment**

**Anticipated volume (cubic yards) to be discharged**

**Previous discharges to the site, including date(s) and volume(s)**

**Transport and discharge procedures for all sediment, including material unsuitable for beach replenishment**

The applicant will establish a safety flag perimeter of the beach nourishment area during disposal activities and monitor the premises to protect the general public from construction hazards and equipment.

Prior to commencement of any activity authorized under RGP 54, the boundaries of any eelgrass to be avoided shall be marked with buoys so that equipment and vessel operators avoid impacting these areas.

Barges and other vessels shall be anchored to avoid encroachment into avoided eelgrass beds. Barges and other vessels shall avoid transit over any eelgrass beds to the maximum extent practicable. Where transit over eelgrass beds is unavoidable, such transit shall only occur during high tides when grounding and potential damage to eelgrass can be avoided.

## **DEBRIS MANAGEMENT PLAN**

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### **Sources and expected types of debris**

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### **Debris separation and retrieval methods**

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## Debris disposal methods

## ATTACHMENT REQUIREMENTS

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### ***Attachment A***

- Equipment specifications

### ***Attachment B***

- Most recent bathymetric condition survey

### ***Attachment C***

- Dredging design

### ***Attachment D***

- Results of any additional sediment characterization that may have been performed and proof of U.S. Environmental Protection Agency and U.S. Army Corps of Engineers approval
- Results of physical characteristic (grain size) testing performed at dredging location and any beach-receiver location