City of Newport Beach
Public Works

Dredging, Transport, and Discharge Operations Plan

Beach Replenishment ONLY

Corps File No. SPL-2013-00020-GS
Coastal Commission CDP 5-19-1296 and CC-0007-21
Clean Water Act Section 401 Certification No. 302019-21

This plan is intended to address Special Condition 7 of the Department of the Army Regional General Permit 54 and Special Condition 5 of the Coastal Development Permit No. 5-19-1296 and Federal Consistency Certification No. CC-0007-21. Attach additional sheets if required for complete responses.

GENERAL PROJECT INFORMATION

Project number

Project location

Applicant name

Authorized agent/contractor name

Additional contractors (if any)

CONTRACTOR REPRESENTATIVES CONTACT INFORMATION

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

EQUIPMENT LIST

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

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

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

Prior sediment characterization
In August 2022 and January 2023, a dredged material evaluation was performed in accordance with an approved Sampling and Analysis Plan to evaluate suitability for disposal alternatives (Anchor QEA 2023). 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, PCBs, or DDTs levels are authorized for beach nourishment unless individual stations were to be retested and found to be suitable for beach nourishment.

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

- If yes, include laboratory results as an attachment

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

Date of most recent bathymetric condition survey
Include results in Attachment B.

Date of planned pre-dredging bathymetric condition survey
Note that the survey must be performed within 30 days of the dredge start date.

TRANSPORT AND DISCHARGE OPERATIONS PLAN

Beach replenishment schedule

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

Sources and expected types of debris

Debris separation and retrieval methods

Debris disposal methods

ATTACHMENT REQUIREMENTS

Attachment A

☐ Equipment specifications

Attachment B

☐ Most recent bathymetric condition survey

Attachment C

☐ Dredging design

Attachment D

☐ Results of any additional sediment characterization

☐ Results of physical characteristic (grain size) testing performed at dredging location and any beach-receiver location