

CALIFORNIA COASTAL COMMISSION

SOUTH CENTRAL COAST AREA
 89 SOUTH CALIFORNIA ST., SUITE 200
 VENTURA, CA 93001
 (805) 585-1800

W19a

Filed: 8/6/18
 180th Day: 2/2/2019
 Staff: W. Horn-V
 Staff Report: 9/27/18
 Hearing Date: 10/10/18

STAFF REPORT: REGULAR CALENDAR

Application No.: 4-18-0390

Applicant: City of Ventura

Agent(s): Richard Parsons

Project Location: Dredging in the Ventura Keys City of Ventura; Beach deposition sites in the cities of Ventura and Oxnard, Ventura County.

Project Description: Implement a Maintenance Dredging Program in four navigation channels in the Ventura Keys, which encompass an area of 32 acres and consist of three channels trending in a general north/south alignment (channels 1,2, and 3) and a larger connecting channel to the south (channel 4) that ties the other three channels together and provides a link to the Ventura Harbor. Approximately 350,000 cubic yards of material may be dredged over the ten year term, not to exceed 100,000 cubic yards in any one year. Material will be deposited by pipeline either: (1) within the surf zone at Cell 1 of the Pierpont Groin Field, (2) within the surf zone at the mouth of the Santa Clara River, and/or (3) the near shore waters at the mouth of the Santa Clara River. The dredging and deposition period will be subject to timing constraints for resource protection.

Staff Recommendation: Approval with conditions

SUMMARY OF STAFF RECOMMENDATION

The Ventura Keys are located in the City of Ventura ([Exhibit 2](#)), south of San Buenaventura State Beach and north of the Santa Clara River. The navigation channels in the Ventura Keys are accessed from the mouth of the Ventura Harbor and are fringed with private recreational boat docks and associated residential development. The sediment accumulation within the Ventura Keys occurs as a result of runoff carried in the Arundell Barranca as well as 26 smaller storm drains located throughout the project area. The proposed maintenance dredging program would maintain the channels at the appropriate depth for boating and recreational uses, and would allow for approximately 350,000 cubic yards of material to be dredged over a ten year project term, not

to exceed 100,000 cubic yards in any one year. Deposition sites include: (1) within the surf zone at Cell 1 of the Pierpont Groin Field, (2) within the surf zone at the mouth of the Santa Clara River, and/or (3) the near shore waters at the mouth of the Santa Clara River.

Section 30233 of the Coastal Act imposes a three-part test on dredging and filling projects: (1) the allowable use test; (2) an alternatives test; and (3) a mitigation test. As discussed in further detail in Section B of this report, the Ventura Keys maintenance dredging with beach disposal at each of the three receiver sites complies with the requirements of Section 30233. While recent testing of the material to be dredged shows that it is physically and chemically suitable for deposition at the receiver sites, it is possible that conditions could change leading up to the first dredging event approved under this permit, or conditions could change between dredging events. Therefore, the Commission finds that **Special Condition Three (3)** is necessary to require testing of the physical and chemical properties of the material to be dredged prior to operations. If the samples meet the required standards the material can be deposited at the designated deposition sites pursuant to **Special Condition Four (4)**. Furthermore, to ensure that dredging operations and deposition are consistent with the standards of other resource agencies, the Commission finds **Special Condition Twelve (13)** is necessary requiring the applicant to submit current evidence that all State and Federal permits for the project have been attained prior to the start of dredging operations.

Dredging will be accomplished by means of hydraulic dredging, with pipeline deposition into designated surf zone areas or alternatively by means of clamshell dredging. While the deposition of dredge spoils as beach nourishment will replenish public beaches and thus increase access, deposition operations have the potential to adversely affect public access. In order to minimize impacts to public access the Commission recommends **Special Condition One (1)** which prohibits the dredging and deposition proposed in this project to occur between Memorial Day in May through Labor Day in September. This timing will avoid peak public beach usage during summer months. Additionally, the Commission recommends **Special Conditions Two, Five, Ten, Eleven and Twelve (2, 5, 10, 11, 12)** relating to the siting, design, timing, staging, agency coordination and practices employed by the applicant during the deposition operations in order to ensure that maximum public access is provided.

In addition, dredging and disposal in and near areas identified as providing habitat for sensitive wildlife species has the potential to adversely impact those species. Several sensitive species are present in the project area including the California brown pelican, steelhead trout, tidewater goby and California grunion. Little or no vegetation is found on most of the beach disposal sites since these are sandy beach locations subject to wave action; however, there is dune habitat present near the project area. **Special Condition Three (3)** as recommended by the Commission will require the applicant to carry out chemical and physical analysis/testing to ensure chemical levels do not exceed safety standards and potentially impact sensitive species, and that sediment types/grain size are appropriate for the chosen deposition sites. In addition, pursuant to **Special Condition Eight (8)** biological monitoring is required before the start of dredging operations, during the dredging operations, and after the operations have been completed to ensure that significant adverse impacts to adjacent habitats and sensitive species are avoided. Specifically, western snowy plovers and California least terns, identified as threatened and endangered species respectively, are known to nest in the area of the project's deposition sites and **Special**

Condition Fourteen (14) requiring surveys and subsequent monitoring reports will ensure that project activities do not impact these sensitive species populations. Lastly, dredging of the sediment in the waterways of the Ventura Keys has the potential to disrupt the marine environment through the dispersal of the invasive algae *Caulerpa taxifolia* or removal and/or disturbance of populations of Eelgrass (*Zostera marina*). Therefore, **Special Conditions Six and Seven (6, 7)** require marine surveys prior to the initiation of dredging operations as well as necessary response measures if either population is encountered.

While the Cities of San Buenaventura and Oxnard have certified local coastal programs, the proposed project will be conducted in areas that are subject to the retained coastal development permit authority of the Coastal Commission. Thus, the applicable standard of review is the Chapter 3 policies of the Coastal Act. The motion and resolution to adopt the staff recommendation of **approval with special conditions** is found on page 5.

TABLE OF CONTENTS

I. MOTION AND RESOLUTION	5
II. STANDARD CONDITIONS.....	5
III. SPECIAL CONDITIONS.....	6
1. Timing and Implementation of Project Operations	6
2. Dredging and Disposal Operation Plan.....	7
3. Sediment Analysis	7
4. Dredge Spoil Compatibility	8
5. Shoreline Monitoring Program	8
6. Eelgrass Survey.....	9
7. Caulerpa Surveys and Monitoring	10
8. Sensitive Species Surveys and Monitoring.....	11
9. Operational Responsibilities	12
10. Operation Staging	12
11. Agency Coordination	13
12. Public Access Program	14
13. Required Approvals	14
14. Snowy Plover and Least Tern Monitoring.....	14
15. Water Quality Monitoring.....	15
16. Assumption of Risk.....	16
17. Project Term.....	16
IV. FINDINGS AND DECLARATIONS	16
A. PROJECT DESCRIPTION AND BACKGROUND.....	16
B. DIKING, FILLING, DREDGING OF OPEN COASTAL WATERS	19
1. Dredge Spoil Compatibility	20
C. COASTAL ACCESS AND RECREATION	23
1. Water Oriented Recreation	24
2. Public Access and Recreation.....	25
D. MARINE RESOURCES AND ENVIRONMENTALLY SENSITIVE HABITAT AREAS	27
1. Marine Organisms.....	28
2. Sensitive Species and Habitats.....	29
3. Eelgrass	39
4. Caulerpa	41
4. Conclusion	42
E. HAZARDS AND SHORELINE PROCESSES	42
F. LOCAL COASTAL PROGRAM.....	43
G. CALIFORNIA ENVIRONMENTAL QUALITY ACT	43

APPENDICES

Appendix A. [Substantive File Documents](#)

EXHIBITS

[Exhibit 1. Location Map](#)

[Exhibit 2 Aerial Overview](#)

[Exhibit 3 Project Plans](#)

[Exhibit 4 RWQCB Monitoring and Reporting Program](#)

I. MOTION AND RESOLUTION

The staff recommends that the Commission adopt the following resolution:

MOTION: *I move that the Commission **approve** Coastal Development Permit No. 4-18-0390 pursuant to the staff recommendation.*

STAFF RECOMMENDATION OF APPROVAL:

Staff recommends a **YES** vote. Passage of this motion will result in approval of the permit as conditioned and adoption of the following resolution and findings. The motion passes only by affirmative vote of a majority of the Commissioners present.

RESOLUTION TO APPROVE THE PERMIT:

The Commission hereby approves a coastal development permit for the proposed development and adopts the findings set forth below on grounds that the development as conditioned will be in conformity with the policies of Chapter 3 of the Coastal Act and will not prejudice the ability of the local government having jurisdiction over the area to prepare a Local Coastal Program conforming to the provisions of Chapter 3. Approval of the permit complies with the California Environmental Quality Act because either 1) feasible mitigation measures and/or alternatives have been incorporated to substantially lessen any significant adverse effects of the development on the environment, or 2) there are no further feasible mitigation measures or alternatives that would substantially lessen any significant adverse impacts of the development on the environment.

II. STANDARD CONDITIONS

- 1. Notice of Receipt and Acknowledgment.** The permit is not valid and development shall not commence until a copy of the permit, signed by the permittee or authorized agent, acknowledging receipt of the permit and acceptance of the terms and conditions, is returned to the Commission office.
- 2. Expiration.** If development has not commenced, the permit will expire two years from the date on which the Commission voted on the application. Development shall be pursued in

a diligent manner and completed in a reasonable period of time. Application for extension of the permit must be made prior to the expiration date.

3. **Interpretation.** Any questions of intent or interpretation of any condition will be resolved by the Executive Director or the Commission.
4. **Assignment.** The permit may be assigned to any qualified person, provided assignee files with the Commission an affidavit accepting all terms and conditions of the permit.
5. **Terms and Conditions Run with the Land.** These terms and conditions shall be perpetual, and it is the intention of the Commission and the permittee to bind all future owners and possessors of the subject property to the terms and conditions.

III. SPECIAL CONDITIONS

1. Timing and Implementation of Project Operations

All dredging operations, including operation of equipment, spoil disposal, placement or removal of disposal pipelines, or other construction, maintenance, material removal, or activities involving mechanized equipment shall be prohibited:

- A. Within 100 yards of, and on the entire beach seaward of, the Least Tern nesting areas, identified annually by the Department of Fish and Wildlife, or the State Park Resource Protection Area from March 15 through August 31 to avoid disturbance during the breeding season of the Least Tern.
- B. On any part of the beach and shorefront in the project area from the Friday prior to Memorial Day in May through Labor Day in September to avoid impact on public recreational use of the beach.
- C. On any part of the beach in those portions of the project area where California grunion (of any life stage, including eggs) are present during any run periods and corresponding egg incubation periods. In the event that sediment needs to be placed below the high tide line from the date of the first predicted grunion run, as listed by the California Department of Fish and Wildlife, to August 31, the applicant shall submit evidence, for the review and approval of the Executive Director, that surveys for grunion have been conducted pursuant to Special Condition Eight (8) at the project site and that no grunion were found. No work shall occur below the high tide line between the date of the first predicted grunion run, as listed by the California Department of Fish and Wildlife, and August 31 without the authorization of the Executive Director.
- D. Within federally designated critical habitat of the Western Snowy Plover from March 1 through September 30 to avoid adverse effects to nesting Western Snowy Plovers, or in any other area where snowy plovers may be, if they are exhibiting nesting or reproductive activity, as documented by the surveys conducted pursuant to Special Condition Seven (7) and Special Condition Thirteen (13).

2. Dredging and Disposal Operation Plan

The applicant shall submit a dredging and disposal operation plan within thirty (30) days, but no later than two (2) weeks, prior to each dredging operation for the review and approval by the Executive Director. The plan shall include at a minimum:

- A. Site map showing the area of the Ventura Keys to be dredged and receiver site(s). Nearshore disposal areas shall be plotted in latitude and longitude coordinates. All maps shall be drawn to scale.
- B. Detailed description of the dredging operation, including the method of dredging and disposal, volume of dredged spoils to be removed, and volume to be deposited at the receiver site(s).
- C. Description (e.g., size, type, capacity) of equipment to be used, including bin capacity when hopper and/or clamshell dredging is utilized.
- D. Schedule of the dredging operation's proposed beginning and ending dates.
- E. Results of a grain size and chemical analysis, pursuant to Special Condition Three (3).
- F. Evidence that local agencies were apprised of the availability of sand resources that meet beach replenishment standards, pursuant to Special Condition Ten (10), and the target destination for the current year's dredging operation.
- G. Explanation of receiver site(s) priority.
- H. All relevant monitoring reports required pursuant to this permit.
- I. Debris management plan to prevent disposal of solid debris at receiver site(s). The debris management plan shall include: sources and expected types of debris, debris separation and retrieval methods, and debris disposal methods.

3. Sediment Analysis

Physical (grain size) analysis shall be conducted of a representative sample of the sediments to be dredged from the Ventura Keys channels, consistent with the Environmental Protection Agency (EPA) and California Regional Water Quality Control Board (RWQCB) criteria for beach replenishment. Testing of sediment shall be conducted within thirty (30) days, but no later than two (2) weeks before the initiation of dredging operations. If sampling reveals that any sediment does not meet beach replenishment standards, the applicant shall notify the Executive Director and local resource agencies. Project activities shall begin only upon written approval of the Executive Director.

Chemical and physical analysis shall be conducted of a representative sample of the sediments to be dredged from Ventura Keys channels, consistent with the requirements of the joint EPA/Corps *Evaluation of Dredged Material Proposed for Discharge in Waters of the U.S. -- Testing Manual* and most recent RWQCB waste discharge requirements. Re-testing of the Ventura Keys sediment shall be conducted a minimum of three years from the date of the previous sediment sampling survey, where samples continue to meet EPA and RWQCB guidelines. If the EPA or RWQCB determine that the sediment exceeds any contaminant threshold levels, sampling shall commence at least six (6) weeks prior to any dredging event for

all subsequent years. The results and analysis must be submitted for the review and approval of the Executive Director, at least two (2) weeks prior to any dredging operation.

In the event of a spill, release, or similar event that has the potential to result in contamination of sediments in the project area, the applicant shall submit a written report of the event to the Executive Director within 30 days of its occurrence, and shall commence sampling at least six (6) weeks prior to any subsequent dredging event. Sampling results and analysis must be submitted for the review and approval of the Executive Director, at least two (2) weeks prior to any dredging operation.

4. Dredge Spoil Compatibility

- A. The dredged material shall meet all applicable federal and state beach nourishment or dredge spoil discharge requirements and comply with the grain size requirements for the locations as cited below.
- B. Dredged material for beach replenishment may be disposed of at Cell 1 of the Pierpont Bay Groin Field provided that the material is composed of sediment that contains 65% or more coarse-grained material (retained on a Standard U.S. Sieve Size No. 200) and the dredged material does not contain elevated concentrations of trace metals or trace organics.
- C. Dredged material may be disposed of in the surf zone or nearshore waters no closer than 300 feet from the mouth of the Santa Clara River provided that the river is flowing at a rate of 100 cubic feet per second as measured at the Victoria Avenue Bridge.
- D. Dredge material that does not meet the physical or chemical standards for beach replenishment or spoil discharge shall not be discharged at any of the deposition sites, except as specified above. At such time, the applicant shall identify an alternate location suitable to accept contaminated sediment. Should the dumpsite be located in the Coastal Zone, a coastal development permit shall be required.

5. Shoreline Monitoring Program

- A. The applicant shall conduct an annual shoreline monitoring program to document shoreline changes in the project vicinity. Documentation shall include but not be limited to:
 - 1) An indication of beach width and sand volume changes to the beaches within the area profiles. This shoreline analysis shall include the deposition sites along McGrath State Beach and Pierpont Beach. The applicant shall utilize aerial photographs, to the extent feasible, to prepare the summary of beach width and sand volume changes.
 - 2) Data detailing the annual quantity, location, and date of dredged material placement.
 - 3) An annual summary of conditions at the Santa Clara River estuary mouth.
- B. The monitoring information shall be submitted to the Executive Director by July 1 of each year as well as to other public and federal, state, and local entities who wish to obtain such information. At a minimum, the annual reports shall be furnished to the

Executive Director of the Commission, the Cities of Ventura and Oxnard, the Army Corps of Engineers (Los Angeles District) and BEACON.

6. Eelgrass Survey

A. Pre-Construction Eelgrass Survey:

- 1) A valid pre-construction eelgrass (*Zostera marina*) survey shall be completed during the period of active growth of eelgrass (typically March through October). The pre-construction survey shall be completed prior to commencement or re-commencement of any development authorized under this coastal development permit. The applicant shall undertake a survey of the project area and a buffer area at least 35 feet beyond the project area to determine the presence of eelgrass. The survey shall be valid until the next period of active growth.
- 2) The survey shall be prepared in full compliance with the “Southern California Eelgrass Mitigation Policy” dated October 2014 (except as modified by this special condition) adopted by the National Marine Fisheries Service (see http://www.westcoast.fisheries.noaa.gov/habitat/habitat_types/seagrass_info/california_eelgrass.html) and shall be prepared in consultation with the California Department of Fish and Wildlife.
- 3) The applicant shall submit the eelgrass survey for the review and approval of the Executive Director within five (5) business days of completion of each eelgrass survey and in any event no later than fifteen (15) business days prior to commencement of any development.
- 4) If the eelgrass survey identifies any eelgrass within the project area which would be impacted by the proposed project, the development shall require an amendment to this permit from the Coastal Commission or a new coastal development permit in order to address and allow eelgrass mitigation measures, as described in subsection B, below. However, no amendment or new permit is needed if the Executive Director determines that no amendment or new permit is required.

B. Post-Construction Eelgrass Survey:

- 1) If any eelgrass is identified in the project area by the survey required in subsection A of this condition above, within one month after the conclusion of construction, the applicant shall survey the project site to determine if any eelgrass was adversely impacted.
- 2) The survey shall be prepared in full compliance with the “Southern California Eelgrass Mitigation Policy” dated October 2014 (except as modified by this special condition) adopted by the National Marine Fisheries Service (see http://www.westcoast.fisheries.noaa.gov/habitat/habitat_types/seagrass_info/california_eelgrass.html) and shall be prepared in consultation with the California Department of Fish and Wildlife.
- 3) The applicant shall submit the post-construction eelgrass survey for the review and approval of the Executive Director within thirty (30) days after completion of the survey.

- 4) If any eelgrass has been impacted, the applicant shall replace the impacted eelgrass at a minimum 1.38:1 ratio on-site, or at another location, in accordance with the Southern California Eelgrass Mitigation Policy (SCEMP). All impacts to eelgrass habitat shall be mitigated at a minimum ratio of 1.38:1 (mitigation:impact).
- 5) The exceptions to the required 1.38:1 mitigation ratio found within SCEMP shall not apply. Implementation of mitigation shall require an amendment to this permit or a new coastal development permit unless the Executive Director determines that no amendment or new permit is required

7. Caulerpa Surveys and Monitoring

- A. Not earlier than 90 days nor later than 30 days prior to commencement or re-commencement of any development authorized under this coastal development permit, the applicant shall undertake a survey of the project area and a buffer area at least 35 feet beyond the project area to determine the presence of the invasive alga *Caulerpa taxifolia*. The survey shall include a visual examination of the substrate and inspection of dredging equipment.
- B. The survey protocol shall be prepared in consultation with the Regional Water Quality Control Board, the California Department of Fish and Wildlife, and the National Marine Fisheries Service.
- C. Within two (2) weeks of completion of the survey, the applicant shall submit the results of the survey:
 - 1) for the review and approval of the Executive Director; and
 - 2) to the Surveillance Subcommittee of the Southern California Caulerpa Action Team (SCCAT). The SCCAT Surveillance Subcommittee may be contacted through William Paznokas, California Department of Fish & Wildlife (858-467-4218), William.Paznokas@wildlife.ca.gov or Bryant Chesney, National Marine Fisheries Service (562-980-4037, Bryant.Chesney@noaa.gov), or their successors.
- D. Unless the Executive Director otherwise determines, if the survey identifies any *Caulerpa taxifolia* within the project area, the applicant shall submit to the Commission an application for a new coastal development permit or an amendment to this permit authorizing measures formulated to avoid, minimize and otherwise mitigate impacts that the proposed development might have resulting from the dispersal of *Caulerpa taxifolia* in the project area. The applicant shall: 1) refrain from commencement of the project until a valid permit or amendment is obtained, and 2) upon authorization of the permit or amendment, implement the approved mitigation measures in the manner and within the timeframe(s) specified in the approval.

8. Sensitive Species Surveys and Monitoring

- A. The applicant shall retain the services of a qualified biologist or environmental resources specialist with appropriate qualifications acceptable to the Executive Director, prior to commencement of dredging or discharge activities. The environmental resource specialist shall conduct a survey of the project site, to determine presence and behavior of sensitive species, one day prior to commencement of installation or removal of the discharge pipeline, or any grading activities on the beach. In the event that any sensitive wildlife species (including but not limited to California least tern, western snowy plover, California grunion) exhibit reproductive or nesting behavior, the environmental specialist shall require the applicant to cease work, and shall immediately notify the Executive Director and local resource agencies. Project activities shall resume only upon written approval of the Executive Director.
- B. The applicant shall retain the services of a qualified biologist or environmental resources specialist with appropriate qualifications acceptable to the Executive Director, prior to any dredging or discharge activities from the date of the first predicted grunion run, as listed by the California Department of Fish and Wildlife, through August. The environmental resource specialist shall conduct a survey of the project site, to determine presence of California grunion during the seasonally predicted run period and egg incubation period, as identified by the California Department of Fish and Wildlife. If any grunion spawning activity and/or if grunion are present in or adjacent to (within 100 yards of) the project site in any life stage, no construction, maintenance, or any grading and grooming activities on the beach or other project activities shall occur until the next predicted run in which no grunion are observed. Surveys shall be conducted for all seasonally predicted run periods in which material is proposed to be placed at any of the above sites. If material is in the process of being placed, the material shall be rough graded and returned to contours that will enhance the habitat for grunion prior to the run period. Furthermore, placement activities shall cease in order to determine whether grunion are using the beach during the following run period. The resource specialist shall provide inspection reports after each grunion run observed and shall immediately provide copies of such reports to the Executive Director and to the California Department of Fish and Wildlife.
- C. The applicant shall immediately submit documentation, prepared by the biologist or environmental specialist, which indicates the results of each pre-construction survey, including if any sensitive species were observed and associated behaviors or activities. Location of any nests observed shall be mapped.
- D. The environmental specialist shall be present during the installation and removal of the discharge pipeline, and during grading of the beach. The environmental resource specialist shall require the applicant to cease work should any breach in permit compliance occur or if any unforeseen sensitive habitat issues arise. The biological monitor(s) shall immediately notify the Executive Director if activities outside of the scope of Coastal Development Permit 4-18-0390 occur or if habitat is removed or impacted beyond the scope of the work indicated in Coastal Development Permit 4-18-0390. If significant impacts or damage occur to sensitive wildlife species, the applicant

shall be required to submit a revised, or supplemental program to adequately mitigate such impacts. The revised, or supplemental, program shall be processed as an amendment to this coastal development permit.

9. Operational Responsibilities

It shall be the applicant's responsibility to assure that the following occurs concurrent with, and after completion of, all project operations:

- A. At the completion of each year's dredging and deposition, but prior to the timing restrictions specified in Special Condition One (1) above, the sand deposited on the beach shall be rough graded to natural beach contours to restore the dynamic shoreline habitat and to facilitate recreational use.
- B. All pipeline operations and vehicle traffic shall be limited to the 50-foot wide corridor along the proposed pipeline route.
- C. All vehicle traffic associated with placement of the pipeline, including the movement of sections of the pipeline, must be preceded by a designated individual walking ahead of the equipment being moved to ensure that no snowy plovers or other sensitive species are at risk from vehicle or equipment movement.
- D. No pipes or any other equipment shall be stored on the beach consistent with timing constraints identified pursuant to Special Condition One (1).
- E. The disposal pipeline, access routes, and equipment corridor shall not cross or disturb sand dunes and shall minimize crossings or disturbance of the wrack zone. Wrack shall be separated and retained, to the maximum extent feasible, in areas where discharge operations will result in the loss or disturbance of wrack. Wrack shall be moved to the side during discharge operations, pipeline placement, and other project activities, and replaced in its original location/configuration, to the maximum extent feasible, at the completion of project operations where possible.
- F. At no time shall disposal or associated activities interfere with the breaching or retention of flow within the Santa Clara River estuary in such a way as to cause or threaten flooding on adjacent lands.

10. Operation Staging

- A. At least two (2) weeks prior to commencement of any dredging operation, the applicant shall submit to the Executive Director for review and approval, final staging plans that include the following:
 - 1) A map of the location of the project construction headquarter(s).
 - 2) Site plans for all construction staging areas and access routes, including stockpile areas for pipe and the access corridor necessary for placement of the pipeline.
 - 3) Special staging and parking needs for heavy equipment.
- B. The plan shall be consistent with the following criteria:

- 1) Staging areas shall be used only during active construction operations and will not be used to store materials or equipment between operations.
- 2) The applicant shall not store any construction materials or waste where it will be or could potentially be subject to wave erosion and dispersion. In addition, no machinery shall be placed, stored or otherwise located in the intertidal zone at any time, except for the minimum necessary to implement the project.
- 3) Construction equipment shall not be cleaned on the beach or in the beach parking lots.
- 4) Construction debris and sediment shall be properly contained and secured on site with BMPs to prevent the unintended transport of sediment and other debris into coastal waters by wind, rain or tracking.
- 5) Construction debris and sediment shall be removed from construction areas as necessary to prevent the accumulation of sediment and other debris which may be discharged into coastal waters. Any and all debris resulting from construction activities shall be removed from the project site within 24 hours. Debris shall be disposed at a debris disposal site outside of the coastal zone or at a location within the coastal zone authorized to receive such material.
- 6) The applicant shall be responsible for removing all unsuitable material or debris within the area of placement should the material be found to be unsuitable for any reason, at any time, when unsuitable material/debris can reasonably be associated with the placement material. Debris shall be disposed at a debris disposal site outside of the coastal zone or at a location within the coastal zone authorized to receive such material.
- 7) Stockpiled materials shall be located as far from stream areas on the designated site(s) as feasible and in no event shall materials be stockpiled less than 30 ft. in distance from the top edge of a stream bank.
- 8) Temporary erosion control measures, such as sand bag barriers, silt fencing; and/or swales, shall be implemented for all stockpiled material. These temporary erosion control measures shall be required at the site(s) prior to or concurrent with the initial grading operations and shall be monitored and maintained until all stockpiled fill has been removed from the project site. Successful implementation of erosion control measures will ensure that the material is completely stabilized and held on site.

The applicant shall undertake the development in accordance with the approved plans. Any proposed changes to the approved plans shall be reported to the Executive Director. No change to the program shall occur without a Commission-approved amendment to the permit unless the Executive Director determines that no such amendment is required.

11. Agency Coordination

No less than sixty (60) days prior to commencement of each dredging operation, the applicant shall provide notice to local agencies and any other known interested parties of the volume and

quality of shoal material. Those parties that shall receive notice include, but are not limited to, the cities of Ventura and Oxnard, California Parks and Recreation, Army Corp of Engineers, Regional Water Quality Board, BEACON, and the Executive Director of the Coastal Commission. If any party requests to use the dredged material which meets beach replenishment requirements, and if the Executive Director determines that the proposed beach nourishment will not have adverse impacts on coastal resources and that these materials are not more appropriate at alternative disposal sites, the applicant shall make the dredged material available to that party, for transport and use for beach nourishment, at that party's expense.

12. Public Access Program

Prior to issuance of this coastal development permit, the applicant shall submit, for review and approval of the Executive Director, a report which describes the methods (including signs, fencing, posting of security guards, etc.) by which safe public access to or around the beach deposition sites and/or staging areas shall be maintained during dredging and discharge operations.

13. Required Approvals

Prior to commencement of any sediment management activities authorized by this coastal development permit, the applicant shall provide evidence to the Executive Director of receipt of all necessary State and Federal permits including the U.S. Army Corps of Engineers, the California State Lands Commission, and the California Regional Water Quality Control Board.

14. Snowy Plover and Least Tern Monitoring

A biologist(s) or environmental specialist(s) with appropriate qualifications acceptable to the Executive Director shall conduct a survey(s) of western snowy plover and California least tern in all shorefront portions of the project area, from the northernmost point at the Pierpont Groinfeld deposition site to the southern terminus of McGrath State Beach property. Survey(s) shall commence at least two (2) weeks prior to any dredging activities and extend at least two (2) weeks after the final dredging activity is completed. Prior to the commencement of the survey(s), the biologist(s) or environmental specialist(s) shall submit a survey methodology report for the review and approval of the Executive Director. The report shall include, at a minimum, an illustration of monitoring sites/transects, survey dates and time, names of surveyors, and survey protocol. The survey(s) shall be conducted a minimum of twice weekly and shall be designed to assess the abundance, distribution, behavior, and any disturbances to snowy plovers and least terns foraging, roosting, or nesting in the survey area. If any snowy plover or least tern exhibits reproductive or nesting behavior, then the environmental specialist shall require the applicant to cease work, and shall immediately notify the Executive Director and local resource agencies. Project activities shall resume only upon written approval of the Executive Director.

The applicant shall submit a western snowy plover and California least tern monitoring report to the Executive Director for review and approval by July 1 of each year. The monitoring report shall be prepared by a qualified biologist and shall at a minimum include, but not be limited to, the following components: 1) population and trend analysis; 2) analysis and illustration of population density and spatial distribution before, during, and after each dredging operation; 3) documentation of all known incidents of snowy plover and least tern disturbance (including

incidents resulting in mortality, citing the probable cause of mortality) including dates, times, location, degree of plover disturbance (e.g., plover behavior such as moving, running, or flying from a disturbance or other actions such as elevating wings), source of disturbance (e.g., pedestrians, vehicles, dogs on or off leash, equestrians, predation, spills, dredging operations and support activities including pipeline installation and removal and any beach grading or grooming activities, or vandalism of unknown origin), length of time of disturbance, level of disturbance (i.e., how many plovers made to fly or move and how far plovers were displaced), and the approximate distance between the source and plovers which resulted in the disturbance; 4) analysis of any other activities with the potential to impact the species' population in the project area, such as use patterns (e.g., public recreation), weather patterns, and habitat changes; and 5) conclusions regarding the impact of the dredging operations on the snowy plover and least tern populations and habitat.

If the Executive Director determines that adverse impacts have occurred to the species' population or habitat as a result of the dredging operations, the Executive Director shall provide written notice to the applicant of such determination. The applicant shall cease work (if work is underway) and shall notify local resource agencies in a timely manner. The applicant shall be required to submit a revised or supplemental program to adequately mitigate such impacts. The revised, or supplemental, program shall be processed as an amendment to this coastal development permit. Project activities shall resume only upon written approval of the Executive Director.

15. Water Quality Monitoring

The applicant shall conduct a water quality monitoring program that will analyze potential adverse impacts on the near-shore and offshore marine environment resulting from disposal of dredged materials into the intertidal zone. The monitoring program will be conducted each time dredged materials are deposited into or graded near the intertidal zone and will contain the following components:

- A. The applicant shall retain the services of a qualified biologist(s) or environmental resources specialist(s) with appropriate qualifications acceptable to the Executive Director. The environmental resource specialist shall monitor and document the turbidity of coastal waters during all project construction activities consistent with the California Regional Water Quality Control Board (RWQCB) Monitoring and Reporting Program for this project. The applicant shall submit, for the review of the Executive Director, all weekly monitoring reports that indicate non-compliance with the waste discharge requirements outlined in the Monitoring and Reporting Program. The weekly reports shall be submitted within 10 days of completion of each weekly sampling period for which non-compliance is found. In addition, the applicant shall submit, for the review of the Executive Director, a final report, summarizing the weekly monitoring, within 30 days of the completion of each dredging operation.
- B. Should the water quality monitoring program yield results that indicate sediment disposal into the intertidal zone causes a significant adverse impact on water quality or the marine environment the applicant is required to submit, for review and approval by the Executive Director, a mitigation plan exploring feasible alternatives, mitigation

measures, and/or alternative disposal locations for sediment disposal in the intertidal zone prior to any future deposition activities in the intertidal zone. Should the mitigation plan identify mitigation measures and/or project alternatives to minimize water quality impacts which results in a substantial change in the proposed development approved by the Commission, an amendment to the permit or a new coastal permit shall be required

16. Assumption of Risk

By acceptance of Coastal Development Permit 4-18-0390, the applicant acknowledges and agrees (i) that the project site may be subject to hazards from erosion and flooding; (ii) to assume the risks to the applicant and the property that is the subject of this permit of injury and damage from such hazards in connection with this permitted development; (iii) to unconditionally waive any claim of damage or liability against the Commission, its officers, agents, and employees for injury or damage from such hazards; and (iv) to indemnify and hold harmless the Commission, its officers, agents, and employees with respect to the Commission's approval of the project against any and all liability, claims, demands, damages, costs (including costs and fees incurred in defense of such claims), expenses, and amounts paid in settlement arising from any injury or damage due to such hazards.

17. Project Term

All development approved pursuant to this coastal development permit shall be completed by October 10, 2028.

IV. FINDINGS AND DECLARATIONS

The Commission hereby finds and declares:

A. PROJECT DESCRIPTION AND BACKGROUND

The applicant proposes to implement a Maintenance Dredging Program in four navigation channels in the Ventura Keys for a period of ten years. The Ventura Keys are within the City of Ventura, immediately north of the Ventura Harbor ([Exhibits 1 and 2](#)). The Ventura Keys waterways encompass an area of 32 acres and consist of three channels trending in a general north/south alignment (channels 1, 2, and 3) and a larger connecting channel to the south (channel 4) which ties the other three channels together and provides a link to Ventura Harbor ([Exhibits 1 and 2](#)).

The Ventura Keys waterways were constructed in the early 1960s shortly after the excavation of the Ventura Harbor. The sides of the four channels were developed with retaining walls and rip-rap along the banks for stabilization. Private easements extend from the seaward edge of more than 300 waterfront residential parcels in the Ventura Keys neighborhood and are reserved for private boat docks. These easement areas occupy about half of the water surface of the waterways. Generally, each channel (channels 1, 2, and 3) spans 160 feet from property line to property line, with 45-foot easements on either side of the waterway. This configuration allows for a 70-foot wide public access corridor within the center of the channel.

The 13.5 acres of the channel area proposed for dredging have an existing depth between -8 and -16 feet Mean Lower Low Water (MLLW). Shoaling in the Ventura Keys results from sediments deposited from runoff carried in the Arundell Barranca and 26 smaller storm drains. Dredging of fine-grained materials from the mouth of the Arundel Barranca, as well as other inner and outer harbor areas are regulated by Coastal Development Permit 4-16-0333. Sediment accumulation leads to shallow channel depths, and if uncorrected, would result in difficult navigation conditions. Dredging of channel 4, which connects channels 1, 2, and 3 to the Ventura Harbor, will consist of dredging to a depth of -15 feet. MLLW \pm 2 ft. Presently, this channel contains about 14,000 cubic yards of shoal material and is expected to require dredging two or three times over a ten year period. The work would be accomplished by a private contractor using a 14" to 26" diesel-powered cutterhead hydraulic pipeline (suction) dredge operating on a 24-hour per day basis. Depending on the size of the equipment utilized, the operation could require 10 to 30 days per dredging episode. A portion of the connecting channel in the vicinity of the mouth of the Arundell Barranca may require more frequent dredging requiring the use of a mechanical clamshell type operation (either floating or shore-based). Hydraulic dredging requires the placement of pipeline, up to 3 ft. in diameter, from the dredge in the harbor to the deposition sites. The route of the discharge pipeline is shown in [Exhibit 3](#). Upon completion of each dredging cycle, the pipe will be removed from the beach.

Dredging of Channels 1, 2, and 3 will consist of dredging to a depth of -12 ft. MLLW \pm 2 ft. Presently, these channels contain about 45,000 cubic yards of shoal material and are expected to require dredging one or two times each over a ten year period. The work would be accomplished by a private contractor using a 6" to 16" diesel powered cutterhead hydraulic pipeline dredge operating on a 24-hour per day basis. Depending upon the size of the equipment utilized, the operation could require 30 to 60 days per dredging episode.

Approximately 350,000 cubic yards of material may be dredged over the ten year term, but will not exceed 100,000 cubic yards in any one year. Material will be deposited either: (1) within the surf zone at Cell 1 of the Pierpont Groin Field, (2) within surf zone at the mouth of the Santa Clara River, and/or (3) the near shore waters at the mouth of the Santa Clara River. After surf zone disposal, sediment mounds would be rough graded to obtain the desired beach profile. The approximate locations of these sites are shown in Exhibits 1 and 4.

Deposition in surf zone at Cell One (1) of the Pierpont Groin Field

Cell 1 of the Pierpont Groin Field is located in between the two southernmost groins along the beach in the Pierpont Community, roughly from the terminus of Nathan Lane to the terminus of Greenock Lane adjacent to the northern boundary of Marina Park ([Exhibit 3](#)), which is the first cell north of Marina Park. This site, owned by the State Lands Commission and the City of Ventura, is located about ¼ mile upcoast of Ventura Harbor. Dredged material from the Ventura Keys channels would be deposited into the surf zone by means of hydraulic dredging and pipeline deposition. Sand dunes are in the vicinity but not located in the project area. This area is identified as critical habitat for the federal-threatened western snowy plover and is discussed in further detail in Section E, Environmentally Sensitive Resources. This site is currently permitted as a disposal site for dredged materials from the inner and outer harbor areas of Ventura Harbor pursuant to CDP 4-16-0333 (Ventura Port District). This site was also previously permitted as a disposal site for dredged material (from the inner and outer harbor areas) pursuant to CDP 4-83-

257 in 1991 and for dredged material from the Ventura Keys pursuant to CDP 4-97-181 from 1997-2007. The City has an agreement with the Army Corps of Engineers (“ACOE”) to operate and maintain the Pierpont beach area at their own expense. Disposal at this site will be in accordance with this agreement.

Deposition in the surf zone near the mouth of the Santa Clara River.

This site is located approximately 4,500 feet downcoast of Ventura Harbor, near the mouth of the Santa Clara River ([Exhibit 3](#)). Dredged materials from the Ventura Keys would be deposited into the surf zone via hydraulic dredging and pipeline deposition. The dredged material would be deposited below the mean high water line along the 2,500 feet of beach near the mouth of the Santa Clara River with the actual discharge point being at least 300 feet away (north or south) from the location where the river flows into the ocean. There are occasions when high flows in the Santa Clara River make it infeasible to maintain the discharge pipeline across the mouth of the river, in which case the deposition activity would take place to the north of the river mouth. Discharge of material 300 feet of the mouth of the Santa Clara River would occur only when the river flow, as measured in the vicinity of the Victoria Avenue Bridge, is 100 cu. feet per second or greater and the dredged material does not contain elevated concentrations of trace metals or trace organics.

Deposition in the Santa Clara River nearshore waters.

This site is located approximately 4,500 feet downcoast of Ventura Harbor, in the near shore waters near the mouth of the Santa Clara River ([Exhibit 3](#)). Dredged materials from the Ventura Keys would be deposited via hydraulic dredging and pipeline deposition. At times when high flows in the Santa Clara River make it infeasible to maintain the discharge pipeline across the mouth of the river for surf zone deposition, the deposition activity would take place in the nearshore waters to the north of the river mouth. Discharge of material would only occur near the mouth of the Santa Clara River when the river flow, as measured in the vicinity of the Victoria Avenue bridge is 100 cu. feet per second or greater.

Disposal sites in the surf zone near the mouth of the Santa Clara River and in the nearshore waters of Santa Clara River are also permitted as a disposal sites for dredged materials from the inner and outer harbor areas of Ventura Harbor pursuant to CDP 4-16-0333 (Ventura Port District). These sites were also previously permitted as disposal sites for dredged material (from the inner and outer harbor areas) pursuant to CDP 4-83-257 in 1991 and for dredged material from the Ventura Keys pursuant to CDP 4-07-118 from 2008 to 2018, and CDP 4-97-181 from 1997-2007.

Least tern nesting sites have been identified to the north and south of the Santa Clara river channel. In addition, the area is designated as critical habitat for the federal threatened western snowy plover. When deposited to the south of the main river channel, the pipeline corridor crosses the Santa Clara River mouth on the protected, backside of the sand spit at the mouth of the river. The route is placed to avoid the least tern nesting sites. These issues are discussed in further detail in Section D, Environmentally Sensitive Resources. Dredging and deposition would take place in the project area subject to sensitive resources timing restrictions. As with past operations, dredging would typically take place between November and March.

Dredging is usually accomplished on a 24-hour per day, 7 days per week basis, but may only be operated during the daylight hours. Each dredging episode may take 30 to 60 days to complete. Additionally, all the waterways would not be dredged in any one year. In the past, various portions of the Ventura Keys have required dredging on cycles ranging from three to ten years. Dredging pursuant to CDP 4-07-118 never occurred. As such, the most recent maintenance dredging of the Keys occurred pursuant to CDP 4-97-181, was completed in 2005/6, and involved the removal of about 46,000 cubic yards of material from the connecting channel (channel 4) with deposition in the surf zone just to the north of the mouth of the Santa Clara River. From 1997 to 1999, about 240,000 cubic yards of material was removed from all the channel areas within the Ventura Keys with deposition in the surf zone both at the mouth of Santa Clara River and in Cell 1 of the Pierpont Groin Field.

B. DIKING, FILLING, DREDGING OF OPEN COASTAL WATERS

Section 30233 of the Coastal Act states:

- (a) The diking, filling, or dredging of open coastal waters, wetlands, estuaries, and lakes shall be permitted in accordance with other applicable provisions of this division, where there is no feasible less environmentally damaging alternative, and where feasible mitigation measures have been provided to minimize adverse environmental effects, and shall be limited to the following:*
- (1) New or expanded port, energy, and coastal-dependent industrial facilities, including commercial fishing facilities.*
 - (2) Maintaining existing, or restoring previously dredged depths in existing navigational channels, turning basins, vessel berthing and mooring areas, and boat launching ramps.*
- ...
- (b) Dredging and spoils disposal shall be planned and carried out to avoid significant disruption to marine and wildlife habitats and water circulation. Dredge spoils suitable for beach replenishment should be transported for such purposes to appropriate beaches or into suitable longshore current systems.*

Section 30233 of the Coastal Act states that diking, filling, and dredging of coastal waters may be permitted for coastal-dependent industries, and for maintaining or restoring previously dredged depths where there is no feasible less environmentally damaging alternative, and where feasible mitigation measures have been provided to minimize adverse environmental effects. Section 30233 of the Coastal Act also mandates that dredging and disposal operations shall be carried-out to avoid disruption of marine and wildlife habitats, and that suitable dredge sediments shall be deposited for beach replenishment.

The City of Ventura proposes to dredge four navigation channels in the Ventura Keys, which encompass an area of 32 acres and consist of three channels trending in a general north/south alignment (channels 1, 2, and 3) and a larger connecting channel to the south (channel 4) that ties the other three channels together and provides a link to Ventura Harbor. Approximately 350,000 cubic yards of material may be dredged over the ten year term, but will not exceed 100,000 cubic yards in any one year. The dredging and deposition period will run from after Labor Day in September to Memorial Day in May, the following year, subject to timing constraints for resource protection.

As explained above, the Commission has previously authorized similar dredging and disposal operations. Dredging pursuant to CDP 4-07-118 never occurred. As such, the most recent maintenance dredging of the Keys occurred pursuant to CDP 4-97-181, was completed in 2005 and 2006, and involved the removal of about 46,000 cubic yards of material from the connecting channel (channel 4) with deposition in the surf zone just to the north of the mouth of the Santa Clara River. From 1997 to 1999, about 240,000 cubic yards of material was removed from all the channel areas within the Ventura Keys with deposition in the surf zone both at the mouth of Santa Clara River and in Cell 1 of the Pierpont Groin Field. Additionally, the proposed disposal sites in the surf zone near the mouth of the Santa Clara River and in the nearshore waters of Santa Clara River are also permitted as a disposal sites for dredged materials from the inner and outer harbor areas of Ventura Harbor pursuant to CDP 4-16-0333 (Ventura Port District).

Section 30233(a) of the Coastal Act imposes a three-part test on dredging and filling projects (1) the allowable use test; (2) an alternatives test; and (3) a mitigation test. As the Commission has found in reviewing the dredging cases listed in the previous paragraph, Ventura Keys maintenance dredging with beach disposal at each of the three receiver sites complies with these tests because (1) maintenance dredging of existing channels is an allowable use under Section 30233(a)(2) of the Coastal Act; (2) when the material is suitable for beach disposal, and when habitat and access issues have adequately addressed (as described in Section D), there is no less damaging feasible alternative; and (3) with the avoidance, monitoring, and mitigation measures addressing environmentally sensitive habitat and sensitive species needs (discussed in Section D), temporary disruption of the marine environment from dredging and disposal does not trigger the need for additional mitigation.

1. Dredge Spoil Compatibility

Sediment Size and Chemical Concentrations of Sediment

The City has submitted a report from 2016 providing the most recent analysis of the physical and chemical characteristics of the material to be dredged within the Ventura Keys. That analysis was performed pursuant to the Sampling and Analysis Plan (SAP) approved by the U.S. Army Corp of Engineers (USACE) and the Dredge Material Management Team (DMMT) for the previously approved Coastal Development Permit (CDP) 4-07-118. That CDP effectively expired on June 11, 2018 and the subject CDP application, 4-18-0390, is a renewal of the work scope approved pursuant to that permit for another ten year term. The applicant has submitted a new draft SAP to the USACE and DMMT for the proposed dredging and they anticipate receiving final approval for the SAP by late fall 2018.

The *Revised Final Report, Sampling and Analysis, Ventura Keys Connecting Channel Sediment Investigation* (Applied Environmental Technologies, Inc., April 20, 2016) found that the Ventura Keys generally consist of predominately sandy silts and sandy clays and significant changes in grain size were observed between the current and past sampling events. The sediment grain size analysis indicated that an average of approximately 97.6% of the material in the core samples was coarse grained (retained in a Standard U.S. Sieve Size No. 200) while the Santa Clara river discharges approximately 21 percent of their sediment volume as sands that could be retained on a 200 sieve. Despite this change in grain size, the analysis of that report concluded :

Sediment grain size remains consistent with the river discharge...It is the conclusion of this report that the sediment in the Ventura Keys [approximately 97.6 percent retained on the 200 sieve] is considered optimal for placement on the adjacent beaches.

Therefore, as of the 2016 sampling and analysis report, sediments dredged from the Ventura Keys channels are physically suitable for surf zone or nearshore deposition at the river mouth location.

Chemical analysis of the channel sediments was conducted in February 1994, March 1997, July 1997, November 1998, June 2005, and December 2015. The tests indicated that no significant changes were observed between this sampling period and previous ones. The most recent analysis of the chemical characteristics of the material as detailed in the April 20, 2016 report states that no semi-volatile organic compounds (VOC), polychlorinated biphenyls (PCBs) pesticide, insecticide, organotin, or metal concentrations were detected that exceeded the total threshold limit concentrations (TTLCs) which identifies the material as hazardous. In addition, no semi-VOC, PCB, pesticide, insecticide, organotin, or metal concentrations were detected that exceed the EPA Region 9 Regional Screening Levels (RSL) for exposure to these compounds in soil. The analysis of that report concluded that:

No impact is expected from these compounds to discharge to waters offshore the Santa Clara River mouth...the toxicity and bioaccumulation testing has shown no impact to fauna in the Connecting Channel from sediment.

Therefore, relative to chemical concentrations the sediments proposed for deposition are suitable for surf zone or nearshore deposition near the mouth of the Santa Clara River.

While the most recently available data shows that the sediment to be dredged is physically and chemically suitable for beach deposition, it is possible that the conditions since the 2016 report have changed. Furthermore, conditions between dredging events approved in this permit may be altered by a number of episodic factors, including heavy rainfall events or potential chemical spills within the harbor. To ensure that shoal material dredged at the start of the first dredging event is physically and chemically compatible with the proposed deposition sites, and to ensure that future shoal material for each subsequent dredging event is physically and chemically compatible with the proposed deposition sites, the Commission finds it necessary to require **Special Condition Three (3)** which requires the applicant to continue to test the physical and

chemical characteristics of representative samples of the dredging area(s) and to submit the results for the review and approval of the Executive Director. Specifically, **Special Condition Three (3)** requires that physical (grain size) analysis of a representative sample of sediment be conducted prior to initiation of the dredging operations to ensure that it meets criteria for beach replenishment, and that the applicant notify the Executive Director if the samples indicate that the dredged material no longer meets the physical standards for beach replenishment as described in **Special Condition Four (4)**.

In addition, **Special Condition Three (3)** requires the applicant to continue to analyze the chemical and physical qualities of the sediment, consistent with EPA and Regional Water Quality Control Board requirements. Pursuant to **Special Condition Three (3)**, sediment quality analyses shall be conducted a minimum of every three years, unless the EPA or RWQCB determine that the sediment exceeds any contaminant threshold levels. If sediment samples exhibit elevated levels of any contaminant, sampling will be conducted prior to any dredging event for all subsequent years of the subject permit. The results of all grain size and chemical analysis shall be included in the Dredging and Disposal Operations Plan required pursuant to **Special Condition Two (2)**, submitted no later than two (2) weeks prior to the dredging event.

Special Condition Three (3) further requires that, in the event of a spill, release, or similar event that has the potential to result in contamination of sediments in the project area, the applicant shall submit a written report of the event to the Executive Director within 30 days of its occurrence, and shall commence sampling at least six (6) weeks prior to any subsequent dredging event. Sampling results and analysis must be submitted for the review and approval of the Executive Director, at least two (2) weeks prior to any dredging operation.

In addition, **Special Condition Thirteen (13)** requires that the applicant submit current evidence to the Executive Director that all State and Federal permits necessary for the proposed project including the U.S. Army Corps of Engineers and the California State Lands Commission have been approved.

The dredged material must comply with all applicable federal and state beach replenishment or dredge spoils discharge requirements for disposal at any of the proposed receiver sites. In addition to EPA requirements, the California Regional Water Quality Control Board (RWQCB) regulates discharges to land and water. The RWQCB approved periodic maintenance dredging and deposition for beach replenishment for material dredged from the Ventura Keys through Order No. R4-2013-0142 (RWQCB File 97-127). Additionally, CDP 4-16-0333 (Ventura Port District) was issued for dredging and disposal operations of the inner and outer harbor areas at the Ventura Harbor on September 8, 2016. The disposal sites currently proposed in the subject CDP, the surf zone at Cell 1 of the Pierpont Groin Field, the surf zone at the mouth of the Santa Clara River, and/or the near shore waters at the mouth of the Santa Clara River, were also approved as disposal sites for the dredging previously permitted through CDP 4-16-0333 and evaluated by the RWQCB. RWQCB Order No. R4-2013-0142 provides that:

The City may dispose of dredged material for beach replenishment purposes into Cell 1 of the Pierpont Bay Groin Field provided that the material is composed of sediment that contains 65% or more coarse-grained material (i.e., retained on a

number 200 sieve) and the dredged material does not contain elevated concentrations of trace metals or trace organics.

The City may dispose of dredged material in the surf zone or nearshore waters within 300 feet of the mouth of the Santa Clara River provided that the river is flowing at a rate of 100 cubic feet per second or greater and the dredged material does not contain elevated concentrations of trace metals or trace organics.

Consistent with these requirements for disposal, **Special Condition Four (4)**, dredge spoil compatibility, cites the grain size criteria for each receiver site. Those materials that do not meet state and federal requirements for surf zone or nearshore deposition shall be disposed of as identified in the debris management plan, consistent with the requirements of **Special Condition Two (2)**, the Dredging and Disposal Operation Plan, or in an alternate location licensed to accept such materials as described in **Special Condition Four (4)**. The Commission finds **Special Conditions Two (2)** and **Four (4)** are necessary to ensure proper disposal of solid debris and dredged material unsuitable for placement into the marine environment.

The proposed dredging program will serve to achieve and maintain identified ideal dredging depths and replenish local beaches which will accommodate the coastal-dependent uses that the project area provides. The proposed design depths provide parameters under which dredging and deposition will occur, while the actual amount of material moved will vary annually depending on storm occurrence, natural sediment accumulation, funding, permitting, and permit restrictions on timing and location of the proposed operations.

For the reason set forth above, the Commission finds that the proposed project, as conditioned, is consistent with Section 30233 of the Coastal Act.

C. COASTAL ACCESS AND RECREATION

Coastal Act Section 30210 states that:

In carrying out the requirement of Section 4 of Article X of the California Constitution, maximum access, which shall be conspicuously posted, and recreational opportunities shall be provided for all the people consistent with public safety needs and the need to protect public rights, rights of private property owners, and natural resource areas from overuse.

Coastal Act Section 30211 states:

Development shall not interfere with the public's right of access to the sea where acquired through use or legislative authorization, including, but not limited to, the use of dry sand and rocky coastal beaches to the first line of terrestrial vegetation.

Coastal Act Section 30212(a) provides that in new shoreline development projects, access to the shoreline and along the coast shall be provided except in specified circumstances, where:

(1) it is inconsistent with public safety, military security needs, or the protection of fragile coastal resources.

(2) adequate access exists nearby, or,

(3) agriculture would be adversely affected. Dedicated access shall not be required to be opened to public use until a public agency or private association agrees to accept responsibility for maintenance and liability of the accessway.

Section 30220 of the Coastal states:

Coastal areas suited for water-oriented recreational activities that cannot readily be provided at inland water areas shall be protected for such use.

Section 30224 of the Coastal Act states:

Increased recreational boating uses of coastal waters shall be encouraged, in accordance with this division, by developing dry storage areas, increasing public launch facilities, providing additional berthing space in existing harbors, limiting non-water-dependent land uses that congest access corridors and preclude boating support facilities, providing harbors of refuge, and by providing for new boating facilities in natural harbors, new protected water areas, and in areas dredged from dry land.

The proposed project is a ten-year dredging program that includes disposal of dredged material into nearby surf zones and nearshore waters. The proposed project will maintain the waterways of the Keys and nearby beach areas for their associated boating and recreational uses, which will therefore continue to accommodate coastal-dependent and public recreational opportunities supported by the provisions of the Coastal Act.

The proposed dredging will be within the waterways of the Ventura Keys and the three deposition sites are located: (1) within the surf zone at Cell 1 of the Pierpont Groin Field, (2) within surf zone at the mouth of the Santa Clara River, and/or (3) the near shore waters at the mouth of the Santa Clara River. The project area, including the waterways and beach areas, are actively used by the public for various recreational activities, such as boating, surfing, sunbathing, walking, and other forms of passive recreation. The project involves dredging and disposal of dredged sediment, and establishment of staging areas for such operations, on beaches that are popular recreation areas as well as ocean access points for swimming, kayaking, surfing and other uses of coastal waters.

1. Water Oriented Recreation

Sections 30220 and 30224 of the Coastal Act mandate that coastal areas suited for water-oriented recreational activities shall be protected and recreational boating uses of coastal waters shall be encouraged.

The Ventura Harbor, channels in the Ventura Keys, and local area beaches provide a variety of coastal-dependent commercial and recreational resources including boating, fishing, sunbathing, kayaking, swimming, and surfing. Maintenance dredging is an on-going activity required to maintain the entrance and navigational channels, provide safe navigation for maritime traffic, and minimize risks of hazardous shoaling conditions within the navigation channels. Dredged materials are used for beach replenishment to maintain nearby beaches for recreational use, shoreline protection for existing development, and reintroduction of sediment, which would otherwise remain trapped in the protected harbor, into the littoral current for replenishment of down coast beaches.

The proposed project involves dredging and disposal to maintain channel configurations and depths. As mentioned above, dredging of the harbor area is necessary to maintain safe navigation for commercial and recreational boating and therefore, the proposed project will serve to protect boating uses of coastal waters. The proposed project will also protect and maintain adjacent beaches for recreational use through beach nourishment. The Commission finds that the proposed project will serve to maintain and possibly enhance recreational boating use of the Ventura Keys, and that the proposed project will maintain adjacent beaches for recreational access.

For the above reasons, the Commission finds that the proposed project will support water-oriented recreational opportunities and recreational boating uses of coastal waters, and is therefore consistent with Sections 30220 and 30224 of the Coastal Act.

2. Public Access and Recreation

Coastal Act Sections 30210, 30211, and 30212 mandate that maximum public access and recreational opportunities be provided to allow use of dry sand and rocky coastal beaches and that development not interfere with the public's right to access the sea, consistent with the need to protect public safety, private property and natural resources. All projects requiring a coastal development permit must be reviewed for compliance with the public access provisions of Chapter 3 of the Coastal Act.

The dredging operation may encompass up to a 50-foot wide corridor, $\frac{3}{4}$ -mile in length to the north (Pierpont Groin deposition site) and approximately 2 miles in length to the south (Santa Clara River sites), as a result of the placement of pipeline on the beach (see pipeline route in [Exhibit 3](#)). As proposed, the pipeline would be partially, and temporarily, buried during the dredging operation in order to allow continued access over the pipeline. However, in past instances, the pipeline has been unburied by storm and wave action. This may serve as a temporary impediment to access during the proposed operation. However, use of these areas is of a much more limited nature during these heavy weather episodes, and the obstacle created by the pipeline is generally surmountable in some areas. Furthermore, the pipeline is removed from the project site immediately at the conclusion of the dredging operation. Finally, the project is only undertaken in the off-peak beach use season. To ensure that this responsibility is undertaken, **Special Condition Nine (9)** makes it the applicant's responsibility to assure that no pipes or any other equipment are stored on the beach from the Friday before Memorial Day through Labor Day of each year, and as constrained by other sensitive resources timing restrictions described in **Special Condition One (1)**. In addition, **Special Condition Nine (9)** requires the applicant to

ensure that the beach is graded and groomed to natural beach contours to facilitate recreational use, at the completion of each year's dredging and deposition.

All waterways within the Ventura Keys will not be dredged in any one year. When dredging occurs, the operations will typically occur 24 hours per day, 7 days per week to ensure the project is completed as quickly as possible. Each dredging episode may take 30 to 60 days to complete. The Commission finds that due to the extensive beaches in the project area open to the public, including San Buenaventura State Beach and McGrath State Beach, the displacement of beach users is minimal.

However, to ensure that maximum access is maintained for the public in the project area, **Special Condition One (1)** requires that all dredging operations, including operation of equipment, spoil disposal, placement or removal of disposal pipelines, or other construction, maintenance, material removal, or activities involving mechanized equipment be prohibited on any part of the beach and shorefront in the project area from the Friday before Memorial Day in May through Labor Day in September to avoid impact on public recreational use of the beach. In this way, scheduling operations outside of peak recreational seasons will serve to minimize potential impacts on public access.

To ensure that public access is safe-guarded in the project area, the Commission has required **Special Condition Two (2)** which calls for the applicant to submit an operations plan for dredging and disposal, for the review and approval of the Executive Director within thirty (30) days in advance, and in no case later than two (2) weeks prior, to each dredging operation. The operations plan shall include a detailed description of the proposed dredging operation including the proposed schedule, the type of dredging operation, approximate volume of material to be removed, the volume of material to be deposited at each receiver site, and the capacity of the equipment. **Special Condition Two (2)** specifically requires that local agencies be advised of the proposed deposition location(s) and the quality and quantity of material that will be dredged and available for beach replenishment, as described in **Special Condition Eleven (11)**, Agency Coordination. The Commission finds that coordination with agencies, including the cities of Ventura and Oxnard, California Parks and Recreation, Army Corp of Engineers, Regional Water Quality Board, and the Beach Erosion Authority for Clean Oceans and Nourishment (BEACON) will allow interested parties to be involved in the prioritization of disposal sites to receive material that could serve to enhance shoreline sand supply, and thus access and recreation within the project vicinity. As conditioned, the proposed project may serve to enhance recreational planning and available shoreline in the project vicinity as determined through local and regional agency input.

The Commission further finds that impacts to access may occur as a result of unanticipated impacts to shoreline and beach composition due to deposition activities. To address this issue, **Special Condition Five (5)** requires the implementation of a long-term Shoreline Monitoring Program to analyze changes to beach profiles, sand width, and volume in relation to the volume and location of deposition activities. The results of the survey shall be provided to the Executive Director for subsequent determination of the impact associated with this method of deposition to coastal resources.

The Commission notes that though ample beach area will remain available for public use during the proposed operations, establishing staging areas necessary to support the proposed operations in locations outside of heavily used beach areas will minimize interference with public access at the project site. Therefore, **Special Condition Ten (10)** requires the applicant to submit, for review and approval of the Executive Director, a report which describes the operation staging requirements, including the location of the project construction headquarters, all construction staging areas and access routes, and any special staging needs for heavy machinery, prior to the commencement of any dredging and discharge operations authorized by this coastal development permit to ensure that the operations are in substantial conformance with the public access policies of the Coastal Act.

Furthermore, to ensure the safety of recreational users of the project site, particularly recreational users of adjacent beaches where disposal operations will be occurring, and to reduce potential conflicts between the sediment management operations and recreational use of the areas, the Commission finds it necessary to require **Special Condition Twelve (12)**, the Public Access Program, for the subject permit. **Special Condition Twelve (12)** requires the applicant to implement measures, including installation of signs, fencing, and posting of security guards, to ensure that safe public access to or around beach deposition sites will be maintained.

The Commission finds that the proposed project, as conditioned, will not significantly impact recreational opportunities and public access at the project site, and therefore the project is consistent with Sections 30210, 30211, 30212, 30220, and 30224 of the Coastal Act.

D. MARINE RESOURCES AND ENVIRONMENTALLY SENSITIVE HABITAT AREAS

Section 30230 of the Coastal Act states:

Marine resources shall be maintained, enhanced, and where feasible, restored. Special protection shall be given to areas and species of special biological or economic significance. Uses of the marine environment shall be carried out in a manner that will sustain the biological productivity of coastal waters and that will maintain healthy populations of all species of marine organisms adequate for long-term commercial, recreational, scientific, and educational purposes.

Section 30231 of the Coastal Act states:

The biological productivity and the quality of coastal waters, streams, wetlands, estuaries, and lakes appropriate to maintain optimum populations of marine organisms and for the protection of human health shall be maintained and, where feasible, restored through, among other means, minimizing adverse effects of waste water discharges and entrainment, controlling runoff, preventing depletion of ground water supplies and substantial interference with surface water flow, encouraging waste water reclamation, maintaining natural vegetation buffer areas that protect riparian habitats, and minimizing alteration of natural streams.

Section 30240 of the Coastal Act states:

(a) Environmentally sensitive habitat areas shall be protected against any significant disruption of habitat values, and only uses dependent on those resources shall be allowed within those areas.

(b) Development in areas adjacent to environmentally sensitive habitat areas and parks and recreation areas shall be sited and designed to prevent impacts which would significantly degrade those areas, and shall be compatible with the continuance of those habitat and recreation areas.

Sections 30230 and 30231 of the Coastal Act mandate that marine resources and coastal water quality shall be maintained and where feasible restored, protection shall be given to areas and species of special significance, and that uses of the marine environment shall be carried out in a manner that will sustain biological productivity of coastal waters. Section 30240 of the Coastal Act requires that environmentally sensitive habitat areas (ESHA) must be protected against disruption of habitat values and that only resource dependent uses may be allowed within ESHA. Additionally, development adjacent to ESHA must be sited and designed to prevent impacts to ESHA.

The proposed project involves dredging of open coastal waters and deposition of dredged sediment in the surf zone and nearshore waters at nearby beaches. Wetland (salt and brackish marsh), deepwater marine and estuarine ecosystems (as defined by the U.S. Fish and Wildlife Service National Wetlands Inventory), and coastal strand habitat of sand beaches and dunes (as defined by Munz, 1974) are located near the proposed deposition sites. The Commission notes that disposal in and near areas identified as providing habitat for sensitive wildlife species has the potential to adversely impact those species. Several sensitive species may be present in the project area, including the California brown pelican, western snowy plover, California least tern, steelhead trout, tidewater goby, and California grunion.. The pipeline route avoids the South Beach and McGrath State Beach sand dune habitat.

1. Marine Organisms

Dredging and disposal results in increased turbidity at the dredge and disposal site. Temporary adverse impacts to marine organisms are expected from the dredging and disposal operations. Temporary increases in turbidity and suspended solids decrease light penetration, causing a decline in primary productivity due to decreased photosynthesis by phytoplankton. Any appreciable turbidity increase may also cause clogging of gills and feeding apparatuses of fish and filter feeders if present. Mobile organisms would likely relocate to an undisturbed area.

Turbidity impacts are expected to be within 500 meters (1,640 feet) of the area excavated, with the maximum concentrations generally restricted to the lower water column, and decreasing rapidly with distance due to settling and dilution (ACOE 2004 citing LaSalle 1991). The impacts from dredging (i.e., increased turbidity, sedimentation, dissolved oxygen reduction, and mechanical abrasion to fish and shellfish) are expected to be local. Following dredging activities, fish and shellfish are expected to recolonize previously disturbed areas. As such, impacts from sediment re-suspension caused by dredging are anticipated to be short-term (ACOE 2004). In addition, the proposed deposition sites are located in areas which have naturally high levels of

turbidity due to high wave energy and river outfall particularly during the winter season when dredging takes place. Nonetheless, dredging locations and amounts change each year, causing varying amounts of turbidity and associated impacts. Thus some uncertainty remains regarding the impact of the proposed project on water quality.

The proposed project includes monitoring of water quality, as required by the California Regional Water Quality Control Board (RWQCB) through its permits for dredging operations, discussed above. This program entails weekly sampling of the entire water column within the area of dredged material disposal as well as at a control station, for the duration of each dredging operation. If the monitoring results indicate excess turbidity, the program requires further sampling and analysis to be conducted, and corrective action to be taken. The Commission finds that the monitoring program will provide the necessary data needed to evaluate the potential impacts of the proposed project on the nearshore and offshore marine environment

Therefore, in order to ensure that increases in turbidity and suspended solids at the dredging and deposition sites do not significantly impact marine organisms, **Special Condition Fifteen (15)** requires a qualified biologist or resource specialist to monitor turbidity during all project construction activities consistent with the monitoring and reporting required by the RWQCB. **Special Condition Fifteen (15)** further requires the applicant to submit, for the review of the Executive Director, all weekly monitoring reports that indicate non-compliance with the waste discharge requirements outlined in the Monitoring and Reporting Program. In addition, the applicant shall submit, for the review of the Executive Director, a final report, summarizing the weekly monitoring, within 30 days of the completion of each dredging operation. If the monitoring reports indicate that sediment disposal into the intertidal zone causes a significant adverse impact on water quality or the marine environment, **Special Condition Fifteen (15)** requires the applicant to submit, for review and approval by the Executive Director, a mitigation plan exploring feasible alternatives, mitigation measures, and/or alternative disposal locations for sediment disposal in the intertidal zone prior to any future deposition activities in the intertidal zone. Should the mitigation plan identify mitigation measures and/or project alternatives to minimize water quality impacts which results in a substantial change in the proposed development approved by the Commission, an amendment to the permit or a new coastal permit shall be required.

2. Sensitive Species and Habitats

Several sensitive species are present in the project area, including the California brown pelican, western snowy plover, California least tern, steelhead trout, tidewater goby, and California grunion. In addition, there are two sensitive habitats in the project area, the Santa Clara River estuary and sand dune habitats along South Beach and McGrath State Beach. Project activities, other than those discussed above under Section D(1) Marine Organisms, with the potential to adversely impact sensitive species or sensitive habitat, include (1) the installation, placement, and removal of the discharge pipeline; and (2) the post-dredging grading and grooming of the pipeline site(s) to natural beach contours.

The discharge pipeline route extending south to the Santa Clara River deposition area would cross beach areas identified as federally designated critical habitat of the western snowy plover,

cross the beach near California least tern nesting sites, and traverse near sand dune habitat. The pipeline route avoids the dune systems at South Beach and McGrath State Beach, and no equipment or deposition activities are proposed in this sensitive habitat.

The placement of the pipeline is accomplished by means of heavy equipment dragging each pipeline segment to its connection. The installation and removal of the pipeline therefore requires an adjacent access corridor sufficient to handle this type of traffic. The pipeline is placed on top of the natural contour of the beach but is covered with sand at various locations to facilitate continued public access over the conduit. This process creates considerable disturbance along the pipeline corridor during the approximately four to five days required for pipeline installation and one to two days needed for removal. The recontouring of the beach takes a matter of hours to complete at the deposition area. These activities occur over the course of the project, which may span up to three or four months. However, the average time is estimated to be two months per year. As such, project staging activities, including the location of the pipeline and access corridor, may impact environmentally sensitive resources. Therefore, in order to ensure that adverse impacts to sensitive coastal resources are avoided, **Special Condition Nine (9)**, prohibits placement of the pipeline, access route, and equipment corridor across dunes and requires that disturbance of the wrack zone is minimized. To further ensure that project staging is minimized and impacts to sensitive resource issues are avoided, the Commission requires the applicant to submit and an operation staging plan, pursuant to **Special Condition Ten (10)**, to the Executive Director for review and approval.

Post-dredging and deposition beach maintenance includes regrading the deposition site to natural beach contours. Furthermore, upon removal of the pipeline, the beach corridor may require regrading to remove any sand built up around the pipeline. In recognition of the potential of these project activities to impact sensitive biological resources in the project vicinity, **Special Condition Eight (8)** requires the applicant to retain a qualified biologist or environmental resource specialist to conduct a survey of the project site one day prior to the commencement of installation or removal of the discharge pipeline or any beach maintenance activities such as beach grading and grooming. The specialist is also required to be present during these project activities. Should the monitor determine that sensitive species are present and are exhibiting nesting or other reproductive behaviors, the environmental specialist shall require the applicant to cease work, and shall immediately notify the Executive Director and local resource agencies. Project activities can resume upon written approval of the Executive Director. The monitor shall also have the authority to cease operations should any breach in permit compliance occur or if any unforeseen sensitive habitat issues arise. If significant impacts or damage occur to sensitive wildlife species, the applicant shall be required to submit a revised, or supplemental program to adequately mitigate such impacts. Specific requirements for protection of the western snowy plover and California least tern are described below.

Western Snowy Plover

The Pacific Coast populations of western snowy plover (*Charadrius alexandrinus nivosus*) are small, sand colored shorebirds that use sandy beaches for nesting and roosting from southern Washington to Baja California. The snowy plover forages on invertebrates in the wet sand; amongst surf-cast kelp; on dry sandy areas above the high tide; on salt pans; on spoil sites; and

along the edges of salt marshes, salt ponds, and lagoons (USFWS 2001). Plovers breed primarily above the high tide line on coastal beaches, sand spits, dune-backed beaches, sparsely-vegetated dunes, beaches at creek and river mouths, and salt pans at lagoons and estuaries. They tend to be site faithful, with the majority of birds returning to the same nesting location in subsequent years (USFWS 2001 citing Warriner et al. 1986). The breeding season for snowy plovers along the Pacific coast extends from early March to mid-September. Nests are typically depressions in the sand lined with beach debris (e.g., pebbles, shell fragments, plant material) constructed by the male in flat, predominantly open areas with low vegetative cover. Eggs of the first clutch are usually laid by early April. The plover's eggs are speckled and are camouflaged with surrounding terrain. The chicks are precocial, walking within a few hours and feeding themselves within a day or so of hatch. Chicks are difficult to avoid because of their small size and camouflaged coloring. Often chicks crouch in vehicle tracks or footprints, making them vulnerable to being stepped on or driven over. For these reasons, the birds, nests, eggs, and chicks are difficult to see and subject to destruction.

The majority of California's wintering plovers roost and forage in loose flocks on sand spits and dune-backed beaches, with some occurring on urban and bluff-backed beaches, which are rarely used for nesting (USFWS 2001). Roosting plovers usually sit in small depressions in the sand, or in the lee of kelp, other debris, or small dunes (USFWS 2001 citing Page et al 1995). While some plovers remain in their coastal breeding areas year-round, others migrate south or north for the winter (USFWS 2001 citing Warriner et al 1986, Page et al. 1995, Powell et al. 1997). For instance, at Camp Pendleton in San Diego County, about 30% of nesting birds stayed during the winter (USFWS 2001 citing Powell et al. 1995, 1996, 1997).

The snowy plover was listed by the U.S. Fish and Wildlife Service (USFWS) as a threatened species in March 1993. Subsequently USFWS designated 180 miles of coastline in California, Oregon, and Washington as critical habitat in 1999. Critical habitat is a specific designation that identifies areas that are essential to conservation of an endangered species. The USFWS has released a *Recovery Plan for the Pacific Coast Population of Western Snowy Plover* (2007). The Recovery Plan identifies a 4.9-mile stretch of beach at Mandalay Bay/Santa Clara River Mouth and a 2.4-mile stretch along San Buenaventura State Beach, immediately north of the Ventura Harbor, as two of six breeding and/or wintering sites located in Ventura County targeted for management. The Management Goal for the Mandalay Bay/Santa Clara River unit is 60 breeding adult plovers. The San Buenaventura State Beach unit is recognized as a site that supports primarily wintering and/or migrating snowy plovers. The draft Recovery Plan does not provide a Management Goal in this area.

The dredging operation and deposition are not expected to directly impact the snowy plover. However, pipeline installation, pipeline removal, and other beach grading and grooming activities have the potential to adversely impact snowy plover. During prior dredging events, the pipeline installation process has taken four to five days to complete. Removal of the pipeline occurs at a more rapid pace, taking approximately two days to remove, depending upon weather and river conditions. The re-contouring of the beach takes a matter of hours to complete at the deposition area. These activities occur over the course of the project, which may span up to three to four months.

As identified in the Recovery Plan, dredging, disposal, and beach nourishment activities may have beneficial as well as detrimental effects to snowy plovers and habitat. Disturbances associated with dredging such as placement of pipes, disposal or dredged materials, or noise may affect wintering plovers. Alternately, the dredged material may provide important nesting habitat, or build up habitat as a result of beach nourishment. A recovery task that specifically addresses dredging states (USFWS, 2007, pg. 164-165):

2.2.2. Deposit dredged material to enhance and create nesting habitat. Near-shore (littoral drift) and on-shore disposal of dredged material seems to be beneficial for perpetuating high quality snowy plover nesting habitat and should be encouraged where appropriate. However, monitoring of habitat characteristics before, during, and after projects is needed, particularly in cases of large operations occurring on sites where snowy plovers nest or are deemed likely to nest following the disposal operation. On-shore disposal of dredged material should be scheduled outside the nesting season and, where possible, during seasons when birds are not present. In addition, dredged material must be clean sand or gravel of an appropriate grain size and must be graded to a natural slope.

The draft Recovery Plan also considers beach nourishment (pg. 166):

2.2.3. Beach nourishment activities have the potential to enhance western snowy plover habitat, but should be carefully evaluated to weigh the probable adverse and beneficial effects on plovers and on other sensitive coastal dune species.

The Santa Clara River mouth and southward along McGrath Beach are known wintering and nesting areas for the western snowy plover. The Mandalay Bay/Santa Clara River Mouth unit is recognized to support 9 to 70 breeding adult birds (USFWS 2007, pg. B-14). San Buenaventura State Beach is not known to support nesting snowy plovers. The recognized breeding season for snowy plovers in Ventura County is mid-March to late-September (USFWS, pers. comm. January 25, 2002). The USFWS draft Recovery Plan states that (page 9):

The earliest nests on the California coast occur during the first week of March in some years and by the third week of March in most years (Page et al. 1995a). Peak initiation of nesting is from mid-April to mid-June (Warriner et al. 1986, Powell et al. 1997). Hatching lasts from early April through mid-August, with chicks reaching fledging age approximately 1 month after hatching (Powell et al. 1997).

Thus, although the proposed nearshore and surf zone deposition is not expected to impact the snowy plover, pipeline placement, and associated project activities have the potential to adversely impact snowy plovers. In order to avoid any adverse impacts to nesting snowy plovers, the Commission requires the applicant, as provided in **Special Condition One (1)**, to restrict all project activities within federally designated critical habitat during the snowy plover breeding season from March 1 through September 30. This includes the storage of pipes on the beach in the critical habitat area. The Commission finds that **Special Condition Nine (9)** is necessary to

assign the applicant responsibility to ensure that no pipes or other equipment are stored in western snowy plover critical habitat areas during the breeding season.

Furthermore, **Special Condition Eight (8)** requires a biological survey to be conducted prior to commencement of pipeline movement, or other grading and grooming activities on the beach, and further requires a biological monitor to be present during the installation, removal, and other beach maintenance activities. If the surveyor or monitor find that any snowy plover is exhibiting reproductive or nesting behavior, the environmental specialist shall require the applicant to cease work, and shall immediately notify the Executive Director and local resource agencies. Work shall not re-commence except upon written approval of the Executive Director.

Snowy plovers are found year around in the sandy beach portions of the project area, both north and south of the Ventura Harbor entrance. During the winter the birds use the area to rest and feed to build up the fat reserves needed for reproduction and survivorship. As previously discussed, the disposal sites proposed in the subject CDP, the surf zone at Cell 1 of the Pierpont Groin Field, the surf zone at the mouth of the Santa Clara River, and/or the near shore waters at the mouth of the Santa Clara River, were also approved as disposal sites for the dredging previously permitted through CDP 4-16-0333. The *2018 Western Snowy Plover and Least Tern Monitoring Report* (April 2018) submitted pursuant to Special Condition 14 of that CDP provides the most recently available data on the effects of dredging deposition activities on snowy plovers this area. That report concludes:

Dogs were found on every portion of the beach where plovers normally occur during several surveys. Dogs were frequently not on leashes and allowed to chase various birds...People are commonly seen walking on the beach, sometimes through the center of a group of snowy plovers...No impact on wintering snowy plovers appear to have results from the dredge operations this year. No correlation between WSP use of the beach and the dredge operation has been made in the 15 years of monitoring...No incidental take occurred this year or in prior years

In order to ensure the continued protection of snowy plovers, and minimize any potential future impacts, the Commission finds it necessary to require that the applicant monitor snowy plover abundance and distribution at wintering locations. **Special Condition Fourteen (14)** requires that monitoring activities commence at least two (2) weeks prior to any dredging event, continue throughout the dredging operation, and extend at least two (2) weeks after the final dredging activity has been completed. **Special Condition Fourteen (14)** also requires the applicant to submit a snowy plover monitoring report to the Executive Director for review and approval by July 1 of each year which addresses plover population and trends; incidents of plover disturbance; and conclusions regarding the impact of the dredging operations on the plover population and habitat. If the Executive Director determines that adverse impacts have occurred to the plover population or habitat, the applicant shall cease work, and shall immediately notify resource agencies. The applicant shall be required to submit a revised, or supplemental, program to adequately mitigate such impacts. The revised, or supplemental, program shall be processed as

an amendment to this coastal development permit. Project activities shall resume only upon written approval of the Executive Director.

In addition, **Special Condition Nine (9)** requires the applicant to implement specific measures, including limiting operation to within 50 feet of the pipeline route, requiring a monitor to walk ahead of any vehicles on the beach, and restoration of natural beach contours following pipeline removal, recommended in the 2006 Bowland & Associates snowy plover monitoring report to reduce project impacts on the snowy plover.

Furthermore, the Commission finds that **Special Condition Ten (10)** is necessary to ensure that the staging areas are located in areas that minimize the interface of project activities with wintering snowy plovers. **Special Condition Ten (10)** requires the applicant to submit, for review and approval of the Executive Director, a report which describes the operation staging requirements, including the location of the project construction headquarters, all construction staging areas and access routes, and any special staging needs for heavy machinery, prior to the commencement of any dredging and discharge operations authorized by this coastal development permit.

To ensure that the project is properly designed for the long-term protection of habitat, **Special Condition Four (4)** requires the dredged material to meet federal and state beach nourishment and spoil discharge criteria, including physical and chemical testing as described in **Special Condition Three (3)**. Additionally, **Special Condition Five (5)** requires post-dredging operation monitoring of the nearshore and shoreline project areas, including beach width and sand volume changes. This information will be important to assess the project and its potential to effect plover habitat.

The project is limited term and will end on October 11, 2028, as described in **Special Condition Seventeen (17)**, effectively ten annual dredging seasons (2018-19, through 2027-28). Subsequent data from the monitoring program shall be used to assess the effectiveness of the program and will allow an adaptive management approach that preserves habitat for ensuing years.

The beach replenishment sites are nearshore or on-shore of snowy plover habitat areas. To ensure that the deposition of dredged material does not create detrimental impacts to beach slope, or subsequently to natural processes of erosion such as the network of dunes, **Special Condition Nine (9)** requires the applicant to rough grade the deposition area to natural beach contours, immediately upon completion of the dredging operation, and prior to the timing restrictions described in **Special Condition One (1)**. Furthermore, dune habitat will not be directly impacted by the project. As proposed by the applicant, and described in **Special Condition Nine (9)**, neither the disposal pipeline or equipment corridor shall cross or disturb sand dunes.

California Least Tern

The California least tern (*Sterna antillarum browni*) are migratory shorebirds that spend the breeding season on beaches from central and southern California to Baja, Mexico. Winter areas for the U.S. breeding population are largely unknown but it is presumed that the birds spend their

winters along the Pacific coast of Central America. Though the timing of migration varies, terns typically begin to arrive along the California coast in mid-April with the fall migration from breeding colonies starting as early as June and extending as late as mid-October.¹ Least terns typically migrate in small, loose groups, feeding en route in shallow water near land and resting on sandbars, beaches, pilings, and docks. The least tern forages on small surface fish such as anchovies and topsmelts, captured from nearshore waters, estuaries, and river mouths near the breeding colonies.

Least terns nest in loose colonies in areas relatively free from human or predatory disturbance. Courtship may take place away from the nest colony, on a beach or exposed tidal flat. They tend to be site faithful, with the majority of birds returning to the same nesting location in subsequent years. Courtship period is usually 2 to 3 weeks in April and May with first eggs in California appearing in approximately mid-May. The breeding season for least terns along the California coast extends from April through August. California least terns are ground-nesting birds which nest in barren to sparsely vegetated sites near water, usually in association with river mouths or estuaries. Nests are shallow depressions in sand, soil, or pebble and are lined with beach debris (e.g., pebbles, shell fragments, plant material). The eggs are small, oval-shaped eggs, beige to olive in color with spots or splotches medium brown to black. Eggs are hatched after about 25 days. The chicks are semiprecocial, walking shortly after hatching but with the parents feeding chicks occasionally for up to several weeks after fledging. Chicks leave nest at about 2 days of age, and fledge at approximately 20 days. The population of California least tern has experienced a decline due to the loss of suitable nesting habitat, which has been degraded by high levels of human disturbance along the beach as well as by the effects of urbanization of the shoreline.

The California least tern was listed by the U.S. Fish and Wildlife Service as an endangered species in 1970 and by the California Department of Fish and Game in 1971. No critical habitat has been identified for this species, though a draft Recovery Plan was prepared in 1977 and revised in 1980 with a primary objective of increasing the population to a minimum of 1200 pairs distributed among colonies in at least 20 coastal wetland ecosystems. By 1992, their numbers had increased to approximately 2160 nesting pairs in 35 different colonies.

An established California least tern nesting colony is located on the north side of the mouth of the Santa Clara River. The designated nesting site is fenced annually by California Department of Fish and Wildlife to protect the nesting terns from predators and human intrusion, but some least terns nest outside the fenced area. The normal tern forage area is within an approximately two-mile radius of the nesting colony, which includes a majority of the subject project area. However, the proposed deposition in that area would be at a depth of approximately -15 to -30 feet, and thus would not cause surface turbidity that could affect the least tern's foraging ability.

The dredging operation and proposed nearshore and surf zone deposition are not expected to directly impact the least tern. However, activities accessory to the project, such as pipeline installation, pipeline removal, and other beach grading activities, have the potential to adversely impact least tern habitat. During prior dredging events, the pipeline installation process has taken four to five days to complete. Removal of the pipeline occurs at a more rapid pace, taking

¹ Thompson et. al., *Least Tern*, The Birds of North America, No. 290 (1997).

approximately two days to remove, depending upon weather and river conditions. The re-contouring of the beach takes a matter of hours to complete at the deposition area. These activities occur over the course of the project, which may span up to three to four months. To ensure that dredge disposal or other project activities do not take place during the least tern nesting season, the Commission finds it necessary to require that these activities do not occur within 100 yards of, and on the entire beach seaward of, the least tern nesting areas identified annually by the California Department of Fish and Wildlife from March 15 through August 31 as required by **Special Condition One (1)**. In addition, to ensure that the dredging does not impact any least terns that may arrive earlier than the recognized breeding season (March 15 through August 31), **Special Condition Eight (8)** requires a biological survey to be conducted prior to commencement of pipeline movement, or other grading and grooming activities on the beach, and further requires a biological monitor to be present during the installation, removal, and other beach maintenance activities. If the surveyor or monitor finds that any least tern is exhibiting reproductive or nesting behavior, the environmental specialist shall require the applicant to cease work, and shall immediately notify the Executive Director and local resource agencies. Work shall not re-commence except upon written approval of the Executive Director.

Because an established California least tern nesting colony is located near the project site, it is possible that least terns may be present in the project area outside of the breeding season. The Commission finds that should there be any least terns utilizing the area as a migratory stop over, outside of the breeding season, which are not exhibiting reproductive behaviors, the applicant shall avoid disturbance of the birds and record their presence, distribution, and behavior as part of the snowy plover surveys, as required by **Special Condition Fourteen (14)**. The results of the survey shall be submitted with the results of the snowy plover monitoring report to the Executive Director for review and approval by July 1 of each year. This report shall include conclusions regarding the impact of the dredging operations to least terns. If the Executive Director determines that adverse impacts have occurred to the least tern population or habitat, the applicant shall cease work, and shall immediately notify resource agencies. The applicant shall be required to submit a revised, or supplemental, program to adequately mitigate such impacts. The revised, or supplemental, program shall be processed as an amendment to this coastal development permit. Project activities shall resume only upon written approval of the Executive Director.

Furthermore, the Commission finds that **Special Condition Ten (10)** is necessary to ensure that the staging areas are located in areas that minimize the interface of project activities with least tern habitat. **Special Condition Ten (10)** requires the applicant to submit, for review and approval of the Executive Director, a report which describes the operation staging requirements, including the location of the project construction headquarters, all construction staging areas and access routes, and any special staging needs for heavy machinery, prior to the commencement of any dredging and discharge operations authorized by this coastal development permit. To ensure that the project is properly designed for the long-term protection of least tern breeding and foraging habitat, **Special Condition Three (4)** requires the dredged material to meet federal and state beach nourishment and spoil discharge criteria, including physical and chemical testing as described in **Special Condition Three (3)**. Additionally, **Special Conditions Five (5)** requires pre- and post-dredging operation monitoring of the nearshore and shoreline project areas,

including beach width and sand volume changes. This information will be important to assess the project and its potential to affect habitat.

The beach deposition site is located in the surf zone seaward of the least tern habitat areas. To ensure that the deposition of dredged material does not create detrimental impacts to beach slope, or subsequently to natural processes of erosion such as the network of dunes, **Special Condition Nine (9)** requires the applicant to regrade the deposition area to natural beach contours, immediately upon completion of the dredging operation, and prior to the timing restrictions described in **Special Condition One (1)**. **Special Condition Nine (9)** also requires the applicant to ensure that during the placement and removal of pipeline, and all other times, that at no time shall disposal or associated activities interfere with the breaching or retention of flow within the Santa Clara River estuary in such a way as to cause or threaten flooding on adjacent lands. Furthermore, as proposed by the applicant, and described in **Special Condition Nine (9)**, neither the disposal pipeline or equipment corridor shall cross or disturb sand dunes. The project is limited term and will end on October 10, 2028, as described in **Special Condition Seventeen (17)**, effectively ten annual dredging seasons (2018-19, through 2027-28). Subsequent data from the monitoring program shall be used to assess the effectiveness of the program and will allow an adaptive management approach that preserves habitat for ensuing years.

Steelhead Trout

Noise, vibration, and altered water quality resulting from deposition activities near the mouth of the Santa Clara River could potentially interfere with steelhead migration that is likely to occur winter through summer months. During one of the past Ventura Harbor dredge sessions, an issue was raised concerning disposal of material adjacent to the mouth of the Santa Clara River, because the disposal occurred too close to the river mouth, potentially affecting spawning and juvenile steelhead trout and other sensitive habitat within the Santa Clara River estuary. As shown in the applicant's deposition plan, no disposal activities would occur within 300 feet of the river channel. This will ensure that fisheries and estuarine habitat associated with the Santa Clara River will not be adversely affected by the disposal.

In addition, the discharge of dredged material into the surf zone near the mouth of the river would only occur when the river flow is 100 cubic feet per second or greater and the dredged material does not contain elevated concentrations of trace materials or trace organics. The California Department of Fish and Wildlife and the U.S. Army Corps of Engineers have previously determined that 100 cubic feet per second is an adequate flow rate to ensure that the turbidity associated with the dredging operation will be masked by the background turbidity of the Santa Clara River. In other words, the goal is to ensure that a "masking" background effect exists before adding the additional turbidity of the dredging operation, thereby ensuring that no independent, significant effects occur that would not otherwise have been naturally present.

The Commission finds that the surf zone deposition near the mouth of the river, consistent with the aforementioned criteria, is protective of steelhead by ensuring that the mixing of sediment is discharged in a manner compatible with the natural discharge of the river. To ensure that this practice continues to be implemented to protect the resources in the Santa Clara River estuary including steelhead, **Special Condition Four (4)** stipulates that deposition may only occur in the surf zone near the mouth of the river at least 300 feet from the active river channel and when the

river flow is 100 cubic feet per second or greater, and the dredged material does not contain elevated concentrations of trace materials or trace organics.

California Grunion

The California grunion is a small fish in the silversides family and is extremely unusual among fish in its spawning behavior. The grunion spawns on the sandy beaches in the project vicinity immediately following high tides from mid-March through August. The eggs are incubated in the sand until the following series of high tide conditions, when the eggs hatch and are washed into the sea.

California grunion is a species of concern due to its unique spawning behavior, and is carefully managed as a game species. Project activities within the intertidal zone may disturb adult grunion during the run period and/or may bury incubating grunion eggs. Therefore, the proposed dredging and discharge operations have the potential to significantly impact California grunion by dredging or depositing sediment within the intertidal zone during the seasonally predicted protected grunion run period and egg incubation period of March through August.

In order to ensure that the proposed project will not have an adverse impact on California grunion, **Special Condition One (1)** states that no work shall be conducted on the beach and shorefront area while California grunion are present on the beach. **Special Condition One (1)** further stipulates that sediment shall not be placed on any beach below the high water line during the seasonally predicted run period and egg incubation period of California grunion, unless specifically authorized by the Executive Director. Such authorization will be given only after the Executive Director has received evidence that a qualified resource specialist has conducted an appropriate survey for the presence of any adult grunion and/or live grunion eggs at the project site, as required by **Special Condition Eight (8)**.

Furthermore, to ensure that the Executive Director is notified of commencing dredging and discharge operations, and to ensure that all relevant monitoring information has been analyzed for potential impacts on sensitive wildlife species at the site, **Special Condition Two (2)** of the subject permit requires the applicant to submit a dredging and disposal operation plan describing the locations, staging areas, methods and timing of proposed operations, including all relevant monitoring reports, prior to commencement of any operations authorized by this coastal permit.

Tidewater Goby

The tidewater goby is a brackish water fish species adapted to both fresh and saltwater. This species has been recorded in both the Santa Clara and Ventura Rivers. The tidewater goby is not expected to be affected by the proposed project because disposal will not occur within or alter the sensitive riparian habitat or estuary area associated with the Santa Clara River. As proposed, dredging material would be conducted below the mean high water line along the 2,500 feet of beach near the mouth of the Santa Clara River, with the actual discharge point being at least 300 feet away from the location at which the river flows into the ocean. In addition, discharge of material would only occur within this area when the river flow is 100 cubic feet per second or

greater, and the dredged material does not contain elevated concentrations of trace materials or trace organics.

The Commission finds that the surf zone deposition at the mouth of the river, consistent with the aforementioned criteria, is protective of tidewater goby by ensuring that the mixing of sediment is discharged in a manner compatible with the natural discharge of the river. The California Department of Fish and Wildlife and the U.S. Army Corps of Engineers previously determined that 100 cubic feet per second is an adequate flow rate to ensure that the turbidity associated with the dredging operation will be masked by the background turbidity of the Santa Clara River. In other words, the goal is to ensure that a “masking” background effect exists before adding the additional turbidity of the dredging operation, thereby ensure that no independent, significant effects occur that would not otherwise have been naturally present.

To ensure that this practice continues to be implemented to protect the resources in the Santa Clara River estuary including tidewater goby, **Special Condition Four (4)** stipulates that deposition may only occur in the surf zone near the mouth of the river at least 300 feet from the active river channel and when the river flow is 100 cubic feet per second or greater.

California Brown Pelican

California brown pelicans are year-round “residents” of the harbor area. The pelicans are known to rest on structures in the Ventura Harbor and occasionally feed in the area to be dredged. However, sufficient additional resting and feeding areas are available in the vicinity. Therefore, potential project impacts on brown pelicans are minimal due to the temporary nature of project disturbance and the species’ tolerance of human activities.

3. Eelgrass

Eelgrass (*Zostera marina*) is an aquatic plant consisting of tough cellulose leaves which grows in dense beds in shallow, subtidal or intertidal unconsolidated sediments. Eelgrass is considered worthy of protection because it functions as important habitat and foraging area for a variety of fish and other wildlife, according to the Southern California Eelgrass Mitigation Policy (SCEMP) adopted by the National Marine Fisheries Service (NMFS), the U.S. Fish and Wildlife Service (USFWS), and the California Department of Fish and Wildlife (CDFW). For instance, eelgrass beds provide areas for fish egg laying, juvenile fish rearing, and waterfowl foraging. Sensitive species, such as the California least tern, a federally listed endangered species, utilize eelgrass beds as foraging grounds.

The proposed dredging project has the potential to directly impact sensitive resources, including eelgrass, which may be present in the project area. These dredging activities have the potential to directly remove and disturb eelgrass. In addition, the temporary turbid conditions created when dredging can reduce the light available to eelgrass by shading portions of the ocean floor.

While there is potential for eelgrass habitat within in the project area, it has not been recently identified as existing in the Ventura Harbor. However, it is possible that eelgrass has established in portions of the project site since the last survey was conducted. Staff notes that the

Commission has routinely required surveys for eelgrass to be carried out just prior to development activities in Harbor and Marina areas, as a condition of approval, in order to ensure that, if eelgrass is present, mitigation measures are incorporated into the project.

Therefore, **Special Condition Six (6)** requires the applicant, within 60 days and no later than thirty (30) days prior to construction, to conduct a survey of the project area for eelgrass during the period of active growth of eelgrass (typically March through October). If the survey identifies any eelgrass within the project area which would be impacted by the proposed project, the Executive Director must be notified prior to construction. If any eelgrass is identified in the project area before dredging, the applicants shall conduct a second eelgrass survey within 30 days after the conclusion of dredging activities to determine if any eelgrass was adversely impacted. All impacts to eelgrass habitat shall be mitigated at a minimum ratio of 1.38:1. Implementation of mitigation shall require an amendment to this permit or a new coastal development permit unless the Executive Director determines that no amendment or new permit is required.

Other Sensitive Species

The Commission notes that the proposed project, as conditioned, will minimize potential adverse impacts to sensitive wildlife species known to occur at the project site. However, the proposed project may result in potential adverse impacts to previously unidentified sensitive species and the surrounding environment due to unintentional disturbance from the sediment management activities. Therefore, to ensure that all recommendations of the environmental consultant are properly implemented, and to ensure that any potential adverse effects to the beach and marine environment are minimized, **Special Condition Eight (8)** requires the applicant to submit, for review and approval of the Executive Director, evidence that the applicant has retained the services of a qualified environmental resource specialist to conduct a survey of the project site to determine whether any sensitive wildlife species are present and exhibiting reproductive or breeding behavior prior to commencement of dredging and discharge operations authorized by this coastal development permit.

In the event that sensitive species are present and exhibiting reproductive behavior at the project site during the proposed operations, **Special Condition Eight (8)** also requires the environmental resource specialist to require the applicant to cease work and notify the Executive Director and local resource agencies. Project activities can resume upon written approval of the Executive Director.

Beach Wrack

Beach wrack, the tangles of kelp and sea grass that wash up onto beaches and settle in large clumps along the tide line, are of particular importance for invertebrates, plants, and birds in the intertidal zone of the beach. A diverse macrofauna, including amphipods, isopods, and insects are found in wrack. According to one study at Southern California beaches, wrack associated macrofauna made up an average of greater than 37% of species on ungroomed beaches and

comprised 25% or more of the total abundance on half of those beaches². The presence and amount of wrack on beaches is, therefore, directly correlated with the abundance and diversity of crustaceans and insects at beaches.

The same study also showed reduced presence of western snowy plover and black-bellied plover at beaches in Ventura and Santa Barbara counties where wrack used to be removed regularly as part of beach grooming activities. The presence of wrack on beaches has also been proven to reduce wind driven sand transport at beaches by more than 90%³.

The proposed project includes the placement of dredged sediment within Cell 1 of the Pierpont Groin Field, the surf zone of the Santa Clara River Mouth, and the near shore waters of Santa Clara River and the installation of discharge pipelines, and temporary establishment of access routes for construction equipment. These activities have the potential to impact the wrack zone. Therefore, in order to avoid potential adverse impacts to sensitive habitat, **Special Condition Nine (9)(e)** requires the applicant to retain wrack on the beach to the maximum extent feasible during project activities, including stockpiling of wrack during discharge operations and replacement of the wrack in the same location/configuration at the completion of project operations where possible.

4. *Caulerpa*

Caulerpa taxifolia is a tropical green marine alga that is popular in the aquarium trade because of its attractive appearance and hardy nature. In 1999 *C. taxifolia* was designated a prohibited species in the United States under the Federal Noxious Weed Act because of its highly invasive nature, and the grave risk it poses to native habitats. However, its possession is still legal in California. In June 2000, *C. taxifolia* was discovered in Aqua Hedionda Lagoon in San Diego County, and in August of that year an infestation was discovered in Huntington Harbor in Orange County. Genetic studies show that this is the same clone as that released in the Mediterranean. Other infestations are likely. Although a tropical species, *C. taxifolia* has been shown to tolerate water temperatures down to at least 50° F. Although warmer southern California habitats are most vulnerable, until better information is available, it must be assumed that the whole California coast is at risk. All shallow marine habitats could be impacted.

In response to the threat that *Caulerpa taxifolia* poses to California's marine environment, the Southern California Caulerpa Action Team, SCCAT, was established to respond quickly and effectively to the discovery of *Caulerpa taxifolia* infestations in Southern California. The group consists of representatives from several state, federal, local and private entities. The goal of SCCAT is to completely eradicate all *C. taxifolia* infestations.

² Dugan, Jennifer E., et. Al. The Response of Macrofauna Communities and Shorebirds to Macrophyte Wrack Subsidies on Exposed Sandy Beaches of Southern California. *Estuarine, Coastal and Shelf Science* 58S pp. 133-148. 2003

³ Dugan, Jenifer E. and David M. Hubbard. Effects of Beach Grooming on Coastal Strand and Dune Habitats at San Buenaventura State Beach. Draft Final Report to California Resources Agency, Department of Parks and Recreation, Channel Coast District. Jan. 4, 2003.

If *Caulerpa taxifolia* is present, any project that disturbs the bottom could cause its spread by dispersing viable tissue fragments. In order to assure that the proposed project does not cause the dispersal of *Caulerpa taxifolia*, the Commission finds it necessary to require **Special Condition Seven (7)**. **Special Condition Seven (7)** requires the applicant, prior to commencement of development, to survey the project area and dredging equipment for the presence of *C. taxifolia*. If *C. taxifolia* is present in the project area, no work may commence and the applicant shall seek an amendment or a new permit to address impacts related to the presence of the *C. taxifolia*, unless the Executive Director determines that no amendment or new permit is required.

4. Conclusion

As described in detail above, the proposed project, as conditioned, will avoid or minimize impacts to environmentally sensitive habitat and species within the project area. As such, the Commission finds that the project, as conditioned, is consistent with Sections 30230, 30231, 30233, and 30240 of the Coastal Act

E. HAZARDS AND SHORELINE PROCESSES

Section 30253 of the Coastal Act states, in part:

New development shall:

(1) Minimize risks to life and property in areas of high geologic, flood, and fire hazard.

(2) Assure stability and structural integrity, and neither create nor contribute significantly to erosion, geologic instability, or destruction of the site or surrounding area or in any way require the construction of protective devices that would substantially alter natural landforms along bluffs and cliffs.

The proposed development is located in an area subject to tidal action. The tidal environment is dynamic and there are risks associated with development in such areas. For instance, erosion has occurred at the subject beaches where deposition is proposed, and erosion is one form of potential geologic hazard. However, the applicant will not increase erosion hazards by discharging sediment in the surf zone or nearshore waters. Furthermore, as described above, testing and monitoring of the discharged material will ensure risks to life and health are minimized. Therefore, the proposed project minimizes hazards consistent with Section 30253.

In addition to sediment deposition, the project involves hydraulic and clamshell dredging of the Ventura Keys. These areas have been dredged since their construction in the mid-1960s. Nearby creeks transport sediment to these areas, filling in portions of the channel. Maintenance dredging proposed by this project removes this accumulated sediment to design contours. It is unlikely, that dredging activities would significantly contribute to erosion, geologic instability, or substantially alter natural landforms along bluffs or cliffs.

However, because there remains an inherent risk to development along the shoreline, **Special Condition Sixteen (16)** requires the applicant, by acceptance of this permit, to assume the risk of development and to indemnify and hold harmless the California Coastal Commission, its officers, agents and employees against any and all claims, demands, damages, costs, expenses of liability arising out of the acquisition, design, construction, operation, maintenance, existence, or failure of the permitted project. In this way, the applicant is notified that the Commission is not liable for damage as a result of approving the permit for development.

For the reasons set forth above, the Commission finds that the proposed project, as conditioned, is consistent with Section 30253 of the Coastal Act.

F. LOCAL COASTAL PROGRAM

The proposed project area lies within the limits of the City of Ventura and City of Oxnard, but falls within the Commission's area of retained original permit jurisdiction because it is located in areas subject to tidal action. The Commission has certified Local Coastal Programs for the City of Ventura and the City of Oxnard (Land Use Plan and Implementation Ordinances) which contain policies for regulating development and protection of coastal resources, including the protection of environmentally sensitive habitats, recreational and visitor serving facilities, coastal hazards, and public access.

G. CALIFORNIA ENVIRONMENTAL QUALITY ACT

Section 13096(a) of the Commission's administrative regulations requires Commission approval of a Coastal Development Permit application to be supported by a finding showing the application, as conditioned by any conditions of approval, to be consistent with any applicable requirements of CEQA. Section 21080.5(d)(2)(A) of CEQA prohibits a proposed development from being approved if there are feasible alternatives or feasible mitigation measures available which would substantially lessen any significant adverse effect that the activity may have on the environment.

The Commission incorporates its findings on Coastal Act consistency at this point as if set forth in full. These findings address and respond to all public comments regarding potential significant adverse environmental effects of the project that were received prior to preparation of the staff report. As discussed in detail above, the proposed project, as conditioned, is consistent with the policies of the Coastal Act. Feasible mitigation measures, which will minimize all adverse environmental effects, have been required as special conditions. Special Conditions One (1) through Seventeen (17) are required to assure the project's consistency with Section 13096 of the California Code of Regulations. As conditioned, there are no feasible alternatives or feasible mitigation measures available, beyond those required, which would substantially lessen any significant adverse impact that the activity may have on the environment. Therefore, the Commission finds that the proposed project, as conditioned to mitigate the identified impacts, is consistent with the requirements of the Coastal Act to conform to CEQA.

APPENDIX A

Substantive File Documents

Coastal Commission Staff Report for CDP No. 4-07-118; Coastal Commission Staff Report for CDP No. 4-16-0333.