

Surfers Beach Restoration Pilot Project Permit Compliance Matrix

Source	Category	No.	Condition	Responsible Party(ies)
--------	----------	-----	-----------	------------------------

California Coastal Commission -- Consolidated Coastal Development Permit - CDP 2-22-0726

Expiration Date: September 6, 2026 Contact: isobel.cooper@coastal.ca.gov materials placement.			Staff Monitoring Report due: One year and three months from the date of commencement of	
--	--	--	--	--

CDP	Construction Plan	2	PRIOR TO ISSUANCE: Submit 2 copies of a Construction Plan for review and written approval. Must include: Construction Areas; Construction Methods; Construction Timing; Construction BMPs (CDP includes minimum BMP requirements in 2(d) 1-5); Restoration; Construction Site Documents; Construction Coordinator; Construction Specifications, and; Notification. * See 2(a) - 2(i) in Permit.	Construction Contractor to provide to District Consultants for submittal.
CDP	Construction Plan	2(i)	Notification. The Permittee shall notify planning staff of the Coastal Commission's North Central Coast District Office at least three working days in advance of commencement of construction, and immediately upon completion of construction.	District Consultants
CDP	As-Built Plans	3	Within 3 Months of Completion of Construction the permittee shall submit 2 copies of As-Built Plans to the Executive Director for review and written approval showing all elements of the approved project. The As-Built Plans shall be substantially consistent with the approved project identified in Special Condition 1. The As-Built Plans shall include color photographs (in both color hard copy 8 1/2 x 11 and digital jpg formats) that clearly show the as-built project and that are accompanied by a site plan that notes the location of each photographic viewpoint and the date and time of each photograph. At a minimum, the photographs shall be from upcoast, seaward, inland, and downcoast viewpoints, and from any other viewpoints necessary to provide complete photographic coverage of all project areas. Such photographs shall be at a scale that allows comparisons to be made with the naked eye between photographs taken in different years and from the same vantage points, including those chosen so as to inform potential future projects regarding how the placement of such materials affects surf conditions at Surfers Beach. The As Built Plans shall include vertical and horizontal references to inland surveyed benchmarks for use in future monitoring efforts. The As-Built Plans shall be submitted with certification by a licensed civil engineer with experience in coastal structures and processes, acceptable to the Executive Director, verifying that the project has been constructed in conformance with the approved project identified in Special Condition 1 and the terms and conditions of this CDP.	District Consultants
CDP	Monitoring and Reporting	4	The Permittee shall monitor the project and provide a report to the Executive Director that clearly describes both the implementation phase and the outcome of the project with respect to the boat launch area, the eelgrass restoration area, and Surfers Beach, where the intent is to use lessons learned from the project to inform and refine potential additional such projects in the future. At a minimum, the Permittee shall provide color photo documentation (in both color hard copy 8 1/2 x 11 and digital jpg formats, accompanied by a site plan that notes the location of each photographic viewpoint and the date and time of each photograph) of all aspects of the project, including at representative times (and at least weekly) during construction duration, and at the least monthly (at both high and low tides) after that for one year from the date of commencement of materials placement. At a minimum, the photographs shall be from enough viewpoints to provide complete photographic coverage of all project areas and shall include viewpoints chosen so as to inform potential future projects regarding how the placement of such materials affects surf conditions at Surfers Beach. In addition, monitoring efforts must provide a clear assessment of any impacts from sand placement, whether good or bad, on surfing resources, where at the least a narrative assessment of surf conditions shall be provided for each set of photographs (e. g., swell conditions, surf users, etc.) as compared to representative assessment conducted before the project is implemented. Such photographs shall be at a scale that allows comparisons to be made with the naked eye between photographs taken at different times from the same vantage points. Such photos, as well as a narrative describing the project and lessons learned, shall be provided to the Executive Director within one year and three months from the date of commencement of materials placement.	District Consultants
CDP	Other Authorizations	5	PRIOR TO CONSTRUCTION, the Permittee shall provide to the Executive Director written documentation of authorizations from all entities from which such authorization is necessary for the approved project (including at a minimum from San Mateo County, City of Half Moon Bay, California State Lands Commission, California Department of Fish and Wildlife, Monterey Bay National Marine Sanctuary, U. S. Army Corps of Engineers, and NOAA Fisheries) or evidence that no such authorizations are required from each of these entities. The Permittee shall inform the Executive Director of any changes to the project required by any other such authorizations. Any such changes shall not be incorporated into the project until the Permittee obtains a Commission amendment to this CDP, unless the Executive Director determines that no amendment is legally required.	District Consultants
CDP	Nesting Bird Protections		Nesting Birds Surveys For any construction work that would occur during the avian breeding season (i.e., January 15 to September 15), pre-construction surveys shall be completed by a qualified wildlife biologist with experience in observing reproductive and nesting behavior to identify displays of nesting behavior and/or active nests (i.e., as occupied by eggs or nestlings) in the proposed construction areas. The following shall apply: (a) Surveys must occur no more than 30 days prior to construction and weekly thereafter. (b)-(e) contain specific requirements and should be reviewed by selected biologist prior to conducting surveys. Also if needed see 3(b) 2 & 3 for Buffers and Disturbance protocols).	District Consultants
CDP	Nesting Bird Protections		A Nesting Birds Monitoring Report shall be provided to the Executive Director within 90 days of construction completion and shall include: all survey results and associated maps; along with a brief narrative describing the survey methods and observations of the species' tolerances to noise, vibration, and visual disturbance cues. If any incidents have resulted in a need for further consultation with the project biologist and/or the Executive Director, these will also be noted and discussed.	District Consultants
CDP	Property Owner/Easement Holder Consent		For any construction activities that may occur on properties (and/or on easements or similar legally defined areas) not owned by the Permittee, including but not limited to construction that requires equipment access on and/or across such other properties, the Permittee shall provide evidence of review, approval and consent from such property owners allowing such activities, where such consent shall only be deemed to have been given if the consent is for development consistent with the terms and conditions of the CDP, including as it affects such properties.	District Consultants
CDP	Additional Construction Habitat BMPs (Eelgrass)		A pre-construction eelgrass clearance survey for the project area shall be completed no more than 60 days prior to the beginning of construction and shall be valid until the next period of active eelgrass growth (typically April-October). The Permittee shall submit the pre-construction eelgrass survey for review and approval by the Executive Director within five business days of completion of each eelgrass survey and, in any event, no later than 15 business days prior to commencement of any construction activities.	District Consultants
CDP	Restoration		All construction debris shall be removed, and all beach area and other public recreational access and use areas and all beach access points impacted by construction activities shall be restored to their pre-construction condition or better within three days of completion of construction. Any native materials impacted shall be appropriately filtered as necessary to remove all construction debris.	Contractor District Consultants District Staff

CDP	Construction Site Documents		The Construction Plan shall provide that copies of the signed CDP and the approved Construction Plan be maintained in a conspicuous location at the construction job site at all times , and that such copies are available for public review on request. All persons involved with the construction shall be briefed on the content and meaning of the CDP and the approved Construction Plan, as well as the public review requirements applicable to them, prior to commencement of construction.	District Consultants in coordination with Contractor
CDP	Construction Coordinator		The Construction Plan shall provide that a construction coordinator be designated to be contacted during construction should questions arise regarding the construction (in case of both regular inquiries and emergencies), and that the construction coordinator's contact information (i.e., address, phone numbers, email, etc.), including, at a minimum, an email address and a telephone number that will be made available 24 hours a day for the duration of construction, is conspicuously posted at the job site where such contact information is readily visible from public viewing areas while still protecting public views as much as possible, along with indication that the construction coordinator should be contacted in the case of questions regarding the construction (in case of both regular inquiries and emergencies). The construction coordinator shall record the name and contact information (i.e., address, email, phone number, etc.) and nature of all complaints received regarding the construction, and shall investigate complaints and take remedial action, if necessary, within 24 hours of receipt of the complaint or inquiry. All complaints and all actions taken in response shall be summarized and provided to the Executive Director on at least a weekly basis.	District Consultants in coordination with Contractor
CDP	Construction Specifications		The construction specifications and materials shall include appropriate control provisions that require remediation for any work done inconsistent with the terms and conditions of this CDP.	District Consultants
CDP	Minor Adjustments		Minor adjustments to these special condition requirements which do not require a CDP amendment or new CDP (as determined by the Executive Director) may be allowed by the Executive Director if such adjustments: (1) are deemed reasonable and necessary; and (2) do not adversely impact coastal resources.	District Consultants
CDP	Assumption of Risk, Waiver of Liability, and Indemnity.		By acceptance of this CDP, the Permittee acknowledges and agrees, on behalf of itself and all successors and assigns: (a) that the project area is subject to coastal hazards, including but not limited to episodic and long-term shoreline retreat and coastal erosion, high seas, ocean waves, tidal scour, storms, tsunamis, coastal flooding, landslide, earth movement, and the interaction of all of these, many of which will worsen with future sea level rise; (b) to assume the risks to the Permittee and the properties that are the subject of this CDP of injury and damage from such hazards in connection with this permitted development; (c) to unconditionally waive any claim of damage or liability against the Commission, its officers, agents, and employees for injury or damage from such hazards; (d) to indemnify and hold harmless the Commission, its officers, agents, and employees with respect to the Commission's approval of the CDP 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; and (e) that any adverse effects to people or property caused by the permitted project shall be fully the responsibility of the Permittee.	District Staff

Yellow Highlight means must be completed Prior to Project Construction
Orange Highlight means Monitoring and/or Reporting Requirement

Regional Water Quality Control Board -- CWA Section 401 Water Quality Certification and Waste Discharge Requirement -

Expiration Date: November 30, 2030.

Monitoring Reports due: January 31, 2027 (yr 1)

Staff Contact: Tahsa.Sturgis@Waterboards.ca.gov

Source	Category	No.	Condition	Responsible Party(ies)
401 Cert.	Regulatory Compliance and Work Windows	2	The Permittee shall adhere to the conditions of the Project's CWA Section 404 Individual Permit (Corps File No. 2012-00207S), when issued by Army Corps.	Construction Contractor & District Consultants
401 Cert.	Regulatory Compliance and Work Windows	4	Precipitation forecasts shall be considered when planning construction activities. The Permittee shall monitor the 72- hour forecast from the National Weather Service at http://www.nws.noaa.gov . When there is a forecast of more than 40% chance of rain, or at the onset of unanticipated precipitation, the Permittee shall remove all equipment from waters of the State, implement erosion and sediment control measures (e.g., jute, straw, coconut fiber erosion control fabric, coir logs, straw), and cease all Project activities. If any construction activities will occur after October 15, a Winterization Plan shall be submitted to the Executive Officer for review and acceptance.	Construction Contractor & District Consultants
401 Cert.	Regulatory Compliance and Work Windows	5	To work beyond October 31, the Permittee must meet the precipitation and construction planning requirement specified in this Certification (see Condition 4), and the weather requirement listed in the Application's materials	
401 Cert.	General Construction	6	No unauthorized construction-related materials or wastes shall be allowed to enter into or be placed where they may be washed by rainfall or runoff into waters of the State. When construction is completed, any excess material shall be removed from the work area and any areas adjacent to the work area where such material may be discharged to waters of the State.	Construction Contractor
401 Cert.	General Construction	7	No fueling, cleaning, or maintenance of vehicles or equipment shall take place within waters of the State, or within any areas where an accidental discharge to waters of the State may occur; and construction materials and heavy equipment must be stored outside of waters of the State. When work within waters of the State is necessary, best management practices shall be implemented to prevent accidental discharges.	Construction Contractor
401 Cert.	General Construction	8	All work performed within waters of the State shall be completed in a manner that minimizes impacts to beneficial uses and habitat; measures shall be employed to minimize disturbances along waters of the State that will adversely impact the water quality of waters of the State. Disturbance or removal of vegetation shall not exceed the minimum necessary to implement the Project.	Construction Contractor & District Consultants
401 Cert.	Pre-Construction Reporting and Other Requirements	9	PRIOR TO CONSTRUCTION: The Permittee shall input Project information into EcoAtlas no later than 14 days from this Certification's issuance date, consistent with Section 4 herein. The Project information shall be added to the Project Tracker tool in EcoAtlas online at https://ptrack.ecoatlas.org . Instructions are available at https://ptrack.ecoatlas.org/instructions , or by contacting Water Board staff (Tahsa Sturgis (510) 622-2316; tahsa.sturgis@waterboards.ca.gov). The Permittee shall notify the Water Board and submit documentation demonstrating the Project has been successfully added to EcoAtlas via email to RB2-401Reports@waterboards.ca.gov	District Consultants COMPLETED 6/11/24
401 Cert.	Pre-Construction Reporting and Other Requirements	10	PRIOR TO CONSTRUCTION: The Permittee shall submit a Start of Construction (SOC) Report acceptable to the Executive Officer. The SOC Report shall be submitted no later than seven days prior to start of initial ground disturbance activities and notify the Water Board at least 48 hours prior to initiating in-water work and any stream diversions in any given Project year. Notification may be via telephone, email, delivered written notice, or other verifiable means. The SOC Report shall be submitted in same timeframe specified herein for multiple construction seasons, if necessary, via email to RB2-401Reports@waterboards.ca.gov , and include SOC_456550_Surfers Beach Pilot Restoration Project .	District Consultants
401 Cert.	Pre-Construction Reporting and Other Requirements	11	PRIOR TO CONSTRUCTION: Permittee shall establish a minimum of 10 photo-documentation points at each location where Project related impacts to waters of the State occur. The points shall be used to track the Project's construction impacts, the pre- and post-construction condition, and overall Project success. The Permittee shall prepare a site map with the photo- documentation points clearly marked. Prior to and following construction, the Permittee shall photographically document the immediate pre- and post-Project condition at locations where impacts to waters of the State occur, including temporary impacts. These post-construction photographs and map shall be submitted, along with the as-built and construction completion reports (See Conditions 12 and 13).	District Consultants

401 Cert.	Active Construction and Post-Construction Reporting Requirements	12	The Permittee shall prepare an as-built report acceptable to the Executive Officer. The as-built report shall be submitted to the Water Board no later than 60 days after completing Project construction activities, including revegetation. The report shall include a description of the areas of actual disturbance during Project construction and the photographs and map specified in Condition 11. The report shall clearly identify and illustrate the Project site, and the locations where impacts to waters of the State occurred. The as-built report shall include the 100 percent construction plans marked with the contractor's field notes that clearly depict any deviations made during construction from the designs reviewed by the Water Board. The as-built report shall be sent via email to RB2-401Reports@waterboards.ca.gov , and include As-Built_456550_Surfers Beach Pilot Restoration Project in the email subject line	Construction Contractor & District Consultants
401 Cert.	Active Construction and Post-Construction Reporting Requirements	13	The Permittee shall submit a Notice of Project Construction Completion (NOC) acceptable to the Executive Officer to notify the Water Board that the Project has been completed. The Completion Notice shall be submitted to the Water Board no later than 60 days after completing all Project construction activities. The Completion Notice shall include the as-built report, the post-construction photographs, the date of the first Project-related disturbance of waters of the State occurred, and the date construction was completed for each Project activity. The Completion Notice shall be sent via email to RB2-401Reports@waterboards.ca.gov and include NOC_456550_Surfers Beach Pilot Restoration Project in the email subject line	District Consultants
401 Cert.	Mitigation and Monitoring Requirements	14	The Permittee shall monitor the areas temporarily impacted created by the Project for a minimum 5-year period from the time that they are temporarily impacted and until the mitigation requirements specified herein are achieved, as described in the Pillar Point Harbor-Wide Eelgrass Management and Mitigation Plan (Marine Taxonomic Services, December 16, 2023) (Eelgrass Monitoring Plan) and the Surfer's Beach Pilot Restoration 5 Year Monitoring and Adaptive Management Plan (ESA, October 2023) (MAMP). The Permittee shall submit annual monitoring reports to the Water Board (see Condition 18) to demonstrate the Project's impacts have been sufficiently and appropriately mitigated and beneficial uses have not been adversely affected. If any signs of instability, inadequate restoration, or insufficient reestablishment are observed at the site, the Permittee shall document these observations in the annual reports and make recommendations for corrective actions, as necessary (see Condition 17). If any adverse impacts to waters of the State are observed during the monitoring period, compensatory mitigation may be required by the Executive Officer, including, but not limited to, extension of the monitoring period;	District Consultants
401 Cert.	Mitigation and Monitoring Requirements	15	Performance Criteria. The Permittee shall evaluate the Project's eelgrass mitigation site and beach nourishment area during the monitoring period by using the annual performance criteria in monitoring years 1 to 4 specified in the Eelgrass Monitoring Plan, MAMP, and as follows: a) Eelgrass Performance Criteria —as specified in the Monitoring Plan, the eelgrass mitigation site be assessed during the monitoring period using the following annual metrics for vegetation cover: <ul style="list-style-type: none"> Month 0: Full coverage distribution of planting units over the initial mitigation site shall be confirmed. Month 6: Persistence and growth of eelgrass in the initial mitigation site, and 50 percent survival of initial planting units and well distributed cover. Month 12: 40 percent eelgrass cover in the initial mitigation site, 20 percent density of adjacent reference areas, and no less than 1.2 times the area of the impact site. Month 36: 100 percent eelgrass cover in the initial mitigation site, 85 percent density of adjacent reference areas, and no less than 1.2 times the area of the impact site. Month 48: 100 percent eelgrass cover in the initial mitigation site, 85 percent density of adjacent reference areas, and no less than 1.2 times the area of the impact site. b) Erosion and Effects —as described in the MAMP, the monitoring shall document the Project performance in terms of persistence of the placed sand and apparent effects to coastal resources to support the consideration of future sand placements. During the monitoring period, the Permittee shall assess the following: Erosion Rates: The expected erosion of placed sand within the Project limit and estimated sand transportation patterns and rates shall be documented using topographic and bathymetric data collected during the monitoring period. The changes in sand volume shall be computed, and these data along with geometry changes will be used to infer sand transport directions and rates. During extreme wave and water level events, visual observations shall be conducted to document the changes with standardized forms. Depth Changes: the depth changes within PPH where dredging occurred shall be documented and the shoaling rates shall be estimated. Effects: the effects of the beach nourishment on vertical and horizontal beach access and surfing conditions shall be documented using standardized forms. The formation of scarps that impede access shall be documented, and as necessary, may require adaptive management actions.	District Consultants
401 Cert.	Mitigation and Monitoring Requirements	16	Final Success Criteria. The following final success criteria shall be documented in the final monitoring report and referenced in all other monitoring years to evaluate the site using the performance criteria: a) Eelgrass —the revegetation success shall be assessed during the monitoring period using the following: Month 60: 100 percent eelgrass cover in the initial mitigation site, 85 percent density of adjacent reference areas, and no less than 1.2 times the area of the impact site; b) Erosion and Effects —the beach nourishment at Surfes Beach shall be considered successful if the post-Project monitoring described in the MAMP is collected, shared with the regulatory agencies, used to inform future beach nourishment actions, and no adverse effects to waters of the State have otherwise occurred. The Project's mitigation shall be considered successful if the Executive Officer determines the final success criteria specified in Eelgrass Monitoring Plan, MAMP, and as specified herein, for the fifth and final monitoring year has been met and no adverse impacts to waters of the State have otherwise occurred.	District Consultants
401 Cert.	Mitigation and Monitoring Requirements	17	Corrective Actions: If any signs of instability, excessive erosion, or inadequate eelgrass recovery are observed at the eelgrass mitigation site or along the beach nourishment area, the Permittee shall document these observations in the annual reports and make corrective action/adaptive management recommendations, as necessary. After receipt of an annual monitoring report, if corrective actions/adaptive management actions are determined necessary by the Executive Officer, the Permittee shall be required to re-submit the corresponding annual report to include corrective actions/adaptative management actions, as necessary. The corrective actions/adaptive management actions shall not be implemented until they are approved by the Executive Officer.	District Consultants

401 Cert.	Mitigation and Monitoring Requirements	18	The Permittee shall submit annual monitoring reports, acceptable to the Executive Officer, by January 31 following each monitoring year's completion. The first monitoring year commences in the calendar year after the Project's temporarily impacted areas are restored after their initial disturbance. At the time of this Certification, the Project is anticipated to commence in 2025. Therefore, the first annual monitoring report shall be due on January 31, 2027, unless the Project is completed at a different time. Annual reports shall include, but not be limited to, the following: a) Photographs: photographs taken during the monitoring year from the photo-documentation points specified in Conditions 11 shall be included in each annual monitoring report and updated as appropriate. The photographs shall include captions with respect to the photograph's point of view, direction of flow, when applicable, locations of Project activities, location of the photo-documentation point, and date photographed. b) Activities and Impacts: the Project activities completed in the monitoring year and their respective impacts to waters of the State shall be included in each annual monitoring report. The final monitoring report shall include all Project activities and their impacts for the duration of the Project. The monitoring reports shall also reference the activities and impacts in relation to the limits covered in this Certification. If limits for any Project activity are exceeded, the Permittee may need to submit a report of waste discharge and shall be required to provide compensatory mitigation for the impacts to waters of the State that exceed the limits authorized in this Certification. c) Environmental Drivers: each monitoring report shall describe the precipitation events that occurred at the site during the monitoring year. The effects of the Project and environmental drivers (e.g., precipitation events, drought events) on site conditions shall be described in reference to the monitoring year's precipitation events. d) Cumulative Monitoring: each annual report shall summarize all data from previous monitoring reports in addition to the current year's monitoring data, including the need for, and implementation of, any remedial actions. Monitoring data may include all relevant qualitative and quantitative data necessary to determine whether the site is stable. The final monitoring report shall document whether the temporarily impacted areas were restored to their pre-Project condition.	District Consultants
401 Cert.	Mitigation and Monitoring Requirements	19	Notice of Mitigation Monitoring Completion. Within 30 days of successfully completing the required monitoring, the Permittee shall submit, acceptable to the Executive Officer, a Notice of Mitigation Monitoring Completion (NMMC) notifying the Water Board that monitoring has been completed. The Notice shall be submitted via email to RB2-401Reports@waterboards.ca.gov, or by mail to the attention of 401Certifications Reports. This notification shall include the date monitoring was completed, the Project Name, and reference NMMC_456550_Surfers Beach Pilot Restoration Project	
401 Cert.	Administrative and General Compliance	20	The Permittee shall grant Water Board staff or an authorized representative, upon presentation of credentials and other documents as may be required by law, permission to: (1) enter upon the Project site or compensatory mitigation site(s) where a regulated facility or activity is located or conducted, or where records are kept; (2) have access to and copy any records that are kept and are relevant to the Project or the requirements of this Order; (3) inspect any facilities, equipment, practices, or operations regulated or required under this Order; and (4) sample or monitor for the purposes of assuring Order compliance.	Construction Contractor, District Consultants & District Staff
401 Cert.	Administrative and General Compliance	21	A copy of the 401 Certification shall be provided to any consultants, contractors, and subcontractors working on the Project. Copies of this Order shall remain at the Project site for the duration of this Order. The Permittee shall be responsible for work conducted by its consultants, contractors, and any subcontractors.	Construction Contractor, District Consultants & District Staff
401 Cert.	Administrative and General Compliance	23	The Permittee shall notify the Water Board of any violations of water quality standards, along with the cause of such violations, as soon as practicable (ideally within 24 hours). Notification may be via telephone, email, delivered written notice, or other verifiable means.	Construction Contractor & District Consultants
401 Cert.	Administrative and General Compliance	24	In accordance with Water Code section 13260, the Permittee shall file with the Water Board a report of any material change or proposed change in the ownership, character, location, or quantity of this waste discharge. Any proposed material change in operation shall be reported to the Executive Officer at least 30 days in advance of the proposed implementation of any change. Changes to discharges include, but are not be limited to, significant new soil disturbances, proposed expansions of development, or any change in drainage characteristics at the Project site. For the purpose of this Order, this includes any proposed change in the boundaries of the area of wetland/waters of the State to be impacted.	District Consultants
401 Cert.	Annual Fees	31	In accordance with 23 CCR section 2200, the Permittee shall pay an annual fee to the Water Board each fiscal year (July 1 – June 30) until Project construction activities are completed and an acceptable Notice of Project Construction Completion is received by the Water Board. If monitoring is required, the Permittee shall pay an annual fee to the Water Board until monitoring activities are completed and an acceptable Notice of Mitigation Monitoring Completion is received by the Water Board (Note: the Annual Post Discharge Monitoring Fee may be changed by the State Water Board; at the time of Certification it was \$399 per year for Category E projects). Annual fees will be automatically invoiced to the Permittee. The Permittee must notify the Water Board at Project and mitigation completion with a final report in order to request to terminate annual billing. Notification shall reference NOT_456550_Surfers Beach Pilot Restoration Project and should be sent to the staff listed at the bottom of this Certification and to RB2-401Reports@waterboards.ca.gov. Water Board staff will verify the conditions of the Certification have been met and may request a site visit at that time to confirm the Project's status and compliance with the Certification (23 CCR sections 3833(b)(3) and 2200 (a)(3); CWC Section 13267).	District Staff District Consultants

Yellow Highlight means must be completed Prior to Project Construction
Orange Highlight means Monitoring and/or Reporting Requirement

Army Corps of Engineers -- CWA Section 404 and RHA Section 10 Permit <u>SPN-2012-00207</u>				
Expiration Date: June 20, 2029. Monitoring Reports Due : No annual reports required Staff Contact: Jessica.M.Vargas@usace.army.mil				
Source	Category	No.	Condition	Responsible Party(ies)
Permit # SPN-2012-00207	General Conditions	3	If you discover any previously unknown historic or archeological remains while accomplishing the activity authorized by this permit, you must immediately notify this office of what you have found. We will initiate the Federal and State coordination required to determine if the remains warrant a recovery effort or if the site is eligible for listing in the National Register of Historic Places.	Construction Contractor & District Consultants
Permit # SPN-2012-00207	General Conditions	8	You must allow representatives from this office to inspect the authorized activity at any time deemed necessary to ensure that it is being or has been accomplished in accordance with the Terms and Conditions of your permit.	Construction Contractor, District Consultants & District Staff

Permit # SPN-2012-00207	Special Conditions	1	This Corps permit does not authorize you to take a threatened or endangered species. In order to remain exempt from the prohibitions of Section 9 of the Endangered Species Act, you must comply with the incidental take authorization for the endangered Black abalone (<i>Haliotis cracherodii</i>) under the enclosed National Marine Fisheries Service (NMFS) Biological Opinion (BO) entitled, "Endangered Species Act Section 7(a)(2) Biological Opinion, and Magnuson-Stevens Fishery Conservation and Management Act Essential Fish Habitat Response for the Pillar Point Harbor Dredging and Surfer's Beach Restoration Project (Corps File No. SPN-2012-00207)," dated February 23, 2024. The BO contains mandatory terms and conditions to implement the reasonable and prudent measures that are associated with "incidental take" that is also specified in the BO. Your authorization under this Corps permit is conditional upon your compliance with all the mandatory terms and conditions associated with incidental take authorized by the attached BO, whose terms and conditions are incorporated by reference in this permit. Failure to comply with the terms and conditions associated with incidental take of the BO, where a take of the listed species occurs, would constitute an unauthorized take and it would also constitute non-compliance with this Corps permit. The NMFS is the appropriate authority to determine compliance with the terms and conditions of its BO and with the ESA.	District Consultants and Construction Contractor
Permit # SPN-2012-00207	Special Conditions	2	The Corps also initiated consultation with the National Marine Fisheries Service (NMFS) to address project related impacts to list species, pursuant to Section 7(a) of the Endangered Species Act of 1973, as amended (16 U.S.C. Section 1531 et seq.). By letter of February 23, 2024, the NMFS concurred with the determination that the project was not likely to adversely affect Central California Coast steelhead DPS (Oncorhynchus mykiss), North American green sturgeon southern DPS (<i>Acipenser medirostris</i>), Leatherback Turtle (<i>Dermochelys coriacea</i>), and their designated critical habitat. Additionally, NMFS concurred with the determination that the proposed for listing species, Sunflower sea star (<i>Pycnopodia helianthoides</i>), was not likely to be adversely affected by the proposed project. This concurrence was premised, in part, on project work restrictions outlined in the concurrence. Any mitigation measures, including survey requirements and/or timing and work restrictions are incorporated as Special Conditions to this authorization to ensure unauthorized incidental take of species and loss of critical habitat does not occur.	Construction Contractor & District Consultants
Permit # SPN-2012-00207	Special Conditions	3	The Corps also initiated consultation with the National Marine Fisheries Service (NMFS) to address project related impacts to Essential Fish Habitat (EFH) for Pacific Groundfish, Coastal Pelagic Species, and Pacific Coast Salmon, pursuant to Section 305(b)(4)(B) of the Magnuson-Stevens Fishery Conservation and Management Act, as amended (16 USC 1531 et seq.; 16 USC 1801, et seq.). NMFS concurred with our determination that the project would adversely affect EFH. Although adverse effects are anticipated as a result of the Project, the proposed minimization and avoidance measures, and best management practices described in the concurrence letter are sufficient to avoid, minimize, and/or mitigate for the anticipated effects. This concurrence was premised, in part, on the eelgrass mitigation plan outlined in the concurrence. The eelgrass mitigation plan, entitled "Pillar Point Harbor-Wide Eelgrass Management and Mitigation Plan," dated July 27, 2020 (Revised December 16, 2023), is incorporated as a Special Condition to this authorization to ensure loss of EFH within Pillar Point Harbor does not occur.	Construction Contractor & District Consultants
Permit # SPN-2012-00207	Special Conditions	4	The Corps initiated consultation with the United States Fish and Wildlife Service (USFWS) to address project related impacts to list species, pursuant to Section 7(a) of the Endangered Species Act of 1973, as amended (16 U.S.C. Section 1531 et seq.). By letter of December 28, 2022, the USFWS concurred with the determination that the project was not likely to adversely affect California least tern (<i>Sternula antillarum browni</i>), short-tailed albatross (<i>Phoebastria albatrus</i>), marbled murrelet (<i>Brachyrampus marmoratus</i>), Pacific Coast Distinct Population Segment of the western snowy plover (western snowy plover) (<i>Charadrius nivosus nivosus</i>), and southern sea otter (<i>Enhydra lutris nereis</i>). This concurrence was premised, in part, on project work restrictions outlined in the concurrence letter entitled, "Informal Consultation on the Pillar Point Harbor Dredging and Surfer's Beach Restoration Project, El Granada, San Mateo County, California (U.S. Army Corps of Engineers File No. SPN-2012-00207)," dated December 28, 2022. The Conservation Measures listed in the concurrence letter, including timing and work restrictions are incorporated as Special Conditions to this authorization to ensure unauthorized incidental take of species and loss of critical habitat does not occur.	Construction Contractor & District Consultants
Permit # SPN-2012-00207	Standard DMMO Conditions	1	Your use of the permitted activity must not interfere with the public's right to free navigation on all navigable waters of the United States.	Construction Contractor & District Consultants
Permit # SPN-2012-00207	Standard DMMO Conditions	2	You must have a copy of this permit available on the vessel used for the authorized transportation and disposal of dredged material.	Construction Contractor
Permit # SPN-2012-00207	Standard DMMO Conditions	3 & 12	PRIOR TO CONSTRUCTION: You must advise this office as per Special Condition 12, on page 3D, before you start dredging activities under the authorization of this permit. The permittee or dredge contractor shall inform this office when: 1) a dredge episode actually commences, 2) when dredging is suspended (suspension is when the dredge contractor leaves the dredge site for more than 48 hours for reasons other than equipment maintenance), 3) when dredging is restarted, and 4) when dredging is complete. Each notification should include the Corps permit number and dredge episode number. The information can be sent to the attention of Debra O'Leary, in writing to the address below; e-mailed to d11-spn-dmmo@usace.army.mil or via telephone message at (415) 503-6807.	Construction Contractor & District Consultants
Permit # SPN-2012-00207	Standard DMMO Conditions	4	PRIOR TO CONSTRUCTION: To provide notification of activities affecting navigation, the permittee shall provide the following information by fax, e-mail or standard mail to the contact listed below at least two weeks before commencing work: a. Name and telephone number of the dredge and or project manager. b. Size and placement of any floating construction equipment. c. Radio telephone frequencies and call signs of any marine equipment. d. Anticipated work start and completion dates. Commander (dpw) 11th Coast Guard District Coast Guard Island, Bldg 50-3 Alameda, California 94501-5100 POC: Local Notice to Mariners Waterways Management Branch PH: 510-437-2980 FAX: 510-437-5836 E-MAIL: D11LNM@uscg.mil	Construction Contractor & District Consultants
Permit # SPN-2012-00207	Standard DMMO Conditions	5	The Coast Guard Captain of the Port of San Francisco Bay may require modifications to marine construction equipment deployment or mooring systems to safeguard navigation while work is in progress.	Construction Contractor & District Consultants
Permit # SPN-2012-00207	Standard DMMO Conditions	7	Placement of dredged material at Surfer's Beach and the eelgrass mitigation site shall be done in accordance with all best management practices (BMP) to ensure pipelines do not create navigation hazards. <u>Pipelines running between dredge area and placement area should be clearly marked if the pipeline is within known navigation zones to avoid boat strikes.</u>	Construction Contractor & District Consultants

Permit # SPN-2012-00207	Standard DMMO Conditions	8	All vessels operated for dredging and disposal of dredged material are required to use the Dredging Quality Management (DQM) system unless a waiver has been provided. The DQM system shall be implemented for activities under this permit when the project activity is using dredging equipment. The Permittee's DQM system must have been certified by the National DQM Support Center (DQM Center) within one calendar year prior to the initiation of the dredging/discharge/placement of sediments. The Permittee is responsible for ensuring the DQM system is operational throughout the dredging and that the project data is submitted to the DQM Center in accordance with the specifications provided at the DQM website. Questions regarding codification and/or additional information about L3QM program should be addressed to the DQM Center at (877) 840-8024 and/or https://dqm.usace.army.mil .	Construction Contractor & District Consultants
Permit # SPN-2012-00207	Standard DMMO Conditions	9a	Dredge Material Analysis: Submit, for approval, no earlier than 60 days prior to the proposed commencement of any authorized successive dredging episodes, dredge material analysis (Physical, Chemical, and Biological) sampling and testing information. Please include the U.S. Army Corps of Engineers (Corps) permit number and dredge episode number with this submittal. Also submit Regional Water Quality Control Board (RWQCB) water quality certification or waiver for disposal of the material. For each dredging episode, the permittee shall obtain the approval of the District Engineer for formulating specific sediment testing procedures for the Dredged Material Analysis. The testing protocol will be in accordance with the testing guidelines as published in the Corps and U.S. Environmental Protection Agency publication entitled, "Evaluation of Dredged Material Proposed for Discharge in Waters of the U.S. - Testing Manual" (The Inland Testing Manual or ITM, EPA-823-B-98-004), dated February 1998, and subsequent amendments thereto. The permittee shall provide a copy of the Dredged Material Analysis to the U.S. Environmental Protection Agency, U.S. Fish and Wildlife Service, National Marine Fisheries Service, and California Department of Fish and Wildlife concurrent with the San Francisco Bay Conservation and Development Commission's RWQCB's, and the Corps' receipt of this information. Agency comments submitted to the Corps within 15 calendar days thereafter will be given full consideration in the decision on dredged material disposal. For 9a-9e, submit to the following address: U.S. Army Corps of Engineers, San Francisco District Chief, Operations and Readiness Branch Attn: Debra O'Leary 450 Golden Gate Avenue, 4th Floor, Room 1111 P.O. Box 36152 San Francisco, California 94102-3404	Construction Contractor & District Consultants
Permit # SPN-2012-00207	Standard DMMO Conditions	9b	PRIOR TO CONSTRUCTION: Dredge Operation Plan: Submit, for approval by this office, no earlier than 60 calendar days and no later than 20 calendar days before the proposed commencement of dredging, a plan which includes the following: Corps permit number, a copy of the dredging contract or description of the work under which the contractor will do the permitted work; name and telephone numbers of the dredging contractor's representative on site; dredging start and completion dates; names of vessel; dump scow numbers or identification; bin or barge capacities; identification of work as either maintenance dredging or new dredging; discussion of proposed dredging procedures, quantity of material to be removed; dredging design depth and typical cross section including overdepth; and date of last dredging episode and design depth. The Dredge Operational Plan shall also provide the following information: 1. The controls being established to ensure that dredging operations occur within the limits defined by the channel dimensions and typical channel section. The horizontal and vertical positioning systems being utilized must be indicated as noted in 3, below. 2. The controls being established to ensure that disposal of the dredged material at the placement site is at the assigned location and depth. The horizontal and vertical positioning systems being utilized must be indicated as noted in 3, below. 3. Method of determining electronic positioning of dredge or dump scow during entire dredging operation at dredge site, disposal site and en route to and from placement site.	Construction Contractor & District Consultants
Permit # SPN-2012-00207	Standard DMMO Conditions	9c	PRIOR TO CONSTRUCTION: Pre-Dredge Survey: Submit no earlier than 60 calendar days and no later than 20 calendar days before commencement of dredging, a survey with accuracy to one-tenth foot that delineates and labels the following: areas to be dredged with overdepth allowances; existing depths; estimated quantities to be dredged to the design depth; and estimated quantities to the overdepth limit. All surveys shall be signed by the permittee to certify their accuracy. Please include the Corps permit number and dredge episode number.	District consultants and District Staff
Permit # SPN-2012-00207	Standard DMMO Conditions	9d	PRIOR TO CONSTRUCTION: Solid Debris Management Plan: Submit no earlier than 60 calendar days and no later than 20 calendar days before commencement of work, a plan which describes measures to ensure that solid debris generated during any authorized dredging, demolition or construction operation is retained and properly disposed in areas not under Corps jurisdiction. At a minimum, the plan shall include the following: source and expected type of debris; debris retrieval method; Corps permit number and dredge episode number; disposal method and site; schedule of disposal operations; and debris containment method to be used, if floatable debris is involved.	Construction Contractor & District Consultants
Permit # SPN-2012-00207	Standard DMMO Conditions	9e	Post-Dredge Survey: Submit, within 30 days of the last disposal activity ("last" is defined as that activity after which no further activity occurs for 15 calendar days), a survey with accuracy to one-tenth foot that delineates and labels the areas dredged and the dredged depths. Also, include the Corps permit number, dredge episode number, dates of dredging commencement and completion, actual quantities dredged to the design depth, and actual quantities to the overdepth limit. The permittee shall substantiate the total quantity dredged by including calculations used to determine the volume difference. (in cubic yards) between the Pre- and Post-Dredging Surveys and explain any variation in quantities greater than 15% beyond estimated quantities or dredging deeper than is permitted (design plus overdepth allowance). All surveys shall be accomplished by a licensed surveyor and signed by the permittee to certify their accuracy. A copy of the Post-Dredge Survey should be sent to the National Ocean Service for chart updating: NOAA/National Ocean Service Nautical Data Branch N/CS26, SSMC3, Room 7230 1315 East-West Highway Silver Spring, Maryland 20910-3282.	Construction Contractor & District Consultants
			Yellow Highlight means must be completed Prior to Project Construction Orange Highlight means Monitoring and/or Reporting Requirement	
MBNMS/GFNMS National Marine Sanctuaries Permit - <u>MBNMS-2022-021</u>				
Expiration Date: November 30, 2030. Monitoring Reports due: September 1 (2026-2030). Annual reports due May 31 (2026-2030) Staff Contact: lilli.ferguson@noaa.gov				
Source	Category	No.	Condition	Responsible Party(ies)

Permit# MBNMS-2022-021	Special Terms and Conditions	1, 2, 3	1) No equipment may be discarded in the sanctuaries at any time. In the event that any equipment is damaged or lost due to weather or any other cause, the permittee shall immediately locate and remove that equipment. The permittee must notify GFNMS Permit Coordinator, Lilli Ferguson (Lilli.Ferguson@noaa.gov) at the earliest extent possible if any equipment is lost in the sanctuary. 2) Any plan of recovery for lost equipment that includes contact with the submerged lands would require approval from the sanctuary superintendent before implementation. 3)The permittee may be required to pay any or all expenses associated with the locating of and/or removal by NOAA or its designee of any equipment that is not recovered by the permittee.	Construction Contractor & District Consultants
Permit# MBNMS-2022-021	Special Terms and Conditions	4	No activity associated with this project shall disturb or have adverse impact on any historical resource (refer to 15 CFR 922.11 for definition of "historical resource") within the sanctuary. If historical resources are encountered at any time, the permittees shall cease all further activities under this permit and immediately contact GFNMS Permit Coordinator.	Construction Contractor & District Consultants
Permit# MBNMS-2022-021	Special Terms and Conditions	5	The permittee plans to remove accumulated sand from the pedestrian Coastal Trail pathway adjacent to the beach and deposit it within the sanctuary only once the sand there has accumulated to the point of becoming a nuisance for pedestrians. The permittee plans for this adaptive management activity to be done using a wheeled front-end loader; however other equipment and methods, including non-motorized equipment and tools, such as a wheelbarrows and shovels or brooms, may be used, so long as any that use is of limited duration and frequency.	District Consultants
Permit# MBNMS-2022-021	Special Terms and Conditions	6	PRIOR TO CONSTRUCTION: The permittee shall provide a draft biological monitoring plan for this project as soon as feasible to the individual listed in general term # 1 for review and input by national marine sanctuary staff members. In preparing the draft biological plan, consideration should be given to which species could be best utilized to assess changes from the project, include benthic macro (black abalone) and micro-invertebrates, marine algae, and/or fish species that make use of the inter and subtidal ranges at Surfers Beach and Vallejo Beaches; and to ground dwelling species (such as crabs, shorebirds, and other animals) and plants currently present in supratidal, shoreline, and uplands areas adjacent to the project site in the sanctuary. While the draft plan may cover the overall geographic range of the project, it shall clearly identify which of the activities are planned to take place within the boundaries of the sanctuary, including sampling activities. As appropriate, the permittee shall share with the sanctuary the feedback received on the draft plan.	District Consultants
Permit# MBNMS-2022-021	Special Terms and Conditions	7	PRIOR TO CONSTRUCTION: The permittee shall provide copies, once available, of the final biological baseline conditions report, final biological monitoring plan for the Surfer's Beach Pilot Restoration Plan, final "Surfer's Beach Pilot Restoration Project 5 Year Monitoring and Adaptive Management Plan", and any final information, if not contained within the specified plans, on samples planned for collection within the sanctuary, to the GFNMS Permit Coordinator. While the referenced documents may cover the geographic range of the overall project, they shall clearly identify which of the activities, including sample collection, are planned to take place within the boundary of the sanctuary. Monitoring plans shall cover the duration of the permit period. In addition, physical and biological monitoring plans for within the sanctuary shall include: a) Monitoring goals and objectives, including a description of how the results of monitoring activities will be used to assess sandy beach habitat restoration success. b)Monitoring methods and procedures, including: any activities to avoid or minimize any adverse impacts on sanctuary habitats and resources, monitoring frequency, figures depicting the planned monitoring areas and transects (if appropriate), and who will conduct the monitoring and their qualifications. c) Baseline monitoring (preconstruction), construction monitoring, and post construction monitoring to characterize beach profiles and hard/soft bottom habitats and selected species at the permitted location. Monitoring plans shall be designed to enable the measurement and characterization of physical and biological site conditions and changes in those conditions (to the extent feasible), including sand accretion or loss at the permitted location and shoreward at Surfers Beach and Vallejo Beach and characterization of and changes to the biological resources included in the final biological monitoring plan.	District Consultants
Permit# MBNMS-2022-021	Special Terms and Conditions	8	PRIOR TO CONSTRUCTION: The permittee shall submit annual monitoring reports for the specified Monitoring Periods (MPs) after the end of each MP to the individual listed in general term #1, as follows: • Monitoring Period (MP) 1 would commence at the preconstruction survey (spring 2025) and end on May 31, 2026, with the annual monitoring report for this period due by or before September 1, 2026; • MP 2 would be June 1, 2026 - May 31, 2027, with the annual monitoring report for this period due by or before September 1, 2027; • MP 3 would be June 1, 2027 - May 31, 2028; with the annual monitoring report for this period due by or before September 1, 2028; • MP 4 would be June 1, 2028 - May 31, 2029, with the annual monitoring report for this period due by or before September 1, 2029; and • MP 5 would be June 1, 2029 – November 30, 2030, with the annual monitoring report for this period due by or before March 1, 2031. The annual monitoring reports shall clearly identify which of the activities took place within the boundaries of the sanctuary, clearly identify the period of time each report covers, and include: a) baseline, construction and post construction monitoring results; b) information by date on samples collected, including: date(s); location(s) of collection(s) determined using GPS; type of sample; unit of measure of sample collection(s) and total samples collected (pertains to all sediment or biological samples collected as allowed under the permitted activity description); c) a summary of the cumulative changes relative to prior years and the initial monitoring baseline report; d) any monitoring plan deviations (i.e., changes in monitoring activities methods, or other changes to the plan); and e) if monitoring plan objectives are being or have been met. The Year 5 Monitoring Report should also include a summary of the 5-year monitoring efforts and lessons learned.	District Consultants

Permit# MBNMS-2022-021	Special Terms and Conditions	9	PRIOR TO CONSTRUCTION: The permittee shall submit brief annual summary reports of activities conducted under this permit as soon as feasible after the conclusion of each calendar year, or by or before May 31 each year. Reports covering permitted activities during calendar year 2025 are due by or before May 31, 2026; reports covering calendar year 2026 are due by or before May 31, 2027; reports for calendar year 2027 are due by or before May 31, 2028; reports for calendar year 2028 are due by or before May 31, 2029; and reports for calendar year 2029 are due by or before May 31, 2030. The reports shall be sent to the individual listed in general term #1. The summary reports shall include: a) Log of activities that took place during the report period. b) Final length and width of final overall sand slurry placement area, in a brief summary of the area depicted in the "as built" plans and submittal of those plans (first annual summary report) and total area of windblown sand placement area (in all annual summary reports). c) Quantity/volume of placed material (of sand slurry in first annual summary report, and of windblown sand in all annual summary reports). d) Maps of final sand slurry placement area and windblown sand placement areas which include the sanctuary boundary and habitats at placement areas. e) Changes in the beach profile (before and after placement of the material). f) Log of endangered/threatened species observed, or note none were observed. g) Reports of any disturbances to marine mammals or seabirds. h) Reports of the discovery or disturbance of historical resources within the sanctuary, any problems encountered, equipment lost, etc. If any equipment is lost, the report shall include the date, location and description of any equipment lost and left in the sanctuary with an explanation of efforts made to recover it and why the equipment was not recovered. If no project activities occurred during a given calendar year, that fact shall be noted in the report with an explanation of why that situation occurred.	District Consultants
Permit# MBNMS-2022-021	Special Terms and Conditions	10	The permittee shall ensure any construction vehicles, equipment, tools, and monitoring and surveying devices used within the sanctuary do not harbor any introduced species and shall prevent any introduced species from being released within or into the sanctuary.	Construction Contractor & District Consultants
		11	The permittee shall provide verbal notification, by calling the GFNMS/CBNMS Emergency Response Coordinator, Max Delaney, at (650) 678-4943, and leaving a message as necessary, of any information relating to noncompliance with this permit or other circumstances that may endanger or have a significant adverse effect on any sanctuary resources, habitats, or water quality, within 24 hours of the time the permittee becomes aware of such circumstances. The permittee shall also inform the GFNMS Permit Coordinator by email as soon as practicable following the initial telephone report. The permittee will subsequently keep the relevant sanctuary contacts informed of the status of, and response to, the reported circumstances.	District Consultants
			Yellow Highlight means must be completed Prior to Project Construction	
			Orange Highlight means Monitoring and/or Reporting Requirement	
National Marine Fisheries Service -- Biological Opinion - WCRO-2024-00086				
Expiration Date: June 20, 2029. Reports due: September 1 (2026-2030). Annual reports due May 31 (2026-2030) Staff Contact: thomas.wadsworth@noaa.gov			Monitoring	
Biological Opinion			A pre-construction survey to determine presence of black abalone within the action area will be conducted no sooner than 120 days prior to the start of in-water work on the Project. The survey is intended to focus on rock habitats near Surfer's Beach that may be buried under sediment during the beach nourishment component of the Project. This habitat is within the intertidal/subtidal zones at the northwest end of Surfer's Beach and includes the breakwater/jetty and rocks in just off the breakwater (Figure 3 and Figure 6 in BO). Surveys for black abalone will not be needed elsewhere in the action area as SMCHD agreed that dredging within the Harbor will not occur within 20 feet of rocks on the eastern breakwater and that any sediment placement that occurs in the west Harbor will not occur within 20 feet of rock habitat. Methodology for the black abalone survey will follow NMFS Protected Resources Division (PRD) guidelines, or will be otherwise approved by NMFS. If black abalone are observed during the survey, NMFS will be contacted to coordinate on AMMs before beginning any in-water work that could impact abalone.	Construction Contractor & District Consultants
Biological Opinion	Terms and Conditions	1(b)	Corps or the applicants will retain qualified Project biologist(s) knowledgeable of the needs of aquatic species, including black abalone. The Project biologist(s) will monitor the construction sites during all in-water activities. Monitoring will be performed daily.	District Consultants
Biological Opinion	Terms and Conditions	1(c) (d)	Mitigation for black abalone impacts - (c) If black abalone are found during the preconstruction survey or during construction activities, the Corps or applicant must contact NMFS to discuss relocation or avoidance procedures. Mitigation measures must be agreed upon by NMFS before in-water Project work can proceed. All relocation activities will be conducted by qualified personnel with the appropriate expertise and experience, to minimize black abalone injury and mortality. The applicant or Corps will provide names and experience of proposed personnel to NMFS for review 30 days before relocation efforts commence. (d) Relocation activities will include a minimum of six-month post-release monitoring to record survival, growth and movement of abalone.	Construction Contractor & District Consultants
Biological Opinion	Terms and Conditions	1(e)	During black abalone mitigation activities, the Project biologist shall contact NMFS staff at the number below, if injury or mortality of black abalone exceeds fifteen percent of the total collected. If any of these incidental take limits are exceeded, reinitiation of consultation may be needed (see Section 2.11). Tom Wadsworth (707) 243-8318, or Thomas.Wadsworth@noaa.gov	District Consultants
Biological Opinion	Terms and Conditions	2(a)	Black abalone pre-construction survey plan – The Corps or applicants must submit a black abalone pre-construction survey plan to NMFS for review. The survey plan should follow general abalone survey guidelines provided by NMFS, with adaptation as needed for the Project site. This survey plan shall be submitted electronically to NMFS biologist Tom Wadsworth at Thomas.Wadsworth@noaa.gov at least 30 days prior to the planned start of these activities.	District Consultants
Biological Opinion	Terms and Conditions	2(b)	Black abalone avoidance and relocation plan - if black abalone are found during the pre-construction survey, a relocation plan must also be submitted that provides general procedures to avoid effects to individuals, or relocate them from the project area. The relocation plan shall be submitted electronically to NMFS biologist Tom Wadsworth at Thomas.Wadsworth@noaa.gov at least 30 days prior to the planned start of these activities.	District Consultants
Biological Opinion	Terms and Conditions	2(c)	Annual Reporting – The Corps or the Applicant must prepare and submit annual reports to NMFS for Project activities as outlined below. Reports for (i) and (ii) below must be submitted by January 15 of the year following completion of relevant in-water Project activities. Report (iii) below, if applicable, should be submitted within six months after monitoring of relocated black abalone is complete. Reports should be submitted electronically to NMFS biologist Tom Wadsworth at Thomas.Wadsworth@noaa.gov. Reports prepared for compliance with other agency requirements that contain the information requested below would be acceptable. Annual reports must contain, at minimum, the following information: Black abalone capture and relocation; Construction related activities; Black abalone post-relocation monitoring (see 2(b)i, ii, and iii of BO for details)	District Consultants
Biological Opinion			Dredge methodology will be limited to suction dredging below the water line to reduce turbidity and other impacts on marine life; clam shell dredging would be allowed above the water line.	Construction Contractor
			Yellow Highlight means must be completed Prior to Project Construction	
			Orange Highlight means Monitoring and/or Reporting Requirement	