

**Final Environmental Impact Report
for the
Rincon Phase 2 Decommissioning Project**



**State Clearinghouse No. 2022100043
CSLC EIR Number: 815**

Lead Agency:
California State Lands Commission
100 Howe Avenue, Suite 100 South
Sacramento, California 95825

July 2024





MISSION STATEMENT

The California State Lands Commission provides the people of California with effective stewardship of the lands, waterways, and resources entrusted to its care based on the principles of equity, sustainability, and resiliency, through preservation, restoration, enhancement, responsible economic development, and the promotion of public access.

CEQA DOCUMENT WEBSITE

www.slc.ca.gov/ceqa/

Geographic Location (Center of Rincon Island)

Latitude: 34° 20' 51.04" N
Longitude: 119° 26' 43.30" W
NAD83 Datum

Cover Photo: Photo of Rincon Island and the Causeway
Looking Southwest from the Shoreline
(Photo courtesy of Padre Associates)

Document prepared in coordination with:



EXECUTIVE SUMMARY

BACKGROUND AND PROJECT LOCATION

Rincon Island and the Onshore Facility (along with the adjacent privately owned Coast Ranch parcel) were constructed in 1959 and used for oil and gas production. The California State Lands Commission (CSLC or Commission) historically issued leases to oil production companies for this purpose. In December 2017, Rincon Island Limited Partnership, the most recent lessee of these lands, quitclaimed (transferred) its lease interests (including State Oil and Gas Lease Nos. PRC 145, PRC 410, and PRC 1466) to CSLC after becoming financially insolvent. Thereafter, the State of California (State) pursued decommissioning of the oil and gas related facilities and final disposition of Rincon Island. Phase 1 of this process included the plugging and abandonment of all oil and gas wells and removal of service equipment at Rincon Island, the Onshore Facility, and the adjacent privately owned Coast Ranch parcel. Phase 1 activities were completed in June 2021, and the facilities are currently in “caretaker” status, meaning they do not require a full-time operator for safety or pollution prevention.

The first part of the Rincon Phase 2 Decommissioning Project (Project) was the development of the Rincon Phase 2 Decommissioning Feasibility Study (Feasibility Study) that was completed in July 2022. The Feasibility Study provided information from technical studies and public input to inform CSLC staff's recommendations to the Commission for a proposed Project to be evaluated in compliance with the California Environmental Quality Act (CEQA) ([Item 47, August 23, 2022](#)).

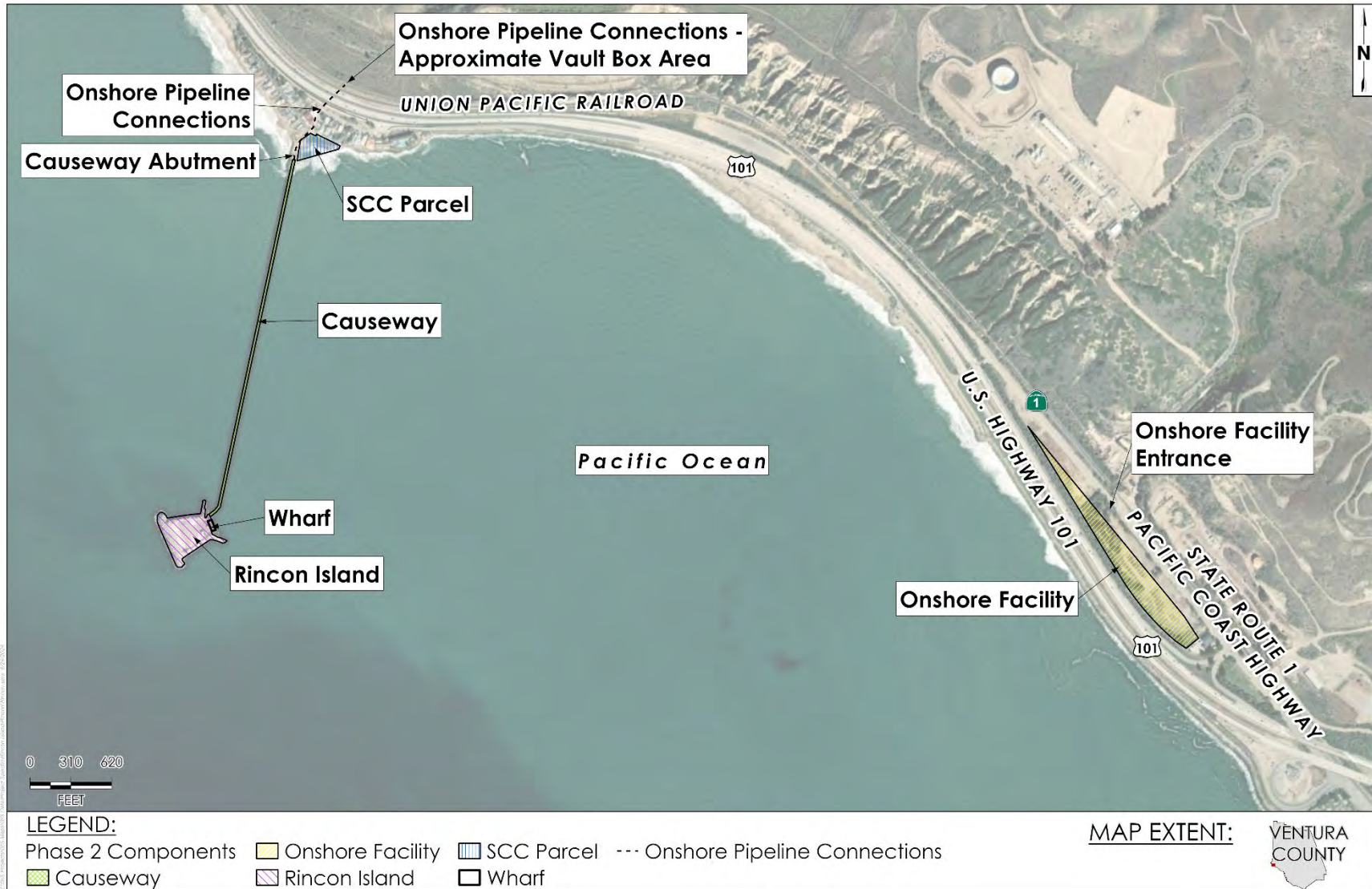
Rincon Island is located approximately 3,000 feet offshore of Punta Gorda in Ventura County, approximately 7 miles northwest of the city of Ventura, California. The Island is immediately offshore of the community of Mussel Shoals, and approximately 0.5 mile south of the community of La Conchita (Figure ES-1). The Island is located in approximately 55 feet of water. A causeway, or access pier, connects the Island to the coast. A State Coastal Conservancy (SCC) Parcel, included in the decommissioning analysis, is located just east of the causeway landing (abutment) within Assessor's Parcel Number (APN) 060-0-090-425. The associated Onshore Facility, that consists of a 6.01-acre parcel owned by the State, is located 1.3 miles to the east of Rincon Island at 5750 W. Pacific Coast Highway (PCH), Ventura. Rincon Island and the Onshore Facility were previously connected by a pipeline system, until they were disconnected as part

of the facility's oil and gas well plugging and abandonment process (Phase 1). Figure ES-2 provides an overview of the proposed Project sites.

Figure ES-1. Site Location Map



Figure ES-2. Project Sites Overview Map



PROJECT SUMMARY

The proposed Project analyzed within this Environmental Impact Report (EIR) would retain Rincon Island and the Rincon Island Causeway (causeway) in their current configuration. The proposed Project would consist of the following components:

Rincon Island Surface Facilities Removal and Remediation of Soils within the Island Core

- Island Surface Structure Removal
 - Option: Public Facilities Retention
- Island Well Bay Concrete Deck and Pavement Removal
- Contaminated Soil and Contaminated Interstitial Water Removal
- Transport of Materials to Offsite Disposal or Recycling Facility
- Backfill and Compaction with Clean Soil

Improvements on the State Coastal Conservancy (SCC) Parcel

Improvement of the SCC Parcel to enhance public access for recreational opportunities and installation of erosion reduction methods to prevent potential future loss of existing adjacent access roads to the beach and Rincon Island, as well as public access points on the SCC Parcel (by one of the following options):

- Option 1: Native Revegetation and Access Improvements
 - Removal of Non-Native Vegetation
 - Restoration with Native Vegetation (approximately 0.33 acre)
 - Walkway/Pathway Improvements
 - Installation of Visitor Amenities, including Seating and Signage
 - Installation of Beach Access Stairway at Eastern End of Parcel
 - Removal of Exposed Coastal Hazards, including Remnant Pipe and Concrete/Rebar, as Appropriate Along the Shoreline
- Option 2: All Components of Option 1, Plus Installation of a Cobble Back Berm
- Option 3: All Components of Option 1, Plus Installation of Riprap Along Parcel Frontage

Decommissioning of Onshore Pipeline Connections (OPC) within the Project Site

- Cleaning and Flushing of the 6-inch-diameter Oil and Gas Pipelines
- Filling the Pipelines with Cement Slurry from the Causeway Abutment to the Southern End of the Casing
- Removing Pipelines from the 30-inch-diameter Casing North to the Concrete Vault

- Filling the 30-inch-diameter Casing with Cement Slurry
- Transport of Materials to Offsite Disposal or Recycling Facility

Decommissioning of the Onshore Facility

- Remediation of Petroleum Hydrocarbon-contaminated Soil and Groundwater (by one of the following options):
 - Option 1: Surface Cap/Leave Contaminated Soil In-Place and In-Situ Groundwater Bioremediation
 - Option 2: Excavate Contaminated Soil (Dig and Haul) and Pump and Treat Groundwater Remediation
 - Option 3: Excavate Contaminated Soil (Onsite Soil Treatment and Bioremediation) and Pump and Treat Groundwater Remediation
 - Option 4: In-Situ Soil Mixing and In-Situ Groundwater Bioremediation
 - Option 5: Localized Excavation/Surface Cap Remainder and In-Situ Groundwater Bioremediation
- Transport of Contaminated Materials to Offsite Disposal or Recycling Facility (as applicable)
- Surface Grade Backfilled with Clean Imported Soil (as applicable)
- Final Site Restoration and Revegetation (as applicable)

PROJECT PURPOSE AND NEED

The Project purpose is to remediate and decommission the subject facilities in accordance with existing federal, state, and local laws and regulations. The proposed Project activities would be completed during Phase 3 (the timing of which is dependent on future funding) to prepare Rincon Island and the Onshore Facility to be leased for new uses, including but not limited to co-management with sovereign tribal nations, consistent with the Public Trust. The Project does not include proposals for future use, which is an unresolved issue at this time. Such future uses would be subject to additional review under CEQA.

SUMMARY OF ENVIRONMENTAL IMPACTS AND MITIGATION MEASURES

This EIR identifies potential significant impacts of the Project on the following environmental issue areas:

- Aesthetics
- Air Quality
- Biological Resources
- Cultural Resources
- Cultural Resources – Tribal
- Geology and Coastal Processes
- Greenhouse Gas Emissions
- Hazards and Hazardous Materials

- Hydrology and Water Quality
- Land Use and Planning
- Noise
- Recreation
- Transportation and Traffic
- Utilities and Service Systems
- Wildfire

Impacts within each affected environmental issue area are analyzed in relation to pertinent significance criteria. Impacts are classified as one of five categories:

- **Significant and Unavoidable:** A substantial or potentially substantial adverse change from the environmental baseline that meets or exceeds significance criteria, where either no feasible mitigation can be implemented, or the impact remains significant after implementation of mitigation measures.
- **Less than Significant with Mitigation:** A substantial or potentially substantial adverse change from the environmental baseline that can be avoided or reduced to below applicable significance criteria.
- **Less than Significant:** An adverse impact that does not meet or exceed the significance criteria of a particular resource area and, therefore, does not require mitigation.
- **Beneficial:** An impact that would result in an improvement to the physical environment relative to baseline conditions.
- **No Impact:** A change associated with the Project that would not result in an impact to the physical environment relative to baseline conditions.

Potential significant environmental impacts anticipated during the proposed Project implementation are discussed in Section 4.0, Environmental Impact Analysis. With the implementation of mitigation measures (MMs) identified in this EIR (see Table ES-1 at the end of this Executive Summary and Appendix K, Mitigation Monitoring Program [MMP]), the proposed Project would avoid significant impacts. CSLC staff or CSLC-contracted monitors would monitor Project implementation in accordance with the MMP.

SUMMARY OF ALTERNATIVES TO THE PROPOSED PROJECT

CEQA requires identification and evaluation in an EIR of a reasonable range of alternatives to a proposed project plus a “no project” alternative to allow decision makers to compare the impacts of approving a project with the

impacts of not approving a project. Pursuant to State CEQA Guidelines³ section 15126.6, subdivision (a), an EIR need only consider a range of feasible alternatives that would foster informed decision making and public participation; therefore, while an EIR need not consider every conceivable alternative, an EIR must include sufficient information about each alternative to allow meaningful evaluation, analysis, and comparison with the proposed Project. The range of potential alternatives that must be and are considered in this EIR is limited to those that would feasibly attain most of the Project objectives while avoiding or substantially reducing any of the significant effects of the Project. Alternatives that were considered but rejected are identified and accompanied by brief, fact-based explanations of the reasons for rejection. Among the factors that were used to eliminate alternatives from detailed consideration, as permitted by CEQA, are: (1) a failure to meet most of the proposed Project objectives; (2) infeasibility; or (3) inability to avoid significant impacts (State CEQA Guidelines, § 15126.6(c)).

The Rincon Phase 2 Decommissioning Feasibility Study (<https://slc.ca.gov/oil-and-gas/rincon-phase-2-decommissioning-feasibility-study/>), completed in July 2022, evaluated three Project scenarios (referred to in the Study as “Reefing,” “Reuse,” and “Removal” Alternatives) that included a number of Project components. As summarized in the Study findings, it was concluded that the Feasibility Study Reuse Alternative required the least number of tasks and would result in fewer temporary impacts associated with construction activities as compared to the other Alternatives. Based on this analysis, the Feasibility Study Reuse Alternative was chosen by the Commission ([Item 47, August 23, 2022](#)) to be further refined into the proposed Project being evaluated in this EIR. Because the Project was selected as a result of the Feasibility Study findings, which already included an alternatives analysis, there are no further reasonable alternatives that are available for consideration that would accomplish the basic objectives of the Project and avoid or substantially lessen any significant effects.

However, several different alternatives have been included in this analysis in order to present a full range of scenarios based on public and agency input received throughout the Feasibility Study and EIR scoping process. In some cases, these alternatives are included despite the potential for increased environmental impacts in order to provide the Commission, other responsible

³ The State CEQA Guidelines are found at California Code of Regulations, title 14, section 15000 et seq.

agencies, tribal nations, and the public with a thorough understanding of the tradeoffs of other alternatives that could be considered. Alternatives carried forward for analysis in this EIR are summarized below and in Table ES-2.

Reefing Alternative

The remaining structures and pavement on Rincon Island and the contaminated soil, including any remaining contamination in the well bay area, would be removed and replaced with clean fill (based on the results of the soil assessment activities, the depth of contaminated soil stops just below the depth of interstitial water in isolated areas) to an elevation and condition consistent with use of the remaining island structure as habitat for wildlife species. The well bay conductors, surrounding perimeter rock and tetrapods, as well as the submerged Island, would be left intact. Under the Reefing Alternative, the causeway, wharf, and abutment would be removed in their entirety with pilings removed to 5 feet below the seafloor. These facilities would be removed to return the offshore area to a more natural state. The riprap revetment that protects the abutment would be temporarily removed to allow abutment removal and would then be replaced in its original configuration. The Onshore Facility would be remediated and left in a condition acceptable for future Public Trust-consistent use, the SCC Parcel would be improved, and the OPC would be disconnected.

Abutment and Revetment Retention Alternative

The remaining structures and pavement on Rincon Island and the contaminated soil, including any remaining contamination in the well bay area, would be removed and replaced with clean fill (based on the results of the soil assessment activities, the depth of contaminated soil stops just below the depth of interstitial water in isolated areas). The well bay conductors, surrounding perimeter rock and tetrapods, as well as the submerged Island, would be left intact. The Island wharf and the abutment and riprap revetment at the landward end of the causeway would remain untouched, but the causeway would be completely removed, along with associated pilings to 5 feet below the seafloor. The causeway would be removed to return the offshore area to a more natural state, but the wharf on Rincon Island would be left intact for potential future boating access. The Onshore Facility would be remediated and left in a condition acceptable for future Public Trust-consistent use, the SCC Parcel would be improved, and the OPC would be disconnected.

Partial Causeway Removal Alternative

The remaining structures and pavement on Rincon Island and the contaminated soil, including any remaining contamination in the well bay area, would be removed and replaced with clean fill (based on the results of the soil assessment activities, the depth of contaminated soil stops just below the depth of interstitial water in isolated areas). The well bay conductors, surrounding perimeter rock and tetrapods, as well as the submerged Island, would be left intact. The Island wharf, abutment, and riprap revetment would also remain untouched, but a portion of the causeway would be removed, along with associated pilings to 5 feet below the seafloor. The remaining causeway would be reconfigured to provide a stable and safe “pier” structure extending from shore, but no longer connected to the island. Removal of a portion of the causeway would return the offshore area to a more natural state and also create a recreational facility for public use. The Onshore Facility would be remediated and left in a condition acceptable for future Public Trust-consistent use, the SCC Parcel would be improved, and the OPC would be disconnected.

Offshore Disposal Alternative (Rincon Island)

The remaining structures and pavement on Rincon Island and the contaminated soil, including any remaining contamination in the well bay area, would be removed and replaced with clean fill (based on the results of the soil assessment activities, the depth of contaminated soil stops just below the depth of interstitial water in isolated areas). The well bay conductors, surrounding perimeter rock and tetrapods, as well as the submerged Island, would be left intact. The Island wharf, abutment, and riprap revetment would also remain untouched. The existing causeway would be left intact. Instead of bringing waste material from the Island to shore via the causeway in trucks, the Offshore Disposal Alternative would provide for waste material generated from decommissioning activities at Rincon Island to be transported by offshore vessel for disposal or recycling at an onshore facility after it is unloaded at Port Hueneme to provide a significant reduction in traffic through the Mussel Shoals community. Additionally, the Onshore Facility would be remediated and left in a condition acceptable for future Public Trust-consistent use, the SCC Parcel would be improved, and the OPC would be disconnected.

ALTERNATIVES NOT CONSIDERED FOR FULL EVALUATION

Two alternatives that were evaluated in the Feasibility Study were not considered for full evaluation. The Full Removal of Rincon Island Alternative was

considered infeasible, had no environmental benefits over the proposed Project, and was eliminated from further consideration. The Rincon Island Surface Structure Removal and Foundation Replacement Alternative (identified as Component Plan 2A in the Feasibility Study) would significantly lessen impacts related to waste transport and disposal but would not meet the Project objective of remediating contamination on Rincon Island and was also eliminated from further consideration. The alternatives considered, but rejected, are listed below (see Section 5.3, Alternative Eliminated from Further Consideration, for further details).

- Full Removal of Rincon Island
- Rincon Island Surface Structure Removal and Foundation Replacement

ENVIRONMENTALLY SUPERIOR ALTERNATIVE DISCUSSION

Five alternatives were analyzed in detail in this EIR: the No Project Alternative, the Reefing Alternative, the Partial Causeway Removal Alternative, the Abutment and Revetment Retention Alternative, and the Offshore Disposal Alternative. Table ES-2 compares the environmental impacts associated with implementation of the proposed Project with the other alternatives. As discussed in Section 5.4.1, the No Project Alternative would not result in any new direct impacts to the environment. However, the remaining remediation activities on Rincon Island and the Onshore Facility would not be completed, therefore contamination would remain, and a primary Project objective would not be fulfilled. Because of ongoing environmental impacts due to soil and groundwater contamination if the decommissioning Project is not implemented, the No Project Alternative is not considered the environmentally superior alternative.

The State CEQA Guidelines section 15126.6, subdivision (e)(2) states, in part, that an EIR shall identify an environmentally superior alternative among the other alternatives if the “environmentally superior alternative is the ‘no project’ alternative.” Because the No Project Alternative is not considered the environmentally superior alternative, the State CEQA Guidelines do not require identification of an environmentally superior alternative among the remaining alternatives.

KNOWN AREAS OF CONTROVERSY OR UNRESOLVED ISSUES

Pursuant to State CEQA Guidelines section 15123, the EIR shall identify “areas of controversy known to the lead agency including issues raised by agencies and the public.” The proposed Project was selected based on preliminary analysis in

the Feasibility Study and information received from the public and resource agencies during their review of the Feasibility Study. One area identified as being potentially controversial during the Feasibility Study review process was the potential to disrupt existing recreational opportunities (surfing) present within the offshore Project site. Additionally, as acknowledged within the Feasibility Study and public comment, removal of the causeway would result in permanent impacts to biological resources. This conclusion was based on historically published studies, as recent surveys had not been conducted at that time. In response to these concerns, additional studies and analysis have been included within the EIR to address coastal processes, baseline surfing conditions, and biological resources associated with the causeway structure.

Another controversial issue surrounds the remediation of the Onshore Facility. As previously mentioned, the Onshore Facility parcel is located adjacent to the privately owned Coast Ranch parcel. These two parcels were both leased to the same oil companies to facilitate oil and gas production from State lands. The abandonment of the wells and oil facilities on the two parcels occurred during Phase 1. Although not considered a component of Phase 2 because it is privately owned, the Coast Ranch parcel (due to the configuration of the former oil and gas facility) has been determined to be the major source of contamination to the Onshore Facility parcel. The Coast Ranch parcel is adjacent to and upgradient from the Onshore Facility, and there is no physical barrier or separation between the two parcels – the parcels are contiguous, with interacting soils and groundwater. Therefore, the remediation plan for the Onshore Facility would need to consider what remediation activities are planned on the adjacent Coast Ranch parcel.

Finally, both the SCC and California Coastal Commission (CCC) noted in comments submitted during the Feasibility Study review and through participation in the Joint Review Panel (JRP) for preparation of the draft EIR that they encourage a return of the coastline to its natural state and reduction of the amount of added “hardscape” (such as cobble and riprap) along the coast, which may affect natural shoreline processes regarding erosion and sand movement downcoast. Because one of the draft EIR objectives is to provide the Commission with a full range of Project options to consider for protection of Public Trust resources and uses (including preservation of existing public access at the SCC Parcel and of roadways that provide access to Public Trust resources, such as the causeway to Rincon Island), and because the SCC and CCC have not issued any approvals or taken any actions on the final disposition of the SCC Parcel, SCC Parcel Options 2 and 3, which include the use of

hardscape, are retained in this document. Such inclusion allows for full consideration, comparison, and disclosure of options for preserving and improving the SCC Parcel and access from adjacent roads.

ORGANIZATION OF THE EIR

The EIR is presented in eight sections:

- **Section 1.0 – Introduction** provides background on the Project, previous related environmental review, and the CEQA process.
- **Section 2.0 – Project Description** describes the Project, its location, construction activities, monitoring, and schedule.
- **Section 3.0 – Cumulative Projects** identifies the projects that are analyzed for potential cumulative effects and the EIR's approach to cumulative impact analysis.
- **Section 4.0 – Environmental Impact Analysis** describes existing environmental conditions, impacts of the Project (including options considered), and mitigation measures, and evaluates cumulative impacts.
- **Section 5.0 – Project Alternatives Analysis** describes the alternatives screening methodology, alternatives screened from full evaluation, and alternatives carried forward for analysis, and analyzes impacts of each alternative carried forward.
- **Section 6.0 – Other Required CEQA Sections** addresses other required CEQA elements, including significant and irreversible environmental and growth-inducing impacts, comparison of the Project and alternatives, and a discussion of whether there is an environmentally superior alternative.
- **Section 7.0 – Other Commission Considerations** presents information relevant to the Commission's consideration of the Project that is in addition to the environmental review required pursuant to CEQA. These considerations include: (1) climate change and sea level rise (SLR); (2) commercial fishing (socioeconomics); (3) environmental justice; and (4) long-term maintenance costs and funding associated with the selected Project. Other considerations may also be addressed in the staff report presented at the time of the Commission's consideration of the proposed Project and alternatives.
- **Section 8.0 – Report Preparation Sources and References** lists the persons involved in preparation of the EIR and the reference materials used.

The EIR also contains the following Appendices:

- **Appendix A** – Public Scoping Documents
- **Appendix B** – Federal and State Regulations
- **Appendix C** – Project Distribution List
- **Appendix D** – Biological Studies
 - **Appendix D1** - UCSB Characterization of Marine Habitat
 - **Appendix D2** – Rincon Island Causeway Marine Biological Survey Report (Padre)
 - **Appendix D3** – Roosting Bird Survey Report (Padre)
 - **Appendix D4** – Terrestrial and Marine Special Status Species Table
 - **Appendix D5** – Plant List
- **Appendix E** – Assessment Reports
 - **Appendix E1** – Rincon Island Assessment Report (Padre)
 - **Appendix E2** – Onshore Facility Assessment Report (Padre)
- **Appendix F** – Phase 1 Archaeological Report (Padre)
- **Appendix G** – Coastal Processes Studies (Griggs)
 - **Appendix G1** - Potential Causeway Alternative Decommissioning Impacts
 - **Appendix G2** – Evaluation of Effects and Effectiveness of Three Different Treatments of SCC Parcel at Punta Gorda
- **Appendix H** – Surf Study (Coastal Frontiers)
- **Appendix I** - Air Quality and GHG Calculations
- **Appendix J** – Noise and Vibration Calculations
- **Appendix K** – Mitigation Monitoring Program

Table ES-1. Summary of Impacts: Proposed Project

Impact	Impact Class										
	Notes: B = Beneficial; LTS = Less than Significant; LTSM = Less than Significant with Mitigation; NI = No Impact, SU = Significant and Unavoidable Impact										
	Rincon Island	Rincon Island - Public Facilities Retention	SCC Parcel Option 1	SCC Parcel Option 2	SCC Parcel Option 3	Onshore Pipeline Connections	Onshore Facility Option 1	Onshore Facility Option 2	Onshore Facility Option 3	Onshore Facility Option 4	Onshore Facility Option 5
Section 4.1, Aesthetics											
Impact AES-1: Temporary Effects on Public Views from Decommissioning Activities	LTSM	LTSM	LTSM	LTSM	LTSM	LTSM	LTSM	LTSM	LTSM	LTSM	LTSM
Impact AES-2: Long-term Changes to Aesthetics as a Result of the Proposed Project	NI	NI	LTS/B	LTS/B	LTS/B	NI	LTS	LTS	LTS	LTS	LTS
Impact AES-3: Potential for Cumulative Aesthetic Impacts to Public Views	LTSM	LTSM	LTSM	LTSM	LTSM	LTSM	LTSM	LTSM	LTSM	LTSM	LTSM
Section 4.2, Air Quality											
Impact AQ-1: Decommissioning-related Air Pollutant Emissions	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS
Impact AQ-2: Cumulative Air Quality Impacts	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS
Section 4.3, Biological Resources											
Impact BIO-1: Temporary Disturbance to Foraging, Roosting, and Nesting Birds, including California Brown Pelican, Osprey, and Double-Crested Cormorant	LTS	LTS	LTS	LTS	LTS	NI	LTSM	LTSM	LTSM	LTSM	LTSM
Impact BIO-2: Temporary Effects to ESHA	NI	NI	LTS	LTS	LTS	NI	LTS	LTS	LTS	LTS	LTS

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	Rincon Island	Rincon Island - Public Facilities Retention	SCC Parcel Option 1	SCC Parcel Option 2	SCC Parcel Option 3	Onshore Pipeline Connections	Onshore Facility Option 1	Onshore Facility Option 2	Onshore Facility Option 3	Onshore Facility Option 4	Onshore Facility Option 5
Impact BIO-3: Temporary Impacts to Monarch Butterflies at the Onshore Facility	NI	NI	NI	NI	NI	NI	LTSM	LTSM	LTSM	LTSM	LTSM
Impact BIO-4: Temporary Impacts to Western Snowy Plover at the SCC Parcel	NI	NI	LTSM	LTSM	LTSM	NI	NI	NI	NI	NI	NI
Impact BIO-5: Temporary Impacts to Marine Mammals	LTS	LTS	LTS	LTS	LTS	NI	NI	NI	NI	NI	NI
Impact BIO-6: Cumulative Impacts to Biological Resources	LTS	LTS	LTSM	LTSM	LTSM	NI	LTSM	LTSM	LTSM	LTSM	LTSM
Section 4.4, Cultural and Historic Resources											
Impact CR-1: Potential Impacts to the Significance of a Historical Resource During Project Implementation	LTS	LTS	NI	NI	NI	NI	NI	NI	NI	NI	NI
Impact CR-2: Substantial Adverse Change to Previously Undiscovered Cultural Resources During Project Implementation	LTS	LTS	LTSM	LTSM	LTSM	LTSM	LTS	LTSM	LTSM	LTSM	LTSM
Impact CR-3: Cumulative Impacts to Cultural Resources	LTS	LTS	LTSM	LTSM	LTSM	LTSM	LTS	LTSM	LTSM	LTSM	LTSM
Section 4.5, Cultural Resources - Tribal											
Impact TCR-1: Substantial Adverse Change to	LTS	LTS	LTSM	LTSM	LTSM	LTSM	LTS	LTSM	LTSM	LTSM	LTSM

Impact	Impact Class										
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	Rincon Island	Rincon Island - Public Facilities Retention	SCC Parcel Option 1	SCC Parcel Option 2	SCC Parcel Option 3	Onshore Pipeline Connections	Onshore Facility Option1	Onshore Facility Option 2	Onshore Facility Option 3	Onshore Facility Option 4	Onshore Facility Option5
Previously Undiscovered Tribal Cultural Resources During Project Implementation											
Impact TCR-2: Cumulative Impacts to Tribal Cultural Resources	LTS	LTS	LTSM	LTSM	LTSM	LTSM	LTS	LTSM	LTSM	LTSM	LTSM
Section 4.6, Geology and Coastal Processes											
Impact GEO-1: Temporary Increase in Surface Erosion During Decommissioning and Soil Remediation Activities	LTSM	LTSM	LTSM	LTSM	LTSM	NI	LTS	LTSM	LTSM	LTSM	LTSM
Impact GEO-2: Paleontological Resources	NI	NI	NI	NI	NI	NI	NI	LTSM	LTSM	NI	LTS
Impact GEO-3: Geologic Hazards and Wave Exposure	NI	NI	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS
Impact GEO-4: Shoreline Stability and Littoral Transport	NI	NI	NI	LTS	LTS	NI	NI	NI	NI	NI	NI
Impact GEO-5: Cumulative Impacts to Geology and Coastal Processes	LTSM	LTSM	LTSM	LTSM	LTSM	LTS	LTS	LTSM	LTSM	LTSM	LTSM
Section 4.7, Greenhouse Gas Emissions											
Impact GHG-1: Decommissioning-related GHG Emissions	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS

Impact	Impact Class										
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	Rincon Island	Rincon Island - Public Facilities Retention	SCC Parcel Option 1	SCC Parcel Option 2	SCC Parcel Option 3	Onshore Pipeline Connections	Onshore Facility Option1	Onshore Facility Option 2	Onshore Facility Option 3	Onshore Facility Option 4	Onshore Facility Option5
Impact GHG-2: Project Contribution to Global Climate Change	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS
Section 4.8, Hazards and Hazardous Materials											
Impact HAZ-1: Release of Hazardous Materials During or Following Decommissioning Activities	LTSM	LTSM	NI	NI	NI	LTS	LTS/B	LTSM/B	LTSM/B	LTS/B	LTSM/B
Impact HAZ-2: Release of Hazardous Materials from Project Equipment and Machinery During Decommissioning Activities	LTSM	LTSM	LTSM	LTSM	LTSM	LTSM	LTSM	LTSM	LTSM	LTSM	LTSM
Impact HAZ-3: Potential Cumulative Hazardous Materials Impacts	LTSM	LTSM	LTSM	LTSM	LTSM	LTSM	LTSM	LTSM	LTSM	LTSM	LTSM
Section 4.9, Hydrology and Water Quality											
Impact HWQ-1: Construction-related Erosion and Sedimentation Impacts to Marine and Onshore Water Quality	LTSM	LTSM	LTSM	LTSM	LTSM	LTSM	LTSM	LTSM	LTSM	LTSM	LTSM
Impact HWQ-2: Construction-related Water Consumption Impacts on Groundwater Resources	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS

Impact	Impact Class										
	Notes: B = Beneficial; LTS = Less than Significant; LTSM = Less than Significant with Mitigation; NI = No Impact, SU = Significant and Unavoidable Impact										
	Rincon Island	Rincon Island - Public Facilities Retention	SCC Parcel Option 1	SCC Parcel Option 2	SCC Parcel Option 3	Onshore Pipeline Connections	Onshore Facility Option 1	Onshore Facility Option 2	Onshore Facility Option 3	Onshore Facility Option 4	Onshore Facility Option 5
Impact HWQ-3: Remediation and Discharge of Groundwater on of the Onshore Facility	NI	NI	NI	NI	NI	NI	LTS	LTS	LTS	LTS	LTS
Impact HWQ-4: Potential for Cumulative Water Quality Impacts	LTSM	LTSM	LTSM	LTSM	LTSM	LTSM	LTSM	LTSM	LTSM	LTSM	LTSM
Section 4.10, Land Use and Planning											
Impact LU-1: Temporary Conflicts with State and Local Policies	LTSM	LTSM	LTSM	LTSM	LTSM	LTSM	LTSM	LTSM	LTSM	LTSM	LTSM
Impact LU-2: Cumulative Impacts of Project Construction	LTSM	LTSM	LTSM	LTSM	LTSM	LTSM	LTSM	LTSM	LTSM	LTSM	LTSM
Section 4.11, Noise											
Impact N-1: Noise Impacts to Sensitive Receptors	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS
Impact N-2: Vibration Impacts to Residents and Structures	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS
Impact N-3: Cumulative Decommissioning Noise	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS
Section 4.12, Recreation											
Impact REC-1: Temporary Loss of Recreational Access to Beach and Ocean Areas Due to Onsite Project Activities	NI	NI	LTS	LTS	LTS	LTS	NI	NI	NI	NI	NI

Impact	Impact Class										
	Notes: B = Beneficial; LTS = Less than Significant; LTSM = Less than Significant with Mitigation; NI = No Impact, SU = Significant and Unavoidable Impact										
	Rincon Island	Rincon Island - Public Facilities Retention	SCC Parcel Option 1	SCC Parcel Option 2	SCC Parcel Option 3	Onshore Pipeline Connections	Onshore Facility Option 1	Onshore Facility Option 2	Onshore Facility Option 3	Onshore Facility Option 4	Onshore Facility Option 5
Impact REC-2: Temporary Interference with Recreational Traffic on Ventura Coastal Trail	LTSM	LTSM	LTSM	LTSM	LTSM	LTSM	LTSM	LTSM	LTSM	LTSM	LTSM
Impact REC-3: Permanent Changes to Recreational Access to Mussel Shoals Beach Area	NI	B	B	B	LTS	NI	NI	NI	NI	NI	NI
Impact REC-4: Cumulative Recreational Impacts	LTSM	LTSM	LTSM	LTSM	LTSM	LTSM	LTSM	LTSM	LTSM	LTSM	LTSM
Section 4.13, Transportation and Traffic											
Impact T-1: Decommissioning Vehicle Trip Generation and VMT	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS
Impact T-2: Contribution to Cumulative Vehicle Trip Generation and VMT	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS
Section 4.14, Utilities and Service Systems											
Impact US-1: Generation of Project Waste During Decommissioning Activities	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS
Impact US-2: Cumulative Generation of Waste that Would Affect Waste Receiving Facilities	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS	LTS
Section 4.15, Wildfire											
Impact WF-1: Temporary Increase in Risk to Wildfire During Decommissioning	NI	NI	LTS	LTS	LTS	LTSM	NI	NI	NI	NI	NI

Impact	Impact Class										
	Notes: B = Beneficial; LTS = Less than Significant; LTSM = Less than Significant with Mitigation; NI = No Impact, SU = Significant and Unavoidable Impact										
	Rincon Island	Rincon Island - Public Facilities Retention	SCC Parcel Option 1	SCC Parcel Option 2	SCC Parcel Option 3	Onshore Pipeline Connections	Onshore Facility Option1	Onshore Facility Option 2	Onshore Facility Option 3	Onshore Facility Option 4	Onshore Facility Option5
Activities Within an Area Designated as Very High Fire Hazard Severity Zone by CAL FIRE											
Impact WF-2: Cumulative Impacts to Potential Wildfire	NI	NI	LTS	LTS	LTS	LTSM	NI	NI	NI	NI	NI

Table ES-2. Comparison of Project Impacts by Site to Project Alternatives

IMPACT NUMBER*	Notes: B = Beneficial; LTS = Less than Significant; LTSM = Less than Significant with Mitigation; NI = No Impact, SU = Significant and Unavoidable Impact; "+" = more impact than the proposed Project; "-" = less impact than the proposed Project								
	Most Impactful Option at Proposed Project Site(s)				Project Alternatives				
	Rincon Island	SCC Parcel	Onshore Pipeline Connections	Onshore Facility	No Project Alternative	Reefing Alternative	Partial Causeway Removal Alternative	Abutment and Revetment Retention Alternative	Offshore Disposal Alternative
AESTHETICS									
AES-1	LTSM	LTSM	LTSM	LTSM	NI	LTSM+	LTSM+	LTSM+	SU
AES-2	NI	LTS/B	NI	LTS	NI	B	B	B	LTS
AES-3	LTSM	LTSM	LTSM	LTSM	NI	LTSM	LTSM	LTSM	SU
AIR QUALITY									
AQ-1	LTS	LTS	LTS	LTS	NI	LTS	LTS	LTS	LTS
AQ-2	LTS	LTS	LTS	LTS	NI	LTS	LTS	LTS	LTS
BIOLOGICAL RESOURCES									
BIO-1	LTS	LTS	NI	LTSM	NI	LTS+	LTS+	LTS+	LTS
BIO-2	NI	LTS	NI	LTS	NI	LTS+	LTS+	LTS+	LTSM+
BIO-3	NI	NI	NI	LTSM	NI	LTSM	LTSM	LTSM	LTSM
BIO-4	NI	LTSM	NI	NI	NI	LTSM	LTSM	LTSM	LTSM
BIO-5	LTS	LTS	NI	NI	NI	LTS+	LTS+	LTS+	LTS+
BIO-6	LTSM	LTSM	LTSM	LTSM	NI	LTSM	LTSM	LTSM	LTSM

IMPACT NUMBER*	Notes: B = Beneficial; LTS = Less than Significant; LTSM = Less than Significant with Mitigation; NI = No Impact, SU = Significant and Unavoidable Impact; "+" = more impact than the proposed Project; "-" = less impact than the proposed Project								
	Most Impactful Option at Proposed Project Site(s)				Project Alternatives				
	Rincon Island	SCC Parcel	Onshore Pipeline Connections	Onshore Facility	No Project Alternative	Reefing Alternative	Partial Causeway Removal Alternative	Abutment and Retention Retention Alternative	Offshore Disposal Alternative
CULTURAL AND HISTORIC RESOURCES									
CR-1	LTS	NI	NI	NI	NI	SU	SU	SU	LTS
CR-2	LTS	LTSM	LTSM	LTSM	NI	LTSM	LTSM	LTSM	LTSM
CR-3	LTS	LTSM	LTSM	LTSM	NI	LTSM	LTSM	LTSM	LTSM
CULTURAL RESOURCES - TRIBAL									
TCR-1	LTS	LTSM	LTSM	LTSM	NI	LTSM	LTSM	LTSM	LTSM
TCR-2	LTS	LTSM	LTSM	LTSM	NI	LTSM	LTSM	LTSM	LTSM
GEOLOGY AND COASTAL PROCESSES									
GEO-1	LTSM	LTSM	NI	LTSM	NI	LTSM	LTSM	LTSM	LTSM
GEO-2	NI	NI	NI	LTSM	NI	LTSM	LTSM	LTSM	LTSM
GEO-3	NI	LTS	LTS	LTS	NI	LTS	LTS	LTS	LTS
GEO-4	NI	LTS	NI	NI	NI	LTS	LTS	LTS	B
GEO-5	LTSM	LTSM	LTS	LTSM	NI	LTSM	LTSM	LTSM	LTSM
GREENHOUSE GAS EMISSIONS									
GHG-1	LTS	LTS	LTS	LTS	NI	LTS	LTS	LTS	LTS

IMPACT NUMBER*	Notes: B = Beneficial; LTS = Less than Significant; LTSM = Less than Significant with Mitigation; NI = No Impact, SU = Significant and Unavoidable Impact; "+" = more impact than the proposed Project; "-" = less impact than the proposed Project								
	Most Impactful Option at Proposed Project Site(s)				Project Alternatives				
	Rincon Island	SCC Parcel	Onshore Pipeline Connections	Onshore Facility	No Project Alternative	Reefing Alternative	Partial Causeway Removal Alternative	Abutment and Retention Retention Alternative	Offshore Disposal Alternative
GHG-2	LTS	LTS	LTS	LTS	NI	LTS	LTS	LTS	LTS
HAZARDS AND HAZARDOUS MATERIALS									
HAZ-1	LTSM	NI	LTS	B/ LTSM	NI	LTSM+	LTSM+	LTSM+	LTSM+
HAZ-2	LTSM	LTSM	LTSM	LTSM	NI	LTSM+	LTSM+	LTSM+	LTSM+
HAZ-3	LTSM	LTSM	LTSM	LTSM	NI	LTSM	LTSM	LTSM	LTSM
HYDROLOGY AND WATER QUALITY									
HWQ-1	LTSM	LTSM	LTSM	LTSM	SU	LTSM+	LTSM+	LTSM+	LTSM+
HWQ-2	LTS	LTS	LTS	LTS	NI	LTS	LTS	LTS	LTS
HWQ-3	LTS	NI	NI	LTS	NI	LTS	LTS	LTS	LTS
HWQ-4	LTSM	LTSM	LTSM	LTSM	NI	LTSM	LTSM	LTSM	LTSM+
LAND USE AND PLANNING									
LU-1	LTSM	LTSM	LTSM	LTSM	NI	LTSM	LTSM	LTSM	LTSM
LU-2	LTSM	LTSM	LTSM	LTSM	NI	LTSM	LTSM	LTSM	LTSM
NOISE									

IMPACT NUMBER*	Notes: B = Beneficial; LTS = Less than Significant; LTSM = Less than Significant with Mitigation; NI = No Impact, SU = Significant and Unavoidable Impact; "+" = more impact than the proposed Project; "-" = less impact than the proposed Project								
	Most Impactful Option at Proposed Project Site(s)				Project Alternatives				
	Rincon Island	SCC Parcel	Onshore Pipeline Connections	Onshore Facility	No Project Alternative	Reefing Alternative	Partial Causeway Removal Alternative	Abutment and Retention Retention Alternative	Offshore Disposal Alternative
N-1	LTS	LTS	LTS	LTS	NI	LTS+	LTS+	LTS+	LTS+
N-2	LTS	LTS	LTS	LTS	NI	LTS+	LTS+	LTS+	LTS+
N-3	LTS	LTS	LTS	LTS	NI	LTS	LTS	LTS	LTS+
RECREATION									
REC-1	NI	LTS	LTS	NI	NI	LTSM+	LTSM	LTSM	LTSM
REC-2	LTSM	LTSM	LTSM	LTSM	NI	LTSM+	LTSM+	LTSM+	LTSM-
REC-3	NI	LTS/B	NI	NI	NI	B	B	B	B
REC-4	LTSM	LTSM	LTSM	LTSM	NI	LTSM	LTSM	LTSM	LTSM
TRANSPORTATION AND TRAFFIC									
T-1	LTS	LTS	LTS	LTS	NI	LTS+	LTS+	LTS+	LTS
T-2	LTS	LTS	LTS	LTS	NI	LTS	LTS	LTS	LTS
UTILITIES AND SERVICE SYSTEMS									
US-1	LTS	LTS	LTS	LTS	NI	LTS+	LTS+	LTS+	LTS
US-2	LTS	LTS	LTS	LTS	NI	LTS	LTS	LTS	LTS
WILDFIRE									

IMPACT NUMBER*	Notes: B = Beneficial; LTS = Less than Significant; LTSM = Less than Significant with Mitigation; NI = No Impact, SU = Significant and Unavoidable Impact; "+" = more impact than the proposed Project; "-" = less impact than the proposed Project								
	Most Impactful Option at Proposed Project Site(s)				Project Alternatives				
	Rincon Island	SCC Parcel	Onshore Pipeline Connections	Onshore Facility	No Project Alternative	Reefing Alternative	Partial Causeway Removal Alternative	Abutment and Revetment Retention Alternative	Offshore Disposal Alternative
WF-1	NI	LTS	LTSM	NI	NI	LTSM	LTSM	LTSM	LTSM
WF-2	NI	LTS	LTSM	NI	NI	LTSM	LTSM	LTSM	LTSM

*Please see Table ES-1 for full text of each Impact number statement
 Full analysis of each Project Alternative is provided in Section 5

Table ES-3. Project Mitigation Summary

Impact	Recommended MMs
AESTHETICS	
Impact AES-1: Temporary Effects on Public Views from Decommissioning Activities	MM AES-1a: Overnight Storage of Equipment MM AES-1b: Material Removal at Construction Completion MM AES-1c: Minimize Night Lighting
Impact AES-2: Long-term Changes to Aesthetics as a Result of the Proposed Project	None Required
Impact AES-3: Potential for Cumulative Aesthetic Impacts to Public Views	MM AES-1a: Overnight Storage of Equipment MM AES-1b: Material Removal at Construction Completion MM AES-1c: Minimize Night Lighting
AIR QUALITY	
Impact AQ-1: Decommissioning-related Air Pollutant Emissions	MM AQ-1: Standard Ventura County Air Pollution Control District Construction Emissions Reduction Measures
Impact AQ-2: Cumulative Air Quality Impacts	MM AQ-1: Standard Ventura County Air Pollution Control District Construction Emissions Reduction Measures
BIOLOGICAL RESOURCES	
Impact BIO-1: Temporary Disturbance to Roosting, Foraging, and Nesting Birds, including California Brown Pelican, Osprey, and Double-Crested Cormorant	MM BIO-1a: Onshore Facility Nesting Season Avoidance or Pre-Construction Surveys MM BIO-1b: Environmental Awareness Training
Impact BIO-2: Temporary Effects to ESHA	None Required
Impact BIO-3: Temporary Impacts to Monarch Butterflies at the Onshore Facility	MM BIO-1b: Environmental Awareness Training MM BIO-3: Monarch Butterfly Avoidance

Impact	Recommended MMs
Impact BIO-4: Temporary Impacts to Western Snowy Plover at the SCC Parcel	MM BIO-1b: Environmental Awareness Training MM BIO-4: Pre-Activity Western Snowy Plover Survey
Impact BIO-5: Temporary Impacts to Marine Mammals	None Required
Impact BIO-6: Cumulative Impacts to Biological Resources	MM BIO-1a: Onshore Facility Nesting Season Avoidance or Pre-Construction Surveys MM BIO-1b: Environmental Awareness Training MM BIO-3: Monarch Butterfly Avoidance MM BIO-4: Pre-Activity Western Snowy Plover Survey
CULTURAL AND HISTORIC RESOURCES	
Impact CR-1: Potential Impacts to the Significance of a Historical Resource During Project Implementation	None Required
Impact CR-2: Substantial Adverse Change to Previously Undiscovered Cultural Resources During Project Implementation	MM CUL-1/TCR-1: Cultural and Tribal Cultural Resources Management and Treatment Plan MM CUL-2/TCR-2: Cultural and Tribal Cultural Resources Monitoring MM CUL-3/TCR-3: Cultural and Tribal Cultural Resources Awareness Training MM CUL-4/TCR-4: Discovery of Previously Unknown Cultural or Tribal Cultural Resources MM CUL-5/TCR-5: Unanticipated Discovery of Human Remains
Impact CR-3: Cumulative Impacts to Cultural Resources	MM CUL-1/TCR-1: Cultural and Tribal Cultural Resources Management and Treatment Plan MM CUL-2/TCR-2: Cultural and Tribal Cultural Resources Monitoring

Impact	Recommended MMs
	<p>MM CUL-3/TCR-3: Cultural and Tribal Cultural Resources Awareness Training</p> <p>MM CUL-4/TCR-4: Discovery of Previously Unknown Cultural or Tribal Cultural Resources</p> <p>MM CUL-5/TCR-5: Unanticipated Discovery of Human Remains</p>
CULTURAL RESOURCES - TRIBAL	
<p>Impact TCR-1: Substantial Adverse Change to Previously Undiscovered Tribal Cultural Resources During Project Implementation</p>	<p>MM CUL-1/TCR-1: Cultural and Tribal Cultural Resources Management and Treatment Plan</p> <p>MM CUL-2/TCR-2: Cultural and Tribal Cultural Resources Monitoring</p> <p>MM CUL-3/TCR-3: Cultural and Tribal Cultural Resources Awareness Training</p> <p>MM CUL-4/TCR-4: Discovery of Previously Unknown Cultural or Tribal Cultural Resources</p> <p>MM CUL-5/TCR-5: Unanticipated Discovery of Human Remains</p>
<p>Impact TCR-2: Cumulative Impacts to Tribal Cultural Resources</p>	<p>MM CUL-1/TCR-1: Cultural and Tribal Cultural Resources Management and Treatment Plan</p> <p>MM CUL-2/TCR-2: Cultural and Tribal Cultural Resources Monitoring</p> <p>MM CUL-3/TCR-3: Cultural and Tribal Cultural Resources Awareness Training</p> <p>MM CUL-4/TCR-4: Discovery of Previously Unknown Cultural or Tribal Cultural Resources</p> <p>MM CUL-5/TCR-5: Unanticipated Discovery of Human Remains</p>

Impact	Recommended MMs
GEOLOGY AND COASTAL PROCESSES	
Impact GEO-1: Temporary Increase in Surface Erosion During Decommissioning and Soil Remediation Activities	MM GEO-1: Grading and Erosion Control Plan MM AQ-1: Standard Ventura County Air Pollution Control District Construction Emissions Reduction Measures (Fugitive Dust Control) MM HWQ-1: Storm Water Pollution Prevention Plan
Impact GEO-2: Paleontological Resources	MM GEO-2: Paleontological Monitoring and Mitigation Plan
Impact GEO-3: Geologic Hazards and Wave Exposure	None Required
Impact GEO-4: Shoreline Stability and Littoral Transport	None Required
Impact GEO-5: Cumulative Impacts to Geology and Coastal Processes	MM GEO-1: Grading and Erosion Control Plan MM AQ-1: Standard Ventura County Air Pollution Control District Construction Emissions Reduction Measures (Fugitive Dust Control) MM HWQ-1: Storm Water Pollution Prevention Plan
GREENHOUSE GAS EMISSIONS	
Impact GHG-1: Decommissioning-related GHG Emissions	None Required
Impact GHG-2: Project Contribution to Global Climate Change	None Required
HAZARDS AND HAZARDOUS MATERIALS	
Impact HAZ-1: Release of Hazardous Materials During or Following Decommissioning Activities	MM HAZ-1a: Remedial Action Plan Implementation MM HAZ-1b: Hydrocarbon Contaminated Soil Notification(s) and BMPs

Impact	Recommended MMs
	MM HAZ-1c: Oil Spill Contingency Plan Implementation MM HAZ-1d: Hazardous Materials Management and Contingency Plan MM HAZ-1e: Asbestos Abatement Workplan MM HWQ-1: Storm Water Pollution Prevention Plan
Impact HAZ-2: Release of Hazardous Materials from Project Equipment and Machinery During Decommissioning Activities	MM HAZ-1c: Oil Spill Contingency Plan Implementation MM HAZ-1d: Hazardous Materials Management and Contingency Plan
Impact HAZ-3: Potential Cumulative Hazardous Materials Impacts	MM HAZ-1a: Remedial Action Plan Implementation MM HAZ-1b: Hydrocarbon Contaminated Soil Notification(s) and BMPs MM HAZ-1c: Oil Spill Contingency Plan Implementation MM HAZ-1d: Hazardous Materials Management and Contingency Plan MM HAZ-1e: Asbestos Abatement Workplan MM HWQ-1: Storm Water Pollution Prevention Plan
HYDROLOGY AND WATER QUALITY	
Impact HWQ-1: Construction-related Erosion and Sedimentation Impacts to Marine and Onshore Water Quality	MM HWQ-1: Storm Water Pollution Prevention Plan
Impact HWQ-2: Construction-related Water Consumption Impacts on Groundwater Resources	None Required
Impact HWQ-3: Remediation and Discharge of Groundwater on the Onshore Facility	None Required
Impact HWQ-4: Potential for Cumulative Water Quality Impacts	MM HWQ-1: Storm Water Pollution Prevention Plan

Impact	Recommended MMs
LAND USE AND PLANNING	
<p>Impact LU-1: Temporary Conflicts with State and Local Policies</p>	<p>MM AES-1a: Overnight Storage of Equipment MM AES-1b: Material Removal at Construction Completion MM AES-1c: Minimize Night Lighting MM AQ-1: Standard Ventura County Air Pollution Control District Construction Emissions Reduction Measures MM BIO-1a: Onshore Facility Nesting Season Avoidance or Pre-Construction Surveys MM BIO-1b: Environmental Awareness Training MM BIO-3: Monarch Butterfly Avoidance MM BIO-4: Pre-Activity Western Snowy Plover Survey MM CUL-1/TCR-1: Cultural and Tribal Cultural Resources Management and Treatment Plan (CRMTP) MM CUL-2/TCR-2: Cultural and Tribal Cultural Resources Monitoring MM CUL-3/TCR-3: Cultural and Tribal Cultural Resources Awareness Training MM CUL-4/TCR-4: Discovery of Previously Unknown Cultural or Tribal Cultural Resources MM CUL-5/TCR-5: Unanticipated Discovery of Human Remains MM GEO-1: Grading and Erosion Control Plan MM GEO-2: Paleontological Monitoring and Mitigation Plan MM HAZ-1a: Remedial Action Plan Implementation MM HAZ-1b: Hydrocarbon Contaminated Soil</p>

Impact	Recommended MMs
	Notification(s) and BMPs MM HAZ-1c: Oil Spill Contingency Plan Implementation MM HAZ-1d: Hazardous Materials Management and Contingency Plan MM HAZ-1e: Asbestos Abatement Workplan MM HWQ-1: Storm Water Pollution Prevention Plan MM NOI-1: Notification of Work Activities Posted at Mussel Shoals MM REC-1: Recreational Site Access and Traffic Management Plan MM WF-1a: Fire Management and Prevention Plan MM WF-1b: Ventura County Noticing Requirements
Impact LU-2: Cumulative Impacts of Project Construction	Same as Above
NOISE	
Impact N-1: Noise Impacts to Sensitive Receptors	None Required
Impact N-2: Vibration Impacts to Residents and Structures	None Required
Impact N-3: Cumulative Decommissioning Noise	None Required
RECREATION	
Impact REC-1: Temporary Loss of Recreational Access to Beach and Ocean Areas Due to Onsite Project Areas	None Required
Impact REC-2: Temporary Interference with Recreational Traffic On Ventura Coastal Trail	MM REC-1: Recreational Site Access and Traffic Management Plan

Impact	Recommended MMs
Impact REC-3: Permanent Changes to Recreational Access to Mussel Shoals Beach Area	None Required
Impact REC-4: Cumulative Recreational Impacts	MM REC-1: Recreational Site Access and Traffic Management Plan
TRANSPORTATION AND TRAFFIC	
Impact T-1: Decommissioning Vehicle Trip Generation and VMT	MM REC-1: Recreational Site Access and Traffic Management Plan
Impact T-2: Contribution to Cumulative Vehicle Trip Generation and VMT	MM REC-1: Recreational Site Access and Traffic Management Plan
UTILITIES AND SERVICE SYSTEMS	
Impact US-1: Generation of Project Waste During Decommissioning Activities	None Required
Impact US-2: Cumulative Generation of Waste that Would Affect Waste Receiving Facilities	None Required
WILDFIRE	
Impact WF-1: Temporary Increase in Risk to Wildfire During Decommissioning Activities Within an Area Designated as Very High Fire Hazard Severity Zone by CAL FIRE	MM WF-1a: Fire Management and Prevention Plan MM WF-1b: Ventura County Noticing Requirements
Impact WF-2: Cumulative Impacts to Potential Wildfire	MM WF-1a: Fire Management and Prevention Plan MM WF-1b: Ventura County Noticing Requirements