

**CALIFORNIA COASTAL COMMISSION**

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**W6d**

**LCP Grant Program Recommendation**

**September 6, 2023**

**EXHIBITS**

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COUNTY OF SANTA CRUZ  
SEA LEVEL RISE VULNERABILITY ASSESSMENT  
AND  
LOCAL COASTAL PROGRAM AMENDMENT

CALIFORNIA COASTAL COMMISSION  
LCP LOCAL ASSISTANCE GRANT PROGRAM  
**COMPETITIVE GRANT APPLICATION FORM**

JULY 2023

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# APPLICATION FORM

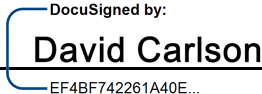
## APPLICANT INFORMATION

Applicant name (agency): County of Santa Cruz	
Address: 701 Ocean St., 4 <sup>th</sup> Floor, Santa Cruz, CA 95060	
Primary Contact name: David Carlson	Title: Resource Planner
Telephone: (831) 427-0946	Fax: (831) 454-2131
Email: <a href="mailto:david.carlson@santacruzcounty.us">david.carlson@santacruzcounty.us</a>	
Federal Tax ID#: 94-60000534	

Person authorized to sign grant agreement, amendments, and Request for Funds:	
Name: Matt Machado	Title: Deputy County Administrative Officer/Director Community Development and Infrastructure Department
Telephone: (831) 454-2160	Email: <a href="mailto:matt.machado@santacruzcounty.us">matt.machado@santacruzcounty.us</a>

## PROJECT INFORMATION

<b>Project Title:</b> Coastal Hazards Sea Level Rise Vulnerability Assessment	
<b>LCP/LCP Segment:</b> Public Safety Element – Coastal Hazards Section	
<b>Project Location</b>	
City/Geographic area: Unincorporated coastal areas	
County: Santa Cruz	
<b>Project Timeline</b>	
Start date: 01/01/2024 (approx.)	End date: 9/30/2026

Signature: \_\_\_\_\_  \_\_\_\_\_ Date: 8/3/2023

### Budget Summary

CCC funding	\$780,000*
Other funding	\$**
<u>Total project costs</u>	<u>\$780,000</u>

- \* County staff time included in grant budget
- \*\* Additional County staff time absorbed in CDI Planning budget

**Term of Project:** 2024 – 2026 (maximum 33 months)

# PROJECT PROPOSAL

## PROJECT DESCRIPTION

The proposed project is a sea level rise vulnerability assessment and Local Coastal Program Amendment that will provide technical analyses related to coastal hazard vulnerabilities, economics, and adaptation planning for the unincorporated Santa Cruz County coastline. The project will analyze adaptation approaches at the countywide and neighborhood scale, including phased adaptation pathways. A robust multi-modal outreach effort will reach out to and include a wide range of stakeholders including property owners, neighborhood groups, environmental non-profits, community-based organizations, business concerns and representatives, surfers/ocean recreation, design professionals and technical professionals. The outreach plan will include efforts to ensure participation by low-income communities, indigenous communities, communities of color, and other marginalized communities. The evaluation of adaptation options will consider impacts to coastal environments with respect to public access and lower-cost recreational opportunities for historically marginalized communities where those coastal environments have been or are projected to be damaged for the benefit of wealthier communities. Recommendations in the final report will feed into an update to the LCP Land Use Plan (LUP) and Implementation Plan (IP) provisions that relate to coastal hazards, including in terms of response, adaptation, and resiliency, along the County's roughly 32 miles of coastal zone shoreline.

The project is of Statewide significance in that many local jurisdictions have completed sea level rise vulnerability assessments and some common themes and lessons learned have emerged. According to the Coastal Commission's *Statewide Sea Level Rise Vulnerability Synthesis*, most vulnerability assessments rely on the best available science on sea level rise, but the analyses tend to be focused on the threat to the built environment. This project proposes a comprehensive approach to vulnerability assessment including the threats to the built environment and to coastal resources, such as beaches, coastal access and recreation, and the outreach component will educate the public, decision makers and other key stakeholders about likely future impacts from sea level rise to ensure decisions reflect a broad understanding of future impacts and address the needs of all people equally. Key to this approach is the proposed economic analysis of a range of adaptation strategies to provide information on the costs and benefits of various adaptation pathways. Accordingly, the County will be soliciting a consultant team that possesses the resources and expertise to conduct the physical and economic analysis, communicate and obtain feedback on the results, and provide related policy recommendations to advance a successful LCP Amendment.

The goals and objectives of the project are intended to provide detailed and comprehensive information on sea level rise vulnerability, communicate that information to a wide range of stakeholders, and develop adaptation strategies and related policy recommendations consistent with the Coastal Act. The analysis will include economic valuations of physical infrastructure threatened from sea level rise and the non-market coastal resources such as beaches, coastal access, and coastal recreation resources also threatened by sea level rise. A

range of adaptation options will be analyzed using the economic and fiscal information developed as part of the vulnerability analysis to demonstrate the relative costs and benefits of various adaptation strategies. Environmental justice/equity is represented in this type of analysis in that it incorporates the value of beaches and coastal access as a low-cost recreational resource for lower income stakeholders. Based on the analysis of various adaptation strategies, adaptation pathways will be developed for each neighborhood. The project will include a report on the various financial mechanisms that might be available to finance the adaptation strategies.

The outreach plan for the project will expand key stakeholder and community engagement relative to previous LCP planning efforts related to sea level rise vulnerability, including outreach to historically marginalized communities. In accordance with the Coastal Commission's Environmental Justice Policy, the project will address environmental justice in terms of meaningful engagement in the process and fair treatment in evaluation of impacts. With reference to Task 3 Stakeholder Engagement, the outreach plan shall include efforts to ensure participation by low-income communities, indigenous communities, communities of color, and other marginalized communities. With reference to Tasks 7, 8 and 9, the evaluation of adaptation options shall consider impacts to coastal environments with respect to equitable public access and lower-cost recreational opportunities for historically marginalized communities where those coastal environments have been or are projected to be damaged for the benefit of wealthier communities.

Ongoing coordination with Coastal Commission staff is proposed at all phases of the project to foster a partnership that results in an LCP Amendment addressing coastal hazards that can be approved by the Coastal Commission. The vulnerability assessment will include analysis at both neighborhood and regional scale. The final phase of the project will be a compilation of the work and reporting completed and will include recommendations for the policy updates necessary in an LCP Amendment addressing coastal hazards that can be approved by the Coastal Commission. As part of the final phase of the project, County staff will incorporate the policy recommendations into an update to the LCP Land Use Plan (LUP) and Implementation Plan (IP) provisions that relate to coastal hazards and submittal of the LCP amendment package to Coastal Commission staff.

## **TASK DESCRIPTIONS**

### **Task 1 – Project Management**

This task involves County staff resources related to issuing an RFP for consultant assistance, directing the consultant team, and administration of the consultant contract and Commission grant. County staff project lead will be David Carlson, Resource Planner, County of Santa Cruz, Department of Community Development and Infrastructure.

Deliverables:

- RFPs and contracts for consultants
- Quarterly Grant Progress Reports and Requests for Funds

### **Task 2. Kickoff Meetings**

The County and Consulting Team will hold a kick-off meeting internally with Department Heads and key staff to determine communication protocols, discuss data needs, stakeholder advisory group membership and protocols and confirm overall project approach and schedule. Another kick off meeting will be held with Coastal Commission staff. Results of this will inform a subsequent kick-off meeting with the stakeholder advisory group to be held within 1 month from final contracting.

Deliverables:

- County and consultant team kickoff meeting materials
- County and Coastal Commission staff kickoff meeting materials
- Stakeholder advisory group kickoff meeting materials

### **Task 3. Stakeholder Engagement**

The stakeholder engagement process will solicit feedback from the community on their priorities and vision by including a broad cross section of community members and stakeholder groups. The goal of the outreach plan is to find the common ground among the various stakeholders that can be reflected in a coastal hazards LCP Amendment that achieves consistency with the Coastal Commission’s Sea Level Rise Policy Guidance. This will not be an easy task and it is not necessarily essential to a successful outcome for this project. A key element of the outreach plan will be to communicate the technical information developed as part of this project to create an understanding of the nature of the coastal hazard facing the community now and in the future.

Develop an outreach plan that describes how community members, Tribes, stakeholder and neighborhood groups will be involved at key steps in the project and the various methodologies that will be employed to communicate technical and policy-related information and solicit feedback. The plan must reflect an equitable approach to the outreach process by describing particular efforts to include community members and stakeholder groups that have not been represented in past LCP planning efforts related to coastal hazards, including but not limited to economically and socially disadvantaged or underrepresented community members, and ocean and beach user groups and organizations. Tribal engagement will be consistent with the Coastal

Commission's Tribal Engagement Policy. It is envisioned the plan will include various types of meetings from one-on-one, small group, and online community meetings. In coordination with the technical consultant(s) organize the meetings and other outreach methodologies at key phases of the project to receive feedback needed to integrate into and support the next phase of the project.

A stakeholder advisory group (SAG) is a way to help guide the project and maintain communication between the community, the technical project team and the County. The SAG process is envisioned as a representative group of people committed to engaging throughout the project with a thorough understanding of the technical and policy information, and the key issues. The outreach consultant will need to work with the technical and policy consultant team to organize and design the SAG process in coordination with key phases of the project. Representative groups for the various types of meetings and outreach, including the SAG include, but are not limited to, property owners neighborhood groups, Tribes, environmental non-profits, community-based organizations, business concerns and representatives, surfers/ocean recreation, design professionals, technical professionals, and historically marginalized communities. County staff will work with the outreach consultant to identify and invite participants

Additional outreach methodologies shall include, but not be limited to, online outreach methodologies to inform and solicit feedback on the project; an online visual story telling tool to share complex information; a project website to store project information, host interactive engagement tool(s), and links to recordings of online community meetings. All written and online content shall be provided in both English and Spanish. The plan will be reviewed by the County and Coastal Commission for approval.

Deliverables:

- Draft Outreach Plan for 6-week CCC staff review
- Final Outreach Plan with CCC staff comments incorporated if appropriate
- Stakeholder Advisory Group list
- Materials from, at minimum, 4 SAG meetings and up to 15 individual and small group meetings/interviews

#### **Task 4. Background Review and Existing Conditions Assessment**

The Santa Cruz County coastline is characterized by diverse geography and levels of development. There is a large amount of background material and past and more recent historical context to development along the coast. This task involves reviewing background materials, ground truthing existing geospatial data, and assessing existing conditions for key infrastructure, land use, protective measures, known hazards, and coastal resources throughout the County coastal zone. This task would identify relevant neighborhoods and subregions for conducting and summarizing future analyses.

The consultant team needs to become familiar with relevant Santa Cruz County LCP policies and definitions and how those have been implemented in the past and currently. The team must



understand County staff LCP policy interpretation and practice and Coastal Commission staff interpretation of the same policies and identify consistencies and differences, and demonstrate an understanding of Coastal Commission Sea Level Rise Policy Guidance and the Coastal Commission's position on key issues. This will provide a baseline understanding of the current policy and regulatory landscape and challenges facing this project. The goal of this project is to develop an LCP Amendment addressing coastal hazards that can be approved by the Coastal Commission. A previous attempt by the County to accomplish the same goal was denied by the Coastal Commission. Therefore, it will be important to understand the County's recent experience, along with the realization this endeavor needs to be a partnership with Coastal Commission staff to develop an LCP Amendment that can be approved by the Coastal Commission. County staff will assist the consultant team with documentation of existing County plans, past County LCP related efforts and context, and site-specific technical reports.

The consultant team will identify appropriate coastal hazard modeling information, relevant state guidance, and ongoing related regional and statewide initiatives, including other regulatory approaches being taken around California for jurisdictions facing similar urban challenges, armoring, and cliff erosion.

Deliverables:

- Draft Existing Conditions Assessment for 6-week CCC staff review
- Final Existing Conditions Assessment incorporating CCC staff comments if appropriate

#### **Task 5. Coastal Hazard, Economic and Fiscal Impact Vulnerability Assessment**

Provide a vulnerability assessment, including damage cost estimates for various community assets by sea level rise elevation. This task will utilize the best available coastal hazard models for coastal erosion, wave flooding, lagoon flooding and tidal inundation and the geospatial data collected in Task 3. Provide a vulnerability assessment for the following specific sectors:

- Land Use - parcels and structures
- Beach Access and Coastal Recreation infrastructure
- Water Supply, Wastewater, Storm Water infrastructure
- Transportation infrastructure
- Hazardous Materials (storage, USTs, geotracker)
- Agriculture
- Beach, dune, lagoon, and bluff areas by identified neighborhoods or subregions.

Identify the timing of impacts and damage thresholds for each sector based on the particular coastal hazard and sea level rise elevation likely to cause damages.

Calculate the value of projected damages to the built environment as a result of the vulnerability assessment conducted above. Sources for valuations include, but are not limited to, tax assessor records for estimates of tax-assessed and market values; Army Corps depth-damage curves to estimate damage to buildings and other infrastructure subject to inundation; and other methodologies to estimate damages to infrastructure and special situations such as damage to access to a structure where the structure itself may not be damaged. Convert

damage estimates under future sea level rise scenarios to present values, to allow for direct comparison. Calculate lost fiscal revenues associated with damaged properties based on their tax-assessed values to estimate the financial implications for the county. This will help inform the evaluation and selection of adaptation options in Task 7 and 8.

Deliverables:

- Draft Vulnerability Assessment for 6-week CCC staff review
- Final Vulnerability Assessment incorporating CCC staff comments if appropriate

### **Task 6. Economic and Fiscal Impact Analyses**

Collect information about the use of beaches and other coastal locations by residents, visitors and tourists. Using recreation and tourism usage valuation methodologies, provide an estimate of the value of recreation at a particular location. Gather information about the ways in which residents and tourists have already modified their behavior due to changes in the coastal zone and explore their likely behavioral responses to projected impacts on coastal amenities. Using the valuation information and survey information of behavioral responses to future changes to the County's coastline, provide estimates of the non-market economic impacts of various adaptation pathways. Estimate the economic impacts of future changes to the County's coastline on private property valuation. Evaluate the property price and fiscal impacts associated with various adaptation pathways, such as managed retreat, construction of revetments or seawalls, and beach renourishment, among any others. Review this task, including the information collection and survey methodologies, with the SAG to promote a common understanding of these analyses.

Deliverables:

- Draft Economic and Fiscal Impact Report for 6-week CCC staff review
- Final Economic and Fiscal Impact Report incorporating CCC staff comments if appropriate

### **Task 7. Adaptation Feasibility**

The goal of this task is to provide both stakeholders and decision makers with information on various adaptation pathways, which includes both specific adaptation projects as well as policy prescriptions. Building on the vulnerability assessment and economic analysis in Tasks 5, 6, and 7, provide a comprehensive assessment of feasibility and efficacy of various adaptation pathways. Based on community preferences gleaned through the Outreach Plan in Task 4, the vulnerability assessments in Tasks 5 and 6, and the information provided by the economic analysis in Task 7, Task 8 will examine and rank various adaptation options. Recommendations are needed for options that can be implemented immediately and in the future with the understanding that future options may require adjustment based on uncertainties related to timing and magnitude of future coastal changes. Because of the diverse nature of the Santa Cruz County coastline, adaptation options may vary by neighborhood and may change over time, but the broad choices are protection, accommodation, and managed retreat. Within this complex framework, adaptation options may include nature-based approaches, or engineering approaches, or hybrid approaches.

Provide a summary of the range of adaptation strategies and their applicability to different neighborhood and shoreline types. For the range of strategies applicable to a neighborhood, provide information about each strategy such as secondary consequences, regulatory viability, equity (environmental justice), and initial construction and ongoing maintenance costs, as well as removal costs of armoring, for presentation to the SAG and community for further analysis and discussion. This process will narrow down which strategies remain on the table for each neighborhood and shoreline type and provide the range of strategies for more in depth economic and fiscal analysis.

Model up to three prioritized adaptation strategies for each of the identified neighborhoods and provide projections of future physical changes to upland areas and beach, intertidal, and subtidal zones. Perform a quantitative cost versus benefits analysis based on the physical changes projected as a result of the different adaptation options. Task 5 provided an economic and fiscal analysis of the impacts of coastal hazards under a “do-nothing” scenario. The economic and fiscal analysis completed under this task will allow comparison of the feasibility and efficacy of various adaptation pathways.

Deliverables:

- Adaptation Feasibility Report for 6-week CCC staff review
- Adaptation Feasibility Report incorporating CCC staff comments if appropriate

### **Task 8. Adaptation Pathways by neighborhoods or subregions**

The results of Task 8 determined a suite of feasible adaptation strategies for each neighborhood and provided economic and fiscal analysis of those strategies. Task 8 is to consider that information, and in coordination with the SAG and community stakeholders, develop an adaptation pathway for each neighborhood. The pathway concept is an assumption of a phased approach to adaptation planning with an initial strategy that shift(s) to alternative strategies as conditions change in the future. All strategies need to reflect relevant legal and regulatory requirements, with reference to the Coastal Commission Sea Level Rise Policy Guidance. A shift from an initial strategy to an alternative strategy in the future would result from changed conditions and reflect the priorities as expressed by the SAG and community stakeholders. Such changed conditions would be considered triggering events or triggering conditions, which could include but are not limited to sea level rise, beach width, erosion, repetitive damage or frequency of damage, and discrete and cumulative costs of damage to public infrastructure. A triggering event or threshold conditions may lead to a pre-determined action or may call for conducting additional community and stakeholder input based on changed conditions and evolving community and stakeholder preference. Initial strategies and alternative strategies may include infrastructure upgrades or protective measures or policy and regulatory strategies for development and redevelopment.

Provide recommendations for an adaptation pathway for each neighborhood. Identify the information needed and the methodologies to collect the information to monitor conditions along the coast for each physical trigger and identify points at which additional decision-making

processes would be needed. Develop an adaptation pathway for each neighborhood/subregion. The pathways should include various decision points that allow for future decisions to be made based on changed conditions and evolving community vision.

Deliverables:

- Draft Adaptation Pathway figures for 6-week CCC staff review
- Final Adaptation Pathway figures incorporating CCC staff comments if appropriate

### **Task 9. Potential Financing Mechanisms**

Given the history and extent of development along the urbanized portions of the Santa Cruz County coastline, the potential costs of adapting to future sea level rise are considered to be very high. Whether it involves protection or retreat, the costs of constructing protective structures (if allowable) or removing or relocating existing structures, neither option is cheap in the short or long term. Although the strategy of regulating development and redevelopment to avoid hazards and protect coastal resources involves relatively minimal public costs, this strategy does not address the costs associated with removal or relocating structures that become threatened by coastal hazards. Regulation of development and redevelopment only goes so far and there will come a time when the consequences of sea level rise require the community to make significant decisions about preservation of coastal access and recreation and what to do about existing development and infrastructure along the coast that conflict with the public interest to preserve valuable coastal resources.

Provide a comprehensive review of financing options and strategies for utilizing them. Based on the suite of acceptable adaptation strategies identified in the project, provide a review of the range of financing options that could be most appropriate to the County's current finances, taking into consideration known state and federal policies and the evolving sources of funds from both public and private resources.

Deliverables:

- Financing Options Report

### **Task 10. Final Report and Policy Recommendations**

Provide a final report consisting of an executive summary of the entire work as well as a compilation of the individual documents delivered during the course of the project. The final report should include the portfolio of findings for each neighborhood and summarizing the results from each task in terms of vulnerabilities to infrastructure, coastal resources, economic impacts and social equity, as well as adaptation preferences and adaptation pathways as guided by the community and SAG. In the final report provide recommendations for both County wide LCP policy changes to coastal hazard policies as well as individual neighborhood policies that support the adaptation pathways.

Deliverables:

- Draft Comprehensive Vulnerability Assessment Report for 6-week CCC staff review (though a shorter or no review is expected for this task given that CCC staff will have reviewed components of the report in previous tasks)
- Final Comprehensive Vulnerability Assessment Report incorporating CCC staff comments if appropriate

**Task 11. LCP Amendment**

Task 12 will overlap with earlier tasks in that in conjunction with the completion of the vulnerability assessment and the final report, County staff intends to incorporate the policy recommendations into an update to the LCP Land Use Plan (LUP) and Implementation Plan (IP) provisions that relate to coastal hazards. The proposed update will focus on the LUP’s beaches and bluffs chapter (Chapter 6.4) and conforming changes to the IP’s geologic hazards chapter (Chapter 16.10). Building off the work of the consultant team and the policy recommendations from the team, this task includes County staff work to develop the actual LCP Amendment documents, preparation of the Planning Commission and Board of Supervisors staff reports and all related tasks to process the LCP Amendments through the local approval process and submittal to the California Coastal Commission for certification. A key part of this task will be ongoing coordination and consultation with local Coastal Commission staff because the goal of this project, as stated in the project description, is to develop an LCP Amendment addressing coastal hazards that can be approved by the Coastal Commission. Coordination with CCC staff will occur at all stages, including an early scoping meeting and meeting to discuss drafts and CCC comments.

Deliverables:

- Administrative Draft LUP and IP for 6-week CCC staff review
- Public Review Draft LUP and IP incorporating CCC staff comments if appropriate, to be posted for public review
- Planning Commission staff report and draft incorporating public and CCC comments if appropriate
- Board of Supervisors staff report and draft
- Submittal of LUP and IP

**SCHEDULE**

Projected Start/End Dates: (See individual task descriptions for detailed deliverables)

<b>Task 1. Project Management</b>	<b>Start date: Month 1</b> <b>End date: Duration of project</b>
Outcome/Deliverables: a. RFPs and contracts for consultants b. Quarterly Grant Progress Reports	a. Month 1 b. Duration of project
<b>Task 2. Kickoff meetings</b>	<b>Start date: Month 1</b> <b>End date: Month 2</b>

Outcome/Deliverables a. Meeting materials and notes	a. Month 2
<b>Task 3. Stakeholder Engagement</b>	<b>Start date: Month 2</b> <b>End date: Duration of project</b>
Outcome/Deliverables a. Outreach Plan b. SAG list c. Reporting from meetings and engagement	a. Draft Outreach Plan: Month 2 b. Final Outreach Plan: Month 4
<b>Task 4. Background Review and Existing Conditions Assessment</b>	<b>Start date: Month 4</b> <b>End date: Month 11</b>
Outcome/Deliverables a. Existing Conditions Report	a. Draft Report: Month 9 b. Final Report: Month 11
<b>Task 5. Coastal Hazard, Economic and Fiscal Impact Vulnerability Assessment</b>	<b>Start date: Month 11</b> <b>End date: Month 14</b>
Outcome/Deliverables a. Coastal Hazards Vulnerability Assessment	a. Draft Assessment: Month 12 b. Final Assessment: Month 14
<b>Task 6. Economic and Fiscal Impact Analyses</b>	<b>Start date: Month 14</b> <b>End date: Month 17</b>
Outcome/Deliverables a. Economic and Fiscal Impact Report	a. Draft Report: Month 15 b. Final Report: Month 17
<b>Task 7. Adaptation Feasibility</b>	<b>Start date: Month 17</b> <b>End date: Month 20</b>
Outcome/Deliverables a. Adaptation Feasibility Report	a. Draft Report: Month 18 b. Final Report: Month 20
<b>Task 8. Adaptation Pathways by neighborhoods or subregions</b>	<b>Start date: Month 20</b> <b>End date: Month 23</b>
Outcome/Deliverables a. Adaptation Pathways figures	a. Draft figures: Month 21 b. Final figures: Month 23
<b>Task 9. Potential Financing Mechanisms</b>	<b>Start date: Month 23</b> <b>End date: Month 26</b>
Outcome/Deliverables a. Financing Options Report	a. Draft Report: Month 24 b. Final Report: Month 26
<b>Task 10. Final Report and Policy Recommendations</b>	<b>Start date: Month 26</b> <b>End date: Month 30</b>
Outcome/Deliverables a. Final Comprehensive Vulnerability Assessment Report	a. Draft Final Report: Month 28 b. Final Final Report: Month 30

<b>Task 11. LCP Amendment</b>	<b>Start date: Ongoing</b> <b>End date: Month 33</b>
Outcome/Deliverables a. LCP Amendment	a. Planning Commission: Month 31 b. Board of Supervisors: Month 33

## BENCHMARK SCHEDULE

ACTIVITY	COMPLETION DATE
Kickoff meeting materials and notes	Month 2
Outreach Plan	Month 4/Duration of project
Existing Conditions Report	Month 11
Coastal Hazards Vulnerability Assessment	Month 14
Economic and Fiscal Impact Report	Month 17
Adaptation Feasibility Report	Month 20
Adaptation Pathways figures	Month 23
Financing Options Report	Month 26
Final Comprehensive Vulnerability Assessment Report	Month 30
LCP Amendment	Month 33

## BUDGET

### Application Budget Information

Funding Request: \$780,000

Total Project Cost: \$780,000

<i>Jurisdiction Name</i>	<i>CCC Grant Total</i>	<i>Match/Other Funds</i>	<i>Total (LCP Grant Funds + Match/Other Funds)</i>
<b>LABOR COSTS<sup>1</sup></b>			
<b>County/City Staff Labor</b>			
<i>Task 1 – Project Management</i>	\$21,392		\$21,392
<i>Task 2 – Kickoff meeting</i>	\$764		\$764
<i>Task 3 – Stakeholder engagement</i>	\$5,157		\$5,157
<i>Task 4 – Background Review and Existing Conditions Assessment</i>	\$3,820		\$3,820
<i>Task 5 – Coastal Hazard, Economic and Fiscal Impact Vulnerability Assessment</i>	\$2,292		\$2,292

<sup>1</sup> Amount requested should include total for salary and benefits.

<i>Jurisdiction Name</i>	<i>CCC Grant Total</i>	<i>Match/Other Funds</i>	<i>Total (LCP Grant Funds + Match/Other Funds)</i>
<i>Task 6 – Economic and Fiscal Impact Analyses</i>	\$2,865		\$2,865
<i>Task 7 – Adaptation Feasibility</i>	\$2,865		\$2,865
<i>Task 8 – Adaptation Pathways by neighborhoods or subregions</i>	\$2,865		\$2,865
<i>Task 9 – Potential Financing Mechanisms</i>	\$1,528		\$1,528
<i>Task 10 – Reporting and Policy recommendations</i>	\$3,820		\$3,820
<i>Task 11 – LCP Amendment</i>	\$30,560		\$30,560
<b>Total Labor Costs</b>	<b>\$77,928</b>		<b>\$77,928</b>
<b>DIRECT COSTS</b>			
<b>County/City Staff Project Supplies</b>			
Copies	\$1,000		\$1,000
<b>Total</b>	<b>\$1,000</b>		<b>\$1,000</b>
<b>County/City Staff Travel In State<sup>2</sup></b>			
Mileage	\$280		\$280
<b>Total</b>	<b>\$280</b>		<b>\$280</b>
<b>Consultants<sup>3</sup>/Partners</b>			
Consultant Team			
<i>Task 1 – Project Management</i>	\$60,000		\$60,000
<i>Task 2 – Kickoff Meetings</i>	\$8,000		\$8,000
<i>Task 3 – Stakeholder Engagement</i>	\$150,000		\$150,000
<i>Task 4 – Background Review of Existing Conditions</i>	\$60,000		\$60,000
<i>Task 5 – Coastal Hazard, Economic and Fiscal Impact Analysis</i>	\$75,000		\$75,000
<i>Task 6 – Economic and Fiscal Impact Analysis</i>	\$105,000		\$105,000

<sup>2</sup> Travel reimbursement rates are the same as similarly situated state employees.

<sup>3</sup> All consultants must be selected pursuant to a bidding and procurement process that complies with all applicable laws.



<i>Jurisdiction Name</i>	<i>CCC Grant Total</i>	<i>Match/Other Funds</i>	<i>Total (LCP Grant Funds + Match/Other Funds)</i>
<i>Task 7 – Adaptation Feasibility</i>	\$90,000		\$90,000
<i>Task 8 – Adaptation Pathways neighborhood or subregions</i>	\$55,000		\$55,000
<i>Task 9 – Potential Financing Mechanisms</i>	\$10,000		\$10,000
<i>Task 10 – Reporting and Policy Recommendations</i>	\$60,000		\$60,000
<i>Expenses</i>	\$20,000		\$20,000
<b><i>Consultants Total</i></b>	<b>\$693,000</b>		<b>\$693,000</b>
<b>Total Direct Costs</b>	<b>\$693,000</b>		<b>\$693,000</b>
<b>OVERHEAD/INDIRECT COSTS<sup>4</sup></b>			
<b>Total County/City Staff Overhead/Indirect Costs</b>	<b>\$7,792</b>		<b>\$7,792</b>
<b>TOTAL PROJECT COST</b>	<b>\$780,000</b>		<b>\$780,000</b>

**SUPPLEMENTARY INFORMATION**

**Previous LCP Amendment**

Santa Cruz County proposed an update to the LCP Land Use Plan (LUP) and Implementation Plan (IP) provisions that relate to coastal hazards, including in terms of response, adaptation, and resiliency, along the County’s roughly 32 miles of coastal zone shoreline. The proposed update was essentially a complete replacement of the LUP’s beaches and bluffs chapter (Chapter 6.4) and proposed conforming changes to the IP’s geologic hazards chapter (Chapter 16.10). In October 2022, the proposed LCP Amendment was denied by the Coastal Commission, in part, finding that an updated vulnerability assessment was needed. The complete staff report on the Coastal Commission’s findings is available at the link below.

<https://documents.coastal.ca.gov/reports/2022/10/F10e/F10e-10-2022-report.pdf>

**Recent Storm Damage**

In January 2023, the Santa Cruz County coastline was hit by a series of atmospheric river storm events that brought large amounts of rain combined with a storm surge and unusually high tides. These conditions resulted in extensive beach and bluff erosion and damage to existing structures as illustrated in the photos below. These events serve as a dramatic reminder of the

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<sup>4</sup> Indirect costs include, for example, a pro rata share of rent, utilities, and salaries for certain positions indirectly supporting the proposed project but not directly staffing it. Amount requested for indirect costs should be capped at 10% of amount requested for “Total Labor.”

coastal hazards we face today that are projected to become more frequent and more intense as a result of future sea level rise. It is, therefore, imperative that we update coastal hazard policies to reduce damage or injury, and reduce threats to coastal resources including beaches, public access and recreation opportunities.



*Figure 1 Beach Drive house displaced off its foundation (Credit: Santa Cruz County Sheriff's Office)*



*Figure 2 Rio Del Mar Flats and Beach Drive wave runup and flooding (Credit: Santa Cruz County Sheriff's Office)*





*Figure 3 Rio Del Mar beach house (Credit: Kevin Painchaud – Lookout Santa Cruz)*



Figure 4 Rio Del Mar beach homes (Credit: Melina Mara-Washington Post)



Figure 5 Seacliff State Beach (Credit: California State Parks)





*Figure 6 Piece of Capitola Wharf deposited inside Zeldas restaurant (Credit: Shmuel Thaler)*



*Figure 7 East Cliff Drive at Moran Lake*





*Figure 8 Las Olas Drive at New Brighton State Beach (Credit: Santa Cruz Waves)*



Adopted 6/27/23  
Board of Supervisors  
DOC-2023-598 71.a

BEFORE THE BOARD OF SUPERVISORS  
OF THE COUNTY OF SANTA CRUZ, STATE OF CALIFORNIA

RESOLUTION NO. 154-2023

On the motion of Supervisor Hernandez  
Duly seconded by Supervisor Cummings  
The following Resolution is adopted:

RESOLUTION AUTHORIZING AN APPLICATION FOR FUNDING FROM CALIFORNIA COASTAL  
COMMISSION LOCAL COASTAL PROGRAM LOCAL ASSISTANCE GRANT PROGRAM

WHEREAS, the Budget Act of 2021 provides up to \$31 million to support the Coastal Commission's LCP Local Assistance Grant Program which awards grants to local governments to support coastal resiliency and updates to Local Coastal Programs (LCPs); and

WHEREAS, the California Coastal Commission, under the authority of the California Coastal Act, may provide financial assistance to support coastal planning and has approved a grant program to provide such financial assistance for LCP planning; and

WHEREAS, the goal of the grant program is to develop new or updated LCPs in conformance with the California Coastal Act and to promote coastal resiliency and address the effects of climate change; and

WHEREAS, grant proposals submitted under this grant program must complete Local Coastal Program (LCP) planning work with special emphasis on coastal resiliency and addressing the effects of climate change and sea-level rise; and

WHEREAS, the County of Santa Cruz has an effectively certified LCP; and

WHEREAS, the County of Santa Cruz desires to pursue a project that would result in the completion and submittal for certification by the California Coastal Commission of an Amendment to the LCP in part; and

WHEREAS, the County of Santa Cruz commits to and agrees to fully support a planning effort intended to amend a certified LCP pursuant to the provisions of the California Coastal Act, with full public participation and coordination with the Coastal Commission staff.

NOW, THEREFORE, the Board of Supervisors of the County of Santa Cruz resolves and orders that:

1. County of Santa Cruz staff is hereby authorized and directed to submit the grant application to the California Coastal Commission to provide financial and planning assistance, under authority of the California Coastal Act, in the approximate amount of


Resolution 154-2023


\$733,000 to fund the project more particularly described in the grant application package.

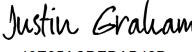
- 2. The Deputy County Administrative Officer/Director Community Development and Infrastructure Department, of the County of Santa Cruz, is hereby authorized to execute, in the name of the County of Santa Cruz, all necessary applications, contracts and agreements and amendments thereto to implement and carry out the grant application package and enter into a grant agreement with the California Coastal Commission if the grant is awarded.

PASSED AND ADOPTED by the Board of Supervisors of the County of Santa Cruz, State of California, this 27th day of June, 2023 by the following vote:

AYES: Supervisors Koenig, Hernandez, Cummings, McPherson and Friend  
 NOES: None  
 ABSENT: None  
 ABSTAIN: None

DocuSigned by:  
 7/3/2023  
 2C437165727F4FD...  
 Zach Friend  
 Chair, Board of Supervisors

ATTEST:  7/3/2023  
 466B074E3141450  
 Juliette Burke  
 Chief Deputy Clerk of the Board

APPROVED AS TO FORM:  
 40F85ACDEDAB42D...  
 Justin Graham (06/08/2023, AMS 14514)  
 Office of the County Counsel