



Coastal Resilience Planning

KEY

COMPLETED WORK

CURRENT WORK

FUTURE WORK



PENDING GRANT ACCEPTANCE



LACKS FUNDING

2018

2019

2020

2021

2022

2023

2024

2025

2026

Sea Level Rise Vulnerability Assessment adopted with Climate Adaptation Plan Update)

Resilient Coast Santa Cruz 1.0 - LCP work funded by CCC and WCD funded by CA DOT included:

WCD Existing Conditions Inventory + Future Vulnerability Assessment

Beach Vulnerability and Adaptation Strategy

WCD Adaptation Alternatives Analysis

Beaches Urban Climate Adaptation Policy Implication + Response Strategy Evaluation Technical Report

Synthesis Summary of Outreach and Engagement

WCD Alternative Cost-Benefit Analysis

WCD Adaptation + Management Plan - Public Works Plan

LCP Beaches + Bluffs Chapter

Coastal Change Monitoring Network Design/Deployment Partially funded by NSF/CCC



West Cliff 50-Year Vision

West Cliff 5-Year Roadmap

Living Shorelines, NBS, Sand Management Feasibility Funded by Coastal Conservancy

Tidal gauge install at wharf

USACE Silver Jackets Assistance w/Federal + State Partners in Coastal Management

Local Coastal Program Update to integrate Adaptation Pathways (funded by CCC) includes:

West Cliff, East Cliff and Main/Cowell Beaches Shoreline Adaptation Blueprints funded by Ocean Protection Council

Triggers + Thresholds for Coastal Management

Lighthouse Pt Hazard Analysis



3 Coastal Restoration Projects Design + Construction funded by NOAA through 2028



Updated August 13, 2024

KEY

CURRENT WORK

FUTURE WORK



PENDING GRANT ACCEPTANCE



LACKS FUNDING

Current + Future Coastal Resilience Planning

WEST CLIFF 5-YEAR IMPLEMENTATION ROADMAP

DESCRIPTION: Farallon Strategies will work with the City, the community, and stakeholders to develop a Roadmap and Gantt Chart for West Cliff projects, which includes reconciling the Roadmap with the City's existing work, aligning the Roadmap with the 50-year Community Vision for West Cliff, evaluating potential next steps for a planned relocation process, project options, and associated timelines for dedicated bike and pedestrian lanes with one-way vehicle lanes for West Cliff Drive.

FUNDING: City General Funds

STATUS: Pending contracting with Farallon

TIMELINE: Through January, 2025

OTHER CONSIDERATIONS: Must sequence with the shoreline adaptation blueprints project and be in alignment with the LCP project deliverable. State Parks is a key decision maker for a portion of West Cliff.

SILVERJACKETS ASSISTANCE WITH FEDERAL + STATE PARTNERS IN COASTAL MANAGEMENT

DESCRIPTION: Silverjackets assisted with early community engagement pieces for the NBS feasibility study and is tentatively expected to facilitate a dialogue between federal, state and local coastal management agencies on the NBS project and other projects contained in this fact sheet.

FUNDING: Technical Assistance from US Army Corps of Engineers.

STATUS: Negotiating scope of next phase of work.

TIMELINE: Unclear but through 2025.

OTHER CONSIDERATIONS: Needed and neutral capacity to facilitate important discussions.

LOCAL COASTAL PROGRAM BEACHES AND BLUFFS CHAPTER

DESCRIPTION: Integrates sea level rise policies and visioning work into the Local Coastal Program through a new chapter and refines the coastal adaptation pathways triggers and thresholds through the Coastal Commission's lens.

FUNDING: CA Coastal Commission (\$200k)

STATUS: In progress since 2020. Public review in fall 2024.

TIMELINE: Chapter goes to City Council in December 2024 for adoption and Coastal Commission subsequently for approval.

OTHER CONSIDERATIONS: Input to Blueprints, West Cliff Roadmap, others.

WEST CLIFF, EAST CLIFF + MAIN/ COWELL BEACHES SHORELINE ADAPTATION BLUEPRINTS

DESCRIPTION: Refinement of coastal adaptation strategy across 3 subareas and development of implementation blueprints in compliance with SB 272. Focus on resources and change management to implement.

FUNDING: Ocean Protection Council (\$550,000)

STATUS: Negotiating grant terms with OPC.

TIMELINE: Expect October, 2024 start date

OTHER CONSIDERATIONS: Funds some staffing. State Parks is a key decision maker.

LIVING SHORELINES, NATURE BASED SOLUTIONS, SAND MANAGEMENT FEASIBILITY STUDY

DESCRIPTION: Assess feasibility of nature based solutions (NBS) for coastal resiliency between Natural Bridges and San Lorenzo Rivermouth.

FUNDING: CA Coastal Conservancy (\$500,000)

STATUS: Technical feasibility study work began and engagement planning in development with selected consultant, ESA, and their subs. Staff conducting engagement on education and project awareness with youth and general public.

TIMELINE: Through March, 2025

OTHER CONSIDERATIONS: Input to Blueprints and NBS Restoration projects. Early communications pieces developed by UCSC Coastal Sci and Policy grad program students and Silverjackets

COASTAL CHANGE MONITORING NETWORK

DESCRIPTION: A network of sensors, cameras, and dashboards that track coastal change developed by 13 federal, state and local agencies, the coastal change monitoring network is specified in various policy and planning documents to enhance analysis, planning and tracking of coastal change and management. Includes a coastal module of the Cityworks asset inventory.

FUNDING: Developed via National Science Foundation Grant w/UCSC - \$50,000; Tidal Gauge deployed via General Funds., Cityworks coastal module, back end dashboard is not yet funded

STATUS: Tidal gauge installed 2024.

TIMELINE: Deployment as funding allows.



LIGHTHOUSE POINT HAZARD + SOLUTIONS ANALYSIS

DESCRIPTION: Assess the extent of coastal hazards at Light House point and evaluate nature based solutions, natural feature restoration and planned relocation as possible future actions.

FUNDING: None identified (~\$350k)

STATUS: Pending funding

TIMELINE: Scheduled to be completed in 2024

OTHER CONSIDERATIONS: Integrates with NBS feasibility study and input to Adaptation Blueprints project. State Parks a key decision maker.



DESIGN, PERMITTING, ENVIRONMENTAL REVIEW + CONSTRUCTION OF 3 COASTAL NATURE BASED RESTORATION SITES

DESCRIPTION: Funds design, permitting, environmental review, engagement, monitoring and construction of Jessie Street Marsh Restoration, San Lorenzo Park Restoration and a Main Beach/Rivermouth Living Shoreline.

FUNDING: \$7.9M for City from \$71M grant to Monterey Bay Region for Coastal Resilience from NOAA.

STATUS: Coordinating pre-award activities

TIMELINE: Starts Oct. 2024 for 4.5 years.

OTHER CONSIDERATIONS: Funds some staffing.

