



Shoreline Preservation Working Group Agenda

Thursday, March 7, 2024

11:30 a.m.

Welcome to SANDAG. The Shoreline Preservation Working Group (SPWG) meeting scheduled for Thursday, March 7, 2024, will be held in person in the SANDAG Board Room. While SPWG members will attend in person, members of the public will have the option of participating either in person or virtually.

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Public Comments: Members of the public may speak to the SPWG on any item at the time the SPWG is considering the item. Public speakers are generally limited to three minutes or less per person.

Persons who wish to address the members on an item to be considered at this meeting, or on non-agendized issues, may email comments to the Clerk at clerkoftheboard@sandag.org (please reference SPWG meeting in your subject line and identify the item number(s) to which your comments pertain). Comments received by 4 p.m. the business day before the meeting will be provided to members prior to the meeting. All comments received prior to the close of the meeting will be made part of the meeting record.

If you desire to provide in-person verbal comment during the meeting, please fill out a speaker slip, which can be found in the lobby. If you have joined the Zoom meeting by computer or phone, please use the "Raise Hand" function to request to provide public comment. On a computer, the "Raise Hand" feature is on the Zoom toolbar. By phone, enter *9 to "Raise Hand" and *6 to unmute. Requests to provide live public comment must be made at the beginning of the relevant item, and no later than the end of any staff presentation on the item. The Clerk will call on members of the public who have timely requested to provide comment by name for those in person and joining via a computer, and by the last three digits of the phone number of those joining via telephone. Should you wish to display media in conjunction with your comments, please inform the Clerk when called upon. The Clerk will be prepared to have you promoted to a position where you will be able to share your media yourself during your allotted comment time. In-person media sharing must be conducted by joining the Zoom meeting on the personal device where the content resides. Please note that any available chat feature on the Zoom meeting platform should be used by panelists and attendees solely for procedural or other "housekeeping" matters as comments provided via the chat feature will not be retained as part of the meeting record. All comments to be provided for the record must be made in writing via email or speaker slip, or verbally per the instructions above.

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Free Language Assistance | Ayuda gratuita con el idioma | Libreng Tulong sa Wika | Hỗ trợ ngôn ngữ miễn phí | 免費語言協助 | 免費語言協助 | مجانية لغوية مساعدة | 무료 언어 지원 | رایگان زبان کمک | 無料の言語支援 | Бесплатная языковая помощь | Assistência linguística gratuita | मुफ्त भाषा सहायता | Assistance linguistique gratuite | ස්ත්‍රීයභාෂාභාෂිකීර්මය | ఉచిత భాషా సహాయం | ການຊ່ວຍເຫຼືອດ້ານພາສາພາສາ | Kaalmada Luqadda ee Bilaashka ah | Безкоштовна мовна допомога | sandag.org/LanguageAssistance | (619) 699-1900

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Vision Statement: *Pursuing a brighter future for all*

Mission Statement: *We are the regional agency that connects people, places, and innovative ideas by implementing solutions with our unique and diverse communities.*

Our Commitment to Equity: *We hold ourselves accountable to the communities we serve. We acknowledge we have much to learn and much to change; and we firmly uphold equity and inclusion for every person in the San Diego region. This includes historically underserved, systemically marginalized groups impacted by actions and inactions at all levels of our government and society.*

We have an obligation to eliminate disparities and ensure that safe, healthy, accessible, and inclusive opportunities are available to everyone. The SANDAG equity action plan will inform how we plan, prioritize, fund, and build projects and programs; frame how we work with our communities; define how we recruit and develop our employees; guide our efforts to conduct unbiased research and interpret data; and set expectations for companies and stakeholders that work with us.

We are committed to creating a San Diego region where every person who visits, works, and lives can thrive.

Shoreline Preservation Working Group

Thursday, March 7, 2024

Comments and Communications

1. Non-Agenda Public Comments/Member Comments

Members of the public shall have the opportunity to address the Shoreline Preservation Working Group (SPWG) on any issue within the jurisdiction of SPWG that is not on this agenda. Public speakers are limited to three minutes or less per person. Public comments under this agenda item will be limited to five public speakers. If the number of public comments under this agenda item exceeds five, additional public comments will be taken at the end of the agenda. SPWG members and SANDAG staff also may present brief updates and announcements under this agenda item.

Consent

+2. Approval of Meeting Minutes

Tessa Lero, SANDAG

Approve

The SPWG is asked to review and approve the minutes from its Thursday, December 7, 2023, meeting.

[Meeting Minutes](#)

+3. Request for Proposals: Regional Shoreline Monitoring Program

Antoinette Meier, Courtney Becker, SANDAG

Information

This item provides an overview of the competitive bid process utilizing SANDAG's Environmental On-Call Contract to continue the Regional Shoreline Monitoring Program for the next five years.

[Request for Proposals: Regional Shoreline Monitoring Program](#)
[Att. 1 - Proposed FY 2025 - 2029 Scope of Work](#)

Reports

4. Southern California Governance Structures for Shoreline Management

4A. Beach Erosion Authority for Clean Oceans and Nourishment (BEACON)

Marc Beyeler, Beach Erosion Authority for Clean Oceans and Nourishment

Information

Executive Director Marc Beyeler will present a short review of BEACON, the Beach Erosion Authority for Clean Oceans and Nourishment. BEACON is a Joint Powers Authority comprised of the two counties of Santa Barbara and Ventura and the six coastal cities from Goleta to Pt. Hueneme.

[Supporting Materials](#)

4B. Orange County Parks

Susan Brodeur, Makana Nova, Orange County Parks

Information

Susan Brodeur and Makana Nova will present an overview of Orange County

Parks' current efforts on the South Orange County Coastal Resilience Strategic Plan with a focus on regional coordination. In addition, the joint agency concepts to address coastal erosion and lessons learned will be presented for future projects.

[Supporting Materials](#)

5. Overview of the RE:BEACH Oceanside Competition

Information

Jayme Timberlake, City of Oceanside

Jayme Timberlake will present an overview of the elements of the winning design and next steps for the RE:BEACH Oceanside Coastal Resilience Design Competition. The competition is hosted by the City of Oceanside to determine the most innovative, multi benefit solution for retaining sand along the City's shoreline.

[Supporting Materials](#)

6. Adjournment

The next SPWG meeting is scheduled for Thursday, June 6, 2024, at 11:30 a.m.

+ next to an agenda item indicates an attachment

March 7, 2024

December 7, 2023, Meeting Minutes

Chair Dwight Worden (City of Del Mar) called the meeting of the Shoreline Preservation Working Group (SPWG) to order at 11:33 a.m.

1. Public Comments/Communications/Member Comments

There were no public comments.

Reports

2. Approval of Meeting Minutes

There were no public comments on this item.

Action: Upon a motion by Mayor John McCann (City of Chula Vista) and a second by Mayor Paloma Aguirre (City of Imperial Beach), the SPWG voted to approve the minutes from its September 7, 2023, meeting.

The motion passed.

Yes: Chair Worden, Mayor Aguirre, Mayor McCann, Councilmember Mike Donovan (City of Coronado), Councilmember Eric Joyce (City of Oceanside), Deputy Mayor David Zito (City of Solana Beach), and Eileen Maher (Port of San Diego).

No: None.

Abstain: Jessica Curren (US Navy).

Absent: City of San Diego, City of Carlsbad, City of Encinitas, City of National City, and County of San Diego.

3. San Diego County Updates on Tijuana River Valley Efforts

County of San Diego staff Amy Harbert, Deborah Mosley, and Kiran Seibel presented an overview of their Beach & Bay Water Quality Program, an update on PCR testing, and solutions identified to mitigate the pollution and impacts.

Elizabeth, member of the public, spoke in support of this item.

David Gibson, Executive Officer of San Diego Regional Water Quality Control Board spoke in support of the item.

Margaret Williamson, member of the public, spoke in support of this item.

Action: Information only.

4. Tijuana River Valley Environmental Crisis

Executive Officer David Gibson and Chris Helmer, City of Imperial Beach, presented on the status of the emergency, the comprehensive plan to address the issue, and current implementation challenges.

There were no public comments on this item.

Action: Discussion only.

5. Upcoming Meetings

The next SPWG is a joint Working Group Forum scheduled for January 25, 2024, at 10 a.m.

The next regular SPWG meeting is scheduled for Thursday, March 7, 2024, at 11:30 a.m.

6. Adjournment

Chair Worden adjourned the meeting at 1:23 p.m.

Confirmed Attendance at Shoreline Preservation Working Group Meeting

Jurisdiction	Name	Attended
City of Carlsbad	Councilmember Carolyn Luna	No
	Mayor Keith Blackburn	No
City of Chula Vista	Mayor John McCann	Yes
	Vacant	n/a
City of Coronado	Councilmember Mike Donovan	Yes
	Councilmember John Duncan	No
City of Del Mar	Councilmember Dwight Worden, Chair	Yes
	Councilmember Terry Gaasterland	No
City of Encinitas	Councilmember Kellie Hinze	No
	Deputy Mayor Joy Lyndes	No
City of Imperial Beach	Mayor Paloma Aguirre	Yes
	Councilmember Mitch McKay	Yes
City of National City	Councilmember Jose Rodriguez	No
	Councilmember Marcus Bush	No
City of Oceanside	Deputy Mayor Ryan Keim	No
	Councilmember Eric Joyce	Yes
Port of San Diego	Commissioner Dan Malcolm	No
	Eileen Maher	Yes
City of San Diego	Councilmember Joe LaCava	No
	Councilmember Jennifer Campbell	No
County of San Diego	Supervisor Terra Lawson-Remer	No
	Supervisor Joel Anderson	No
City of Solana Beach	Councilmember Kristi Becker	No
	Deputy Mayor David Zito	Yes
U.S. Navy	Jason Golumbskie-Jones	No
	Jessica Curran	Yes
Advisory Members		
California Coastal Commission	Kanani Leslie	No
National Marine Fisheries Service	Bryant Chesney	No
State Department of Fish and Wildlife	Leslie Hart	No
State Department of Parks and Recreation	Darren Smith	Yes
State Lands Commission	Kenneth Foster	No
U.S. Army Corps of Engineers	Heather Schlosser	No

California Coastal Coalition	Steve Aceti	No
California Lobster and Trap Fishermen's Association	Vacant	No
Coastal Environmental Rights Foundation	Marco Gonzalez	No
Scripps Institute of Oceanography	Dr. Reinhard Flick	No
Southern California Tribal Chairmen's Association	Michael Connolly	No
Surfrider Foundation	Mitch Silverstein	Yes
Caltrans	Reece Allen	Yes

DRAFT

March 7, 2024

Request for Proposals: Regional Shoreline Monitoring Program

Overview

For the past 28 years, SANDAG has contracted professional services to conduct spring and fall beach monitoring surveys to measure beach width change over time, identify areas of erosion, and to determine the success of past beach nourishment projects. This work is done on behalf of the local coastal jurisdictions who fund the effort through Memorandum of Understandings (MOUs) with SANDAG.

The current Regional Shoreline Monitoring Program (RSMP) consultant contract is set to expire in July 2024. SANDAG proposes to initiate a competitive bid process to hire a consultant to continue shoreline monitoring for the next five years.

Key Considerations

- In 1996 the SANDAG established the RSMP to better track beach width change over time. The RSMP is funded by the coastal cities who pay a proportionate share based on linear, sandy, shoreline miles within their jurisdiction. SANDAG contracts with a consultant who implements the RSMP and presents the results to the Shoreline Preservation Working Group (SPWG) biannually to help make decisions on sediment management.
- The RSMP monitors and collects shoreline and lagoon entrance data biannually (Fall and Spring) from 38 transects along the San Diego region's coastline. Data that is collected includes Mean Sea Level (MSL) shoreline positions, measured beach width, changes in shoreline volume per linear foot, and historical and recent environmental conditions, nourishment activities, and sediment bypassing within the region.
- Based upon presentations made to the SPWG over the last year, SANDAG is requesting an optional task to add four additional transects to the RSMP to close gaps in data, specifically in the cities of Carlsbad, Encinitas, and Del Mar.

Next Steps

SANDAG will initiate the RFP process and use the Environmental On-Call Contract to procure the work. Concurrently, SANDAG will work individually with each coastal city to enter into updated five-year MOUs to continue to fund their proportionate share for the RSMP. Updates on the awarded consultant and final scope of work will be presented at a future SPWG meeting.

Antoinette Meier, Director of Regional Planning

Attachment(s): 1. Proposed Fiscal Year 2025-2029 Scope of Work

Action: Information

This item provides an overview of the competitive bid process utilizing SANDAG's Environmental On-Call Contract to continue the Regional Shoreline Monitoring Program for the next five years.

Fiscal Impact:

The results of the RFP will be provided to the coastal jurisdictions along with an updated MOU to fund their proportionate share of the RSMP.

Schedule/Scope Impact:

SANDAG will competitively bid and award a consultant to continue the RSMP prior to the Fall survey season (November 2024).

REGIONAL SHORELINE MONITORING PROGRAM

FY2025 - FY2029

I. EXECUTIVE SUMMARY

The [Regional Shoreline Monitoring Program](#) (RSMP) provides physical measurements of the region's beaches essential to the design and evaluation of efforts to manage the region's shoreline. The RSMP measures the impacts of beach erosion over time, documents the benefits of sand replenishment projects, and helps to improve the design and effectiveness of beach fills. RSMP success depends on continuity of the fundamental components including beach monitoring and lagoon entrance monitoring. Consistency over time has exposed trends, which are used to plan climate adaptation projects, such as the Regional Beach Sand Projects (RBSP), lagoon restoration projects which enhance the resilience of the coast, and future regional pilot sand retention device projects.

II. SCOPE OF WORK

Task 1. Survey Control Recovery and Maintenance

Recover benchmarks at the historical SANDAG sponsored transect locations included in the Base Program described in Table 1, *Beach Profile Transect Locations*.

Task 1 Deliverables:

- Provide SANDAG updated control sheets, annually, that describe the location and condition of each benchmark as well as note any significant changes.
- Quarterly Reports detailing work performed, successes and challenges experienced, anticipated work to be performed for the next quarter, and any media (photographs, videos, maps, etc.) will accompany each invoice submission.

Task 2. Spring & Fall 2025-2029 Beach Profile Surveys

Obtain fall beach profile data compatible with historical data at the 38 SANDAG sponsored Base Program transects described in Table 1. The methods used to collect the profile data shall be comparable to those used in previous Regional Beach Monitoring Programs. Profiles will extend from the back beach to beyond the presumed depth of closure.

Obtain spring beach profile data compatible with historical data at the 38 SANDAG sponsored Base Program transects described in Table 1. The methods used to collect the profile data shall be comparable to those used in previous Regional Beach Monitoring Programs. Profiles will extend from the back beach to beyond the presumed depth of closure.

Task 2 Deliverables:

- Analyzed Fall and Spring beach profile data (digital files, etc. ArcMap files, etc.) to be provided to SANDAG annually as well as incorporated into the annual reports.
- Quarterly Reports detailing work performed, successes and challenges experienced, anticipated work to be performed for the next quarter, and any media (photographs, videos, maps, etc.) will accompany each invoice submission.

Task 3. Regional Shoreline Monitoring Annual Reports for Fiscal Years (FY) 2025-2029

Prepare Annual Reports for FY 2025-2029¹ that contains the following products for the Base Program beach transects included in the Spring and Fall Surveys.

1. A plot that displays the beach profile data obtained along each transect.
2. A tabulation of the Mean Sea Level (MSL) shoreline positions and changes measured at each transect since Spring 1996.
3. A tabulation of the beach width (reckoned from landward limit of the sandy beach to the MSL shoreline) measured at each transect since Spring 1996.
4. A tabulation of changes in shoreline volume per lineal foot at each transect for select winter, summer, annual, and long-term periods between 1997 and 2029.

In addition to these graphical and tabular products, which shall be provided in digital format as one or more appendices, the Annual Report shall include: (1) an overview of historical and recent environmental conditions, nourishment activities, and sediment bypassing operations; (2) a summary of the regional beach changes noted during the previous one-year period, and (3) an assessment of the impacts of the recent environmental conditions, nourishment activities, and bypassing activities on the observed condition of the beaches. A summary of lagoon entrance changes noted during the previous one-year period also will be included.

Task 3 Deliverables:

- Draft report will be prepared for review by SANDAG with a final report (with appendices) incorporating comments.
- Annual presentation on the 2025-2029 Regional Shoreline Monitoring Program to SANDAG's Shoreline Preservation Working Group in June of each year.
- Quarterly Reports detailing work performed, successes and challenges experienced, anticipated work to be performed for the next quarter, and any media (photographs, videos, maps, etc.) will accompany each invoice submission.

Task 4. State Parks Scientific Research and Collections Permit(s)

Prepare an application(s) for a Scientific Research and Collections Permit(s) for surveys at beaches managed by the California Department of Parks and Recreation. The permit application can be downloaded from the [California Department of Parks and Recreation website](#). Provide relevant survey data from the California Department of Parks and Recreation, as dictated by the permit. Permit(s) must be issued before beginning fall beach monitoring activities each year.

¹ To provide continuity, the Annual Report years are listed as the following: 2024 Annual Report is monitoring performed from November 2023-October 2024; 2025 Annual Report is monitoring performed from November 2024-October 2025; 2026 Annual Report is monitoring performed from November 2025-October 2026; 2027 Annual Report is monitoring performed from November 2026-October 2027; 2028 Annual Report is monitoring performed from November 2027-October 2028; 2029 Annual Report is monitoring performed from November 2028-October 2029

Task 4 Deliverables:

- California Department of Parks and Recreation Scientific Research and Collections Permit(s)

OPTIONAL Task 5. Establish 4 Additional Transects

If exercised by SANDAG, based on the 28 years' worth of beach monitoring data and best available science, four additional transects will be added to the base monitoring program in order to track and understand sub-littoral cell sand movement and to close gaps in current monitoring data for South Carlsbad, Cardiff, and Del Mar. Transects were identified to better understand beach erosion hot spots, impacts from other regional beach nourishment efforts, and success of Regional Beach Sand Nourishment Projects.

OPTIONAL Task 5 Deliverables:

- Four additional transects (Table 2) will be included for Fall and Spring beach profile data collection to be provided to SANDAG annually as well as incorporated into the annual reports.
- Quarterly Reports detailing work performed, successes and challenges experienced, anticipated work to be performed for the next quarter, and any media (photographs, videos, maps, etc.) will accompany each invoice submission.

Table 1. Beach Profile Transect Locations

CELL	TRANSECT	LOCATION	TRANSECT	LOCATION
Silver Strand Littoral Cell	SS-0003 ⁽¹⁾	Tijuana Estuary	SS-0050 ⁽¹⁾	Imperial Beach
	SS-0015 ⁽¹⁾	Imperial Beach	SS-0077 ⁽¹⁾	Silver Strand
	SS-0025 ⁽¹⁾	Imperial Beach	SS-0090 ⁽¹⁾	Silver Strand
	SS-0035 ⁽¹⁾	Imperial Beach	SS-0160 ⁽¹⁾	Coronado
Mission Beach Littoral Cell	OB-0230 ⁽¹⁾	Ocean Beach	MB-0340 ⁽¹⁾	Mission Beach
	MB-0310 ⁽¹⁾	Mission Beach	MB-0384 ⁽¹⁾	Mission Beach
	MB-0320 ⁽¹⁾	Mission Beach	PB-0408 ⁽¹⁾	Pacific Beach
Oceanside Littoral Cell	LJ-0443 ⁽¹⁾	La Jolla	SD-0675 ⁽¹⁾	Stone Steps
	LJ-0445 ⁽¹⁾	La Jolla	SD-0680 ⁽¹⁾	Beacons
	LJ-0450 ⁽¹⁾	La Jolla	SD-0710 ⁽¹⁾	Batiquitos
	LJ-0460 ⁽¹⁾	Scripps Pier	CB-0720 ⁽¹⁾	Batiquitos
	TP-0470 ⁽¹⁾	Blacks Beach	CB-0760 ⁽¹⁾	Ponto Beach
	TP-0530 ⁽¹⁾	Torrey Pines	CB-0830 ⁽¹⁾	Carlsbad
	TP-0520 ⁽¹⁾	Torrey Pines	CB-0865 ⁽¹⁾	Carlsbad
	DM-0580 ⁽¹⁾	Del Mar	CB-0880 ⁽¹⁾	Buena Vista
	DM-0590 ⁽¹⁾	Del Mar	OS-0930 ⁽¹⁾	Buccaneer Beach
	SD-0600 ⁽¹⁾	Fletcher Cove	OS-1000 ⁽¹⁾	Oceanside
	SD-0630 ⁽¹⁾	Cardiff	OS-1030 ⁽¹⁾	Oceanside
	SD-0670 ⁽¹⁾	Moonlight Beach	OS-1070 ⁽¹⁾	Oceanside

Notes: ⁽¹⁾Base Program Transect.

Table 2. *OPTIONAL ADDITIONAL BEACH PROFILE TRANSECT LOCATIONS*

CELL	TRANSECT	LOCATION
Oceanside Littoral Cell	CB-0810	Carlsbad
	CB-0725	Carlsbad
	SD-0645	Cardiff
	DM-0570	Del Mar



1

WHO WE ARE

8 Member Agencies:

- County of Santa Barbara
- County of Ventura
- City of Carpinteria
- City of Goleta
- City of Oxnard
- City of Port Hueneme
- City of Santa Barbara
- City of Ventura

The BEACON Coast

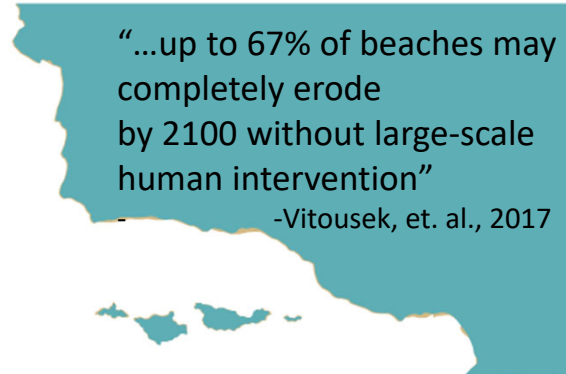
The map shows the coastline from Santa Barbara to Los Angeles, highlighting the 8 member agencies and the limits of the Santa Barbara Littoral Cell. The map includes labels for various counties (San Luis Obispo, Kern, Los Angeles, Santa Barbara, Ventura), cities (Santa Barbara, Carpinteria, Goleta, Oxnard, Port Hueneme), and islands (Santa Cruz Island, Anacapa Island). A legend indicates the City Areas and the Santa Barbara & Ventura County Area.

2

TODAY



2100



**“Vitousek, et. al., (2017), J. Geophys. Res. Earth Surf., 122, 782–806*

3

WHAT WE DO

BEACON's supports long-term, comprehensive restoration programs and projects, including:

Regional Sediment Management Planning
Coastal Access and Restoration Projects-Goleta, Carpinteria, Rincon/Faria, Ventura, and Port Hueneme
Regional Coastal Sea Level Rise Adaptation



Surfer's Point Project Rendering, Ventura

4

1

PROJECTS: GOLETA BEACH RESTORATION

- Goleta Beach has lost its sandy beach over the last 30 years
- One of the most visited beaches on the south coast, especially by underserved communities
- Identified as one of the most important beach access points in the region
- BEACON is supporting solutions to build long-term resilience

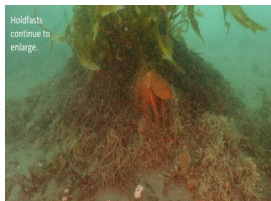
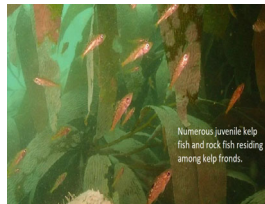


5

2

PROJECTS: GOLETA BAY KELP ANCHOR DEMONSTRATION

- California is losing its historic kelp forests
- Kelp is essential to aquatic species & is needed for a healthy ocean ecology



- Redevelop our kelp resources through alternative technology. Demonstration and proof of concept project.

6

3

PROJECTS: CARPINTERIA BEACH NOURISHMENT

- Carpinteria Beach is severely eroded
- Demonstrates regional beach erosion
- BEACON is embracing nature-based solutions and reestablishing the water sheds.



Beach Nourishment



After Beach Nourishment

7

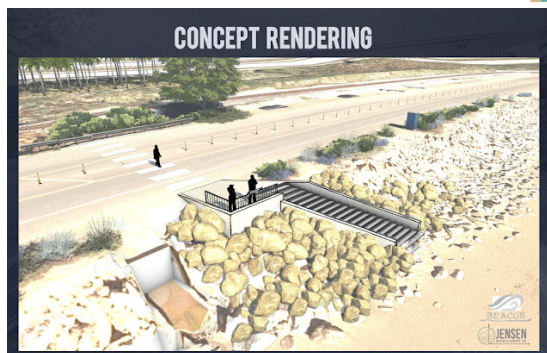
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PROJECTS: MONDO'S COVE BEACH ACCESS STAIRWAY

- Limited public beach access
- Dangerous
- One of Ventura's most heavily-used beaches
- Timeline for completion is two-years



Current view of Mondo's Cove



Initial concept rendering of Mondo's Cove

8

5

PROJECTS: SURFER'S POINT LIVING SHORELINE



- Chronic coastal erosion, threatening public facilities
- Implementing nature-based restoration project that eliminates negative coastal resource impacts, provides for long-term resilience



9

6

PROJECTS: TSUMAS CREEK & ORMOND LAGOON

- Tsumas Creek & Ormond Lagoon filled to capacity with trash & debris
- BEACON working to help fund trash booms in the Tsumas Creek above the Ormond Lagoon Waterway to address continuing trash problem



- Trash booms will help reduce polluted runoff and trash from entering into the Ormond Lagoon Waterway, and subsequently into the Pacific Ocean

10

PROJECTS: COASTAL REGIONAL SEDIMENT MANAGEMENT PLAN



7

- Sediment plan is outdated
- Need updated science, especially on sea-level rise and climate change
- Working on updating the plan with more current data

11

BEACON: Integrating Science and Policy

- BEACON has always employed the best available science and scientists
- In the past 5 years BEACON has advanced its science planning:
 - 2019-2020 Science Strategy
 - 2021 BEACON Science Survey-solicit input on BEACON science activities
 - 2021 BEACON established Science Advisory Committee (SAC)
 - 2021 SAC developed Science Research Goals for the BEACON Strategic Plan
 - 2022 SAC developed a Science Research Agenda with Implementation Strategy
 - Research Agenda identified Regional Monitoring as a critical element of successful agency programs, including physical, ecological, socio-cultural data collection

12

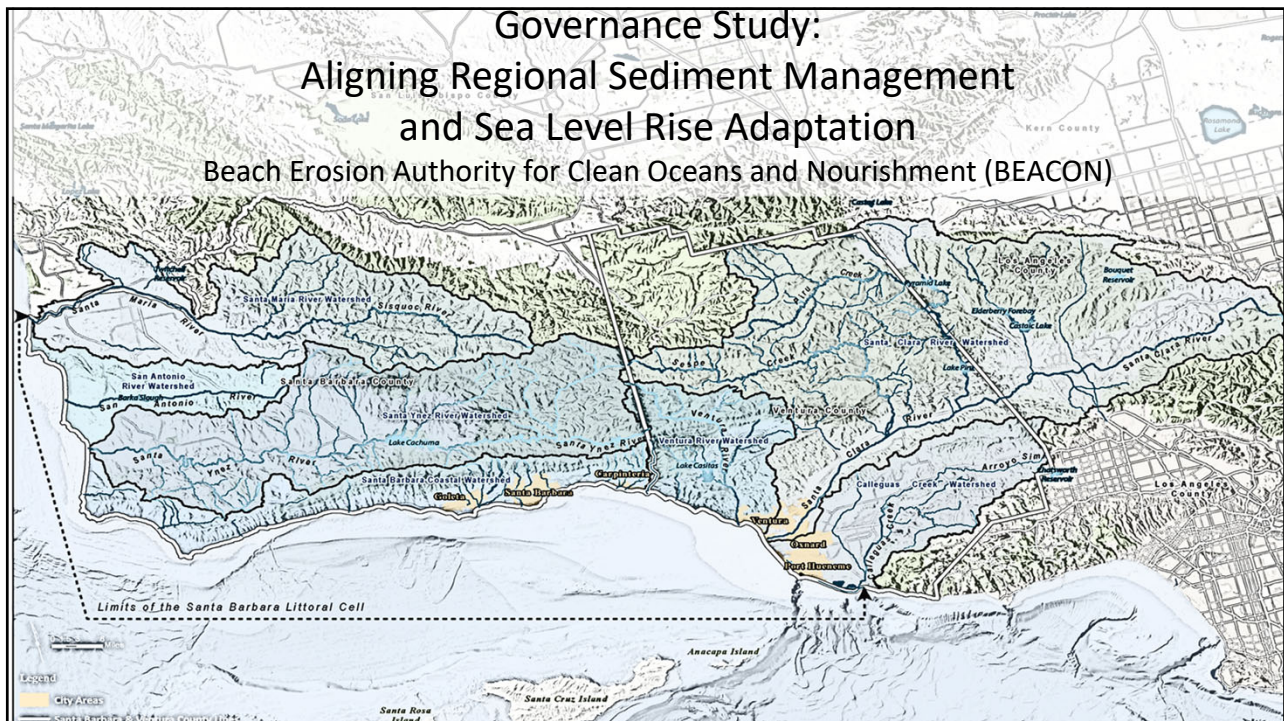
Regional Coastal Adaptation Monitoring Program (RCAMP)

- Collaborative project with City of Santa Barbara using funding from the Coastal Commission to develop a regional sea level rise (SLR) adaptation monitoring program
- Plan will include early pilot projects to establish monitoring parameters and monitoring methods



13

Governance Study: Aligning Regional Sediment Management and Sea Level Rise Adaptation Beach Erosion Authority for Clean Oceans and Nourishment (BEACON)



14

Governance Analysis of Alignment of Regional Sediment Management and Sea Level Rise Adaption

Legislature approved \$50,000 in funding to BEACON in the California Budget as a line item in the Coastal Conservancy budget:

“To the Beach Erosion Authority for Clean Oceans and Nourishment (BEACON) for analysis of options for aligning regional sediment management and sea level rise adaptation.”

15

Study Objectives

- Examine governance options for increasing the integration of regional sediment management and sea level rise adaptation
- Report outlining a range of available and feasible options for governance and financing options to better integrate RSM and coastal resilience planning
- List of recommendations for regional sediment management, including how the state of California can further assist RSM organizations to implement their plans.

16

Study Methods

- Examine current coastal regional sediment management and regional sea level rise adaptation governance in California
- Examine potential role of the state of California in promoting and supporting integration efforts at the regional level
- Involve federal, state, and regional stakeholders to provide insight of potential governance options and recommended actions through expert interviews, surveys, and focus groups

17

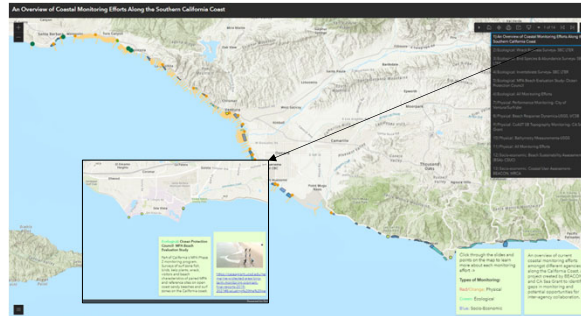
THANK YOU!

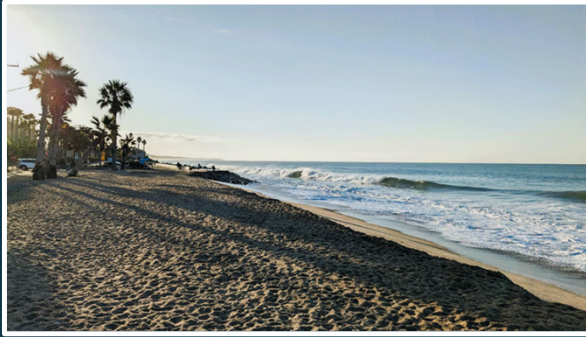
- **BEACON Chair Vianey Lopez**
 - Supervisor, County of Ventura
 - Contact: Vianey.Lopez@ventura.org
- **BEACON Executive Director Marc Beyeler**
 - Contact: beyeler@beacon.ca.gov

18

Data Inventory

- BEACON SAC summary of ongoing monitoring
- CA Sea Grant/UCSB Coastal Monitoring Web Application & Map
- BEACON regional resilience planning & RCAMP team
- **Input from BEACON stakeholders/managers**





Regional coordination, highlighting OC Parks' current efforts to address coastal erosion.

March 7, 2024

South Orange County Coastal Resilience Strategic Plan



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1

Summary/ Objectives



- A. Meet the deliverables of the **Prop 68 Work Plan** for the Ocean of Protection Council (OPC)
- B. Address chronically eroding shorelines through regional **shoreline management** in south Orange County
- C. **Assess, prioritize, and advance resiliency projects** for the region (resources are delivered to the areas most in need)
- A. Provide a **formal platform** for agencies to regularly discuss and coordinate coastal resiliency efforts

Takeaway: Establish a collaborative/coalition for South Orange County.

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2

Benefits of Agency Collaboration



Pool resources

- Permitting efficiencies and fiscal benefits
- Take advantage of funding and grant opportunities
- Delegate agency strengths



Streamlining

- Don't double the work. Prioritize efforts in the most critical areas first to benefit the region.
- Reduces costs and competition for the same resources



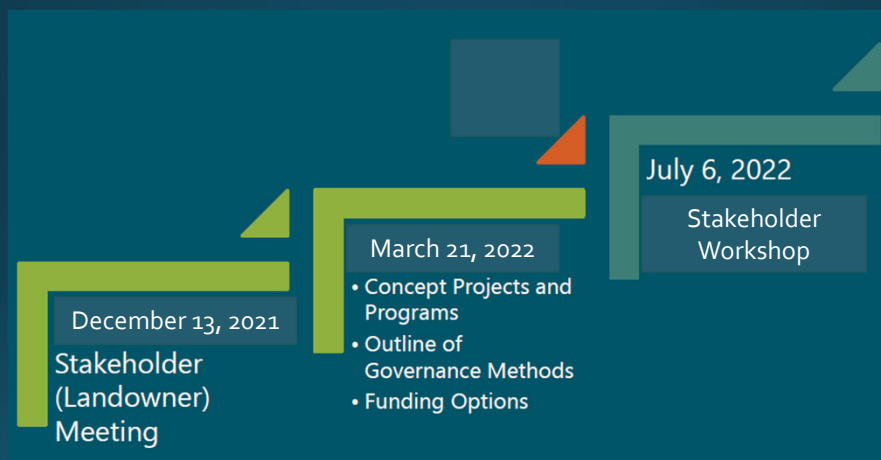
Close the Gap

Close the Southern CA gap in coastal resiliency collaborative governance structures.

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3

Stakeholder Engagement Overview



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4

Collaborative Structure Analysis

MOA/MOU

JPA

County-Led Collaborative – Ad Hoc

USACE – co-sponsors

Consultant or Nonprofit-Led Collaborative

Business as Usual or Do-It-Alone

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Funding Opportunities

Regional Collaborative/Cost-Sharing Framework

Grant Funding

Impact Mitigation Fees

Geologic Hazard Abatement District

TOT or Sales Tax

Local Hazard Mitigation Planning and Pre-Disaster Assistance

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6

Prioritization of Future Projects

1. Identify critical areas
 - Build upon existing monitoring programs
2. Sand nourishment
 - Identify sediment sources
 - Coordinate stockpile sites
 - Create a program for regular sand delivery
3. Implement sand nourishment projects
4. Sand retention and other approaches
5. Continue to monitor, study, and maintain



7

Identify Critical Areas

Evaluation Criteria for Beach Condition Classifications

Parameter	Critical	Threatened	Stable
1. October 22 Beach Width	< 100 ft	100 to 150 ft	> 150 ft
2. Shoreline Change Trend (2001 to 2022)	Erosion Rate > 1 ft/yr	Erosion Rate < 1 ft/yr	Shoreline Stability/Accretion
3. Coastal Infrastructure Damage Risk	High	Medium	Low
4. Natural Resource Damage Risk	High	Medium	Low
5. Recreational Impacts	High	Medium	Low

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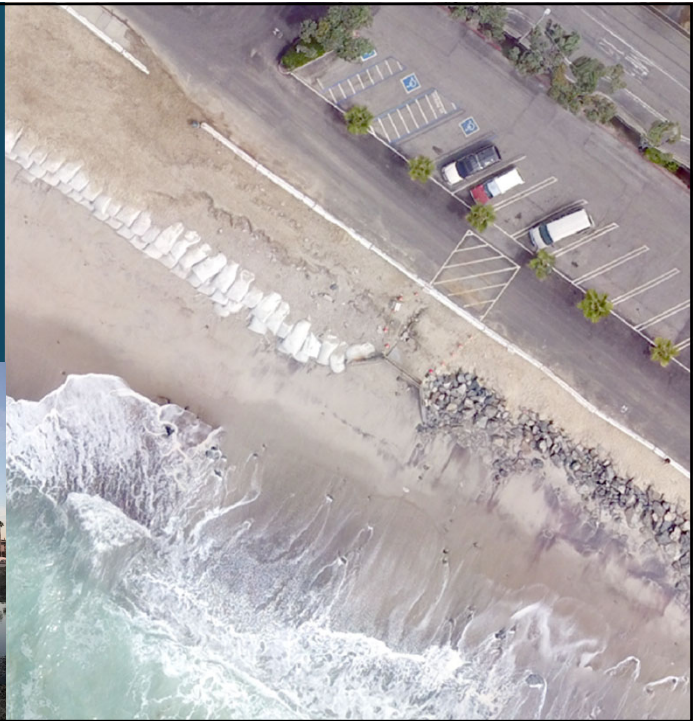
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Capistrano County Beach

Master Plan

Shoreline Protection

- Sand-Filled Geotextile Bags
- Rock



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Capistrano County Beach/Doheny State Beach

Beneficial Sand Re-Use

Sand Compatibility Use Guidelines (SCUG)

- Biological analysis
- Sand composition
- Chemical analysis

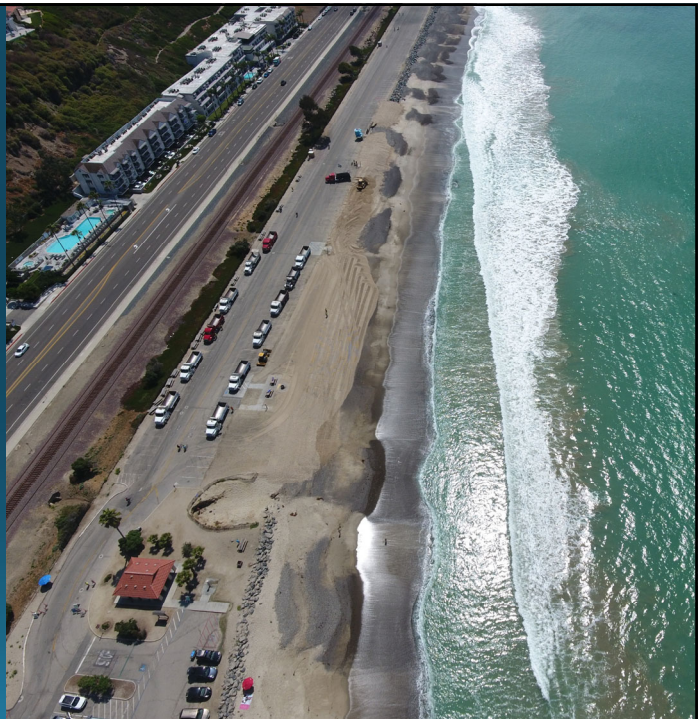
Permitting

- CDP waiver
- Emergency RGP notification USACE/ RWQCB

Monitoring

- Avian monitoring
- Grunion monitoring

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10

Pilot Project

- Nature-based pilot project for living shoreline
- Cobble berm covered by native-vegetated dunes
- CDP authorization granted in November of 2022



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11

Sand Compatibility and Opportunistic Use Program (SCOUP)

Lead Agency:

Orange County Public Works

Consultant:

Moffatt & Nichol

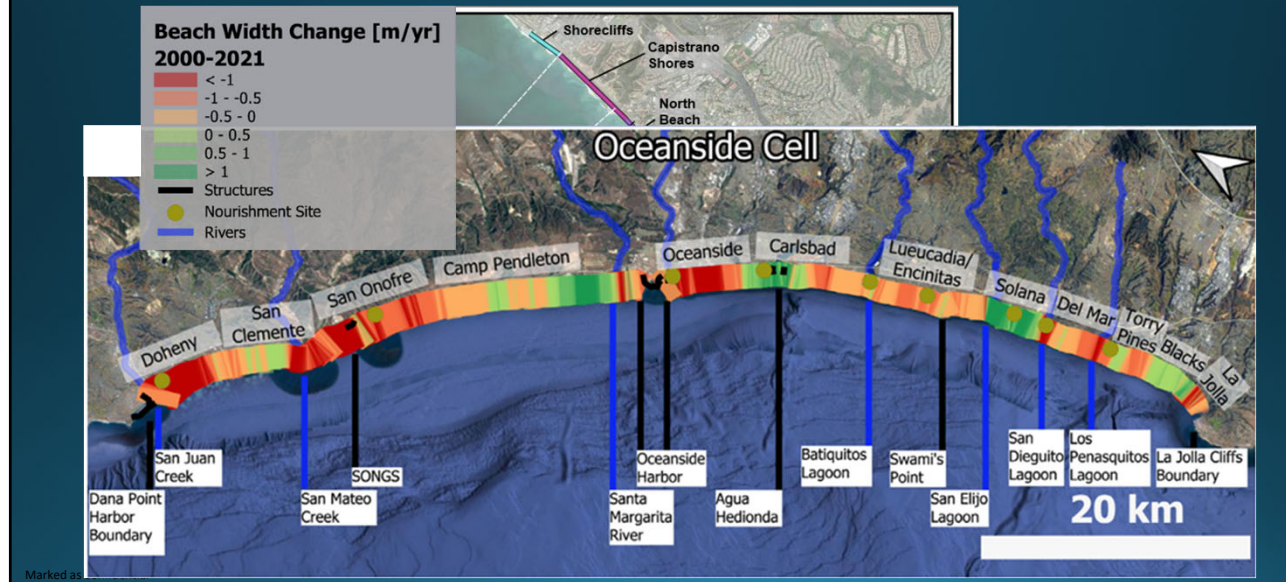
Status:

Draft in Review - 1 year

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12

Monitor, Study and Maintain



13

SANDAG



Regional Beach Sand Project III

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Other Sand Partnerships and Grand Ideas

OCWD

- SediMatch GIS application

SCCWRP

- Ecological and social cost-benefit analysis

OCTA rail delivery

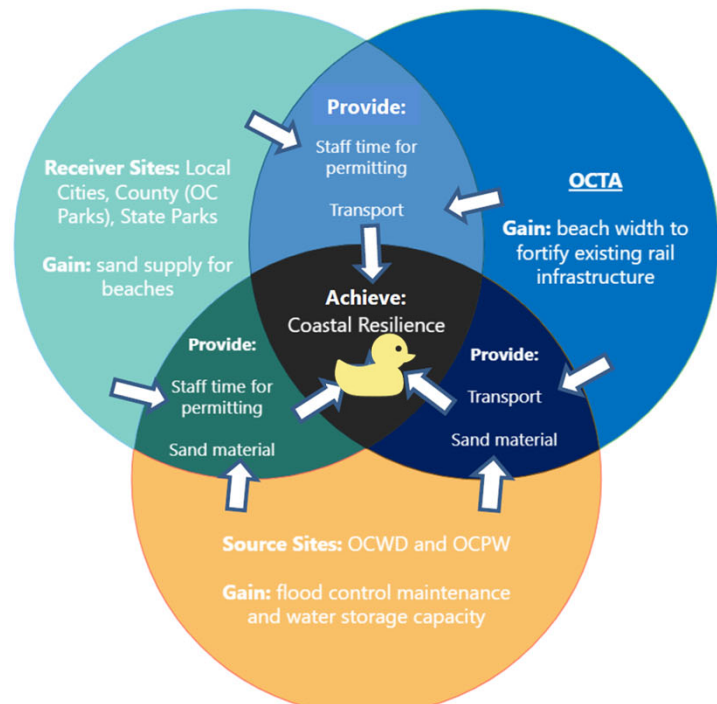
- Sidetrack
- Side dumping and heavy equipment
- Maintenance windows

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Agency Collaboration

- Each agency is contributing something and gaining benefits
- All agencies are working together and contributing their specialties
- Working together toward a common goal (coastal resilience)



16

Conclusions, Recommendations, and Next Steps

1. Form a regional collaborative (South County Beach Coalition)
2. Adopt a governance structure (MOU)
3. Prioritize future projects
4. Pursue funding opportunities
5. Implement projects



17

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18

RE:BEACH

OCEANSIDE

Jayme Timberlake
Coastal Zone Administrator
RE:BEACH City Project Manager
City of Oceanside



1

RE:BEACH BACKGROUND

Phase 1 Beach Sand Feasibility Study (2020 – 2021)

- Preliminary Engineering Evaluation
 - Identified deficiencies in current coastal management
 - Determined suite of conceptual ideas to lessen beach erosion
- Recommendations
 - High-quality source of sand and beach nourishment program
 - Piloting of a sand retention structure(s) should be considered along with a sand nourishment program

Phase 2 Sand Nourishment and Retention Pilot Project (2023-2026)

- Community and Stakeholder Engagement
- Baseline Monitoring Development
- Engineering, Analysis and Design of a Pilot Project
 - Preliminary design through a Design Competition (RE:BEACH Oceanside)
 - Final design and engineering
 - Plans and specifications
- Environmental Compliance and Permitting



2

RE:BEACH OBJECTIVES

Primary Goals

- Restore sandy beaches in Oceanside with an innovative, multi-benefit project
- Increase efficiency and extend the benefits of sand management efforts



3

RE:BEACH COMPONENTS

Jury and Advisory Panel

- Voting Members
 - Coastal Management
 - Permitting Viability
 - Surf Resource Preservation
 - Nearshore Marines
 - Coastal Cities Representatives
 - Community Representatives
- Non-voting Members
 - State Agencies
 - California Coastal Commission
 - California Coastal Conservancy
 - Non-governmental
 - Surfrider Foundation
 - Buena Vista Lagoon Audubon Society
 - Federal Agency

Design Criteria

- Boundary to the scope of design
- Objectives/performance standards for design solutions to be measured against
- Criteria assessed
 - Physical
 - Environmental
 - Financial
 - Social
 - Regional

Solicitation and Design Teams Selection

- 36 target and solicited firms
 - 6 teams formed
 - 3 Design Team Finalists

4

RE:BEACH OUTREACH

Public Workshops

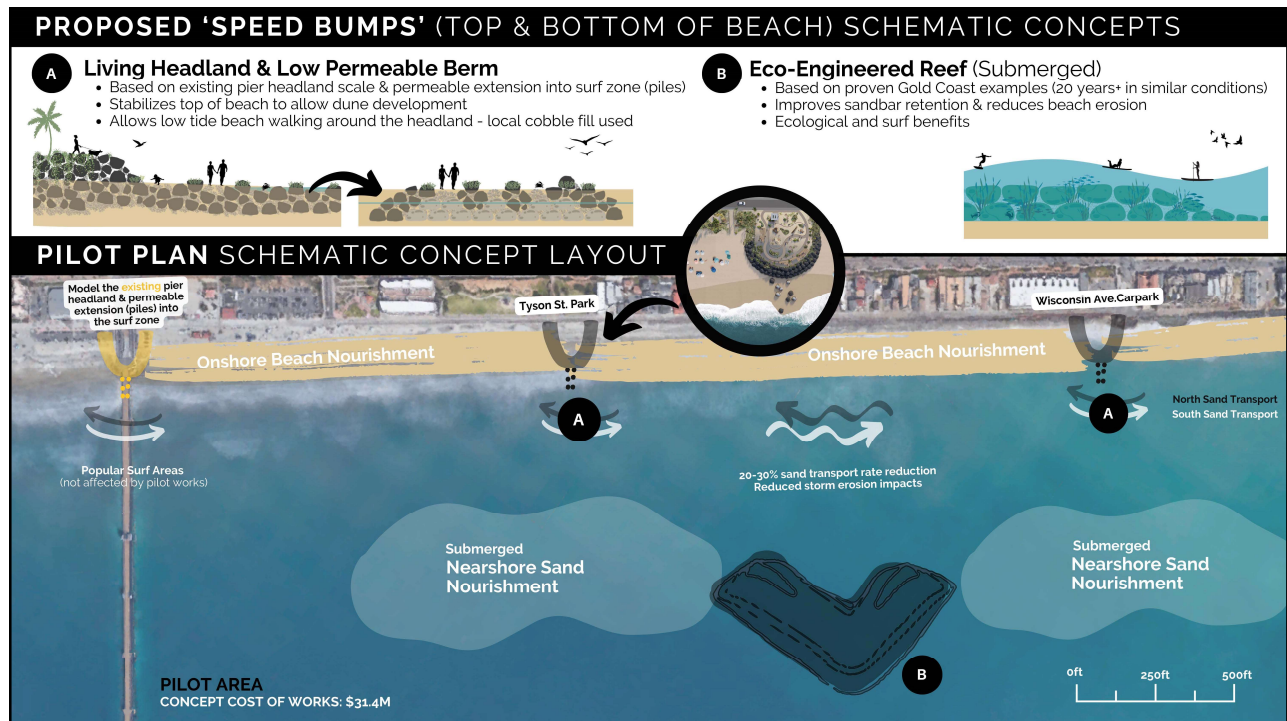


Regional and Local Meetings and Events

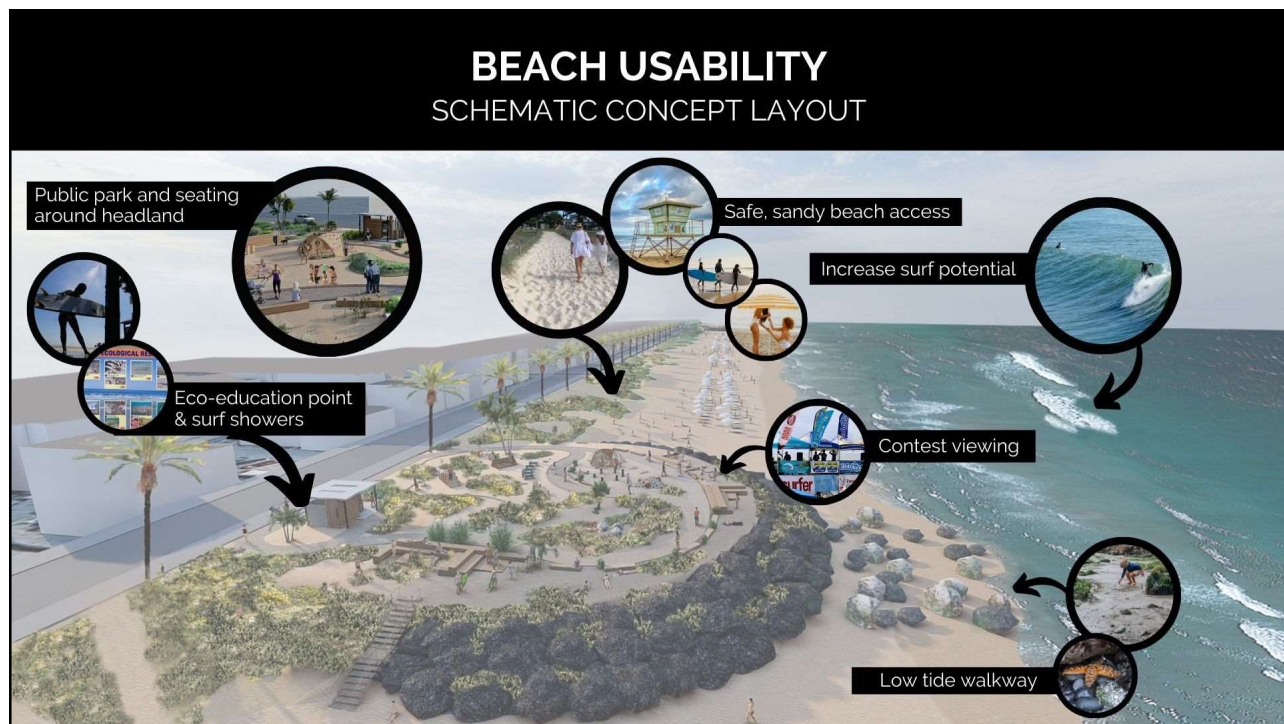
Meetings	Date	Events/Conferences/Summits	Date
Oceanside Coastal Neighborhood Association	March 2023	Smart Coast Cities Summit	May 2023
Oceanside Chamber of Commerce	March 2023, November 2023	San Diego Regional Climate Collaborative	November 2023*
SANDAG Sediment Management Technical Task Force	September 2023	Headwaters to Ocean Conference	November 2023
Coastal Cities Meeting	October 2023, January 2024	Oceanside High School, Oceanography class	December 2023*
Visit Oceanside	November 2023	Beach Ecology Coalition	January 2024

*Additional future outreach meetings are already scheduled with the SDRCC and El Camino High School for February and March 2024.

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7

NEXT STEPS: YEAR 1 + 2

Year 1:

- Pilot Siting
- Evaluate & Refine Pilot System
- Modeling
- Develop Beach Nourishment Program
- Adaptive Management Plan
- Outreach

Year 2:

- Final Engineering
- Environmental Compliance and Permitting
- Outreach

GOAL:
Shovel-ready Project in 2026

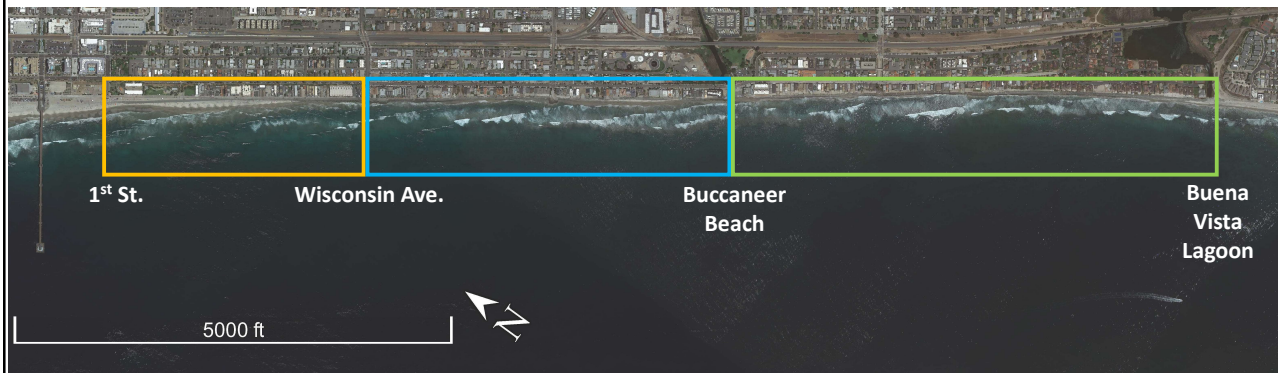
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PILOT LOCATION

- Segment 1. 1st St. to Wisconsin Ave.
- Segment 2. Wisconsin to Buccaneer Beach
- Segment 3. Buccaneer Beach to Buena Vista Lagoon

Key study considerations:

- Land ownership
- Ability to manage sand within and around pilot location
- Constructability and maintenance
- Potential for impacts to: biological resources, surf resources, or adjacent beaches



9

EVALUATE AND REFINE PILOT PROJECT

Refine Major Design Elements

- Shoreline stabilization system details
- Landscape features

Sharpen Cost Estimate

- Need to refine estimate considering constructability, materials, escalation, etc.
- Initial estimates, for comparison purposes
 - Cost range \$30-50M

Expand Baseline Monitoring

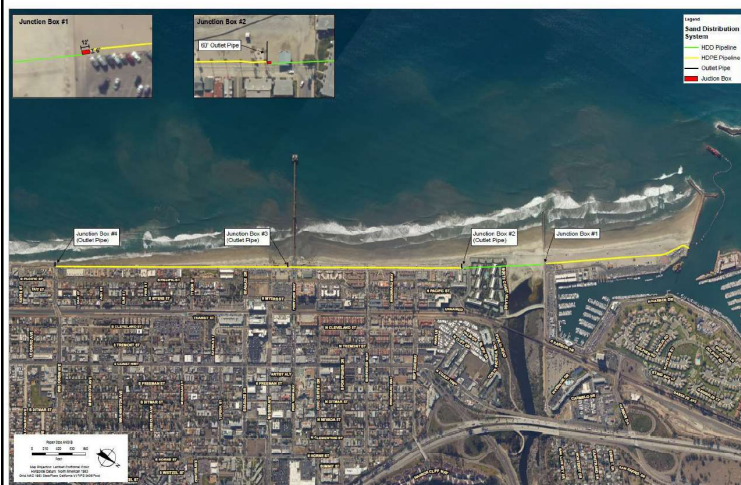
- Surf conditions
- Beach attendance refinement



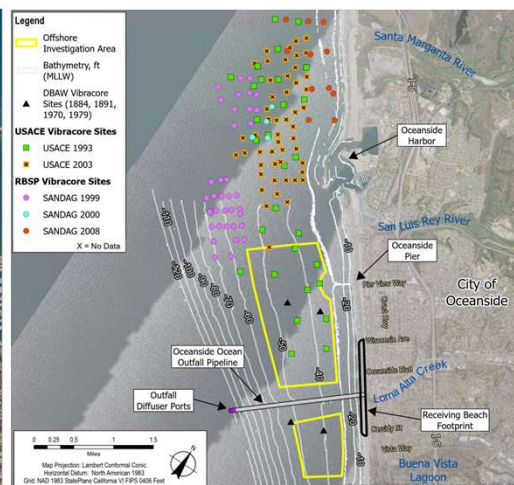
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DEVELOP BEACH NOURISHMENT PROGRAM

Sand Delivery System

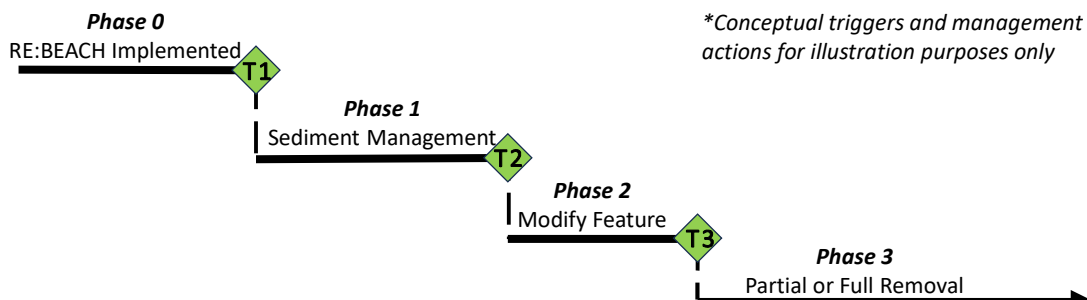


Offshore Investigation



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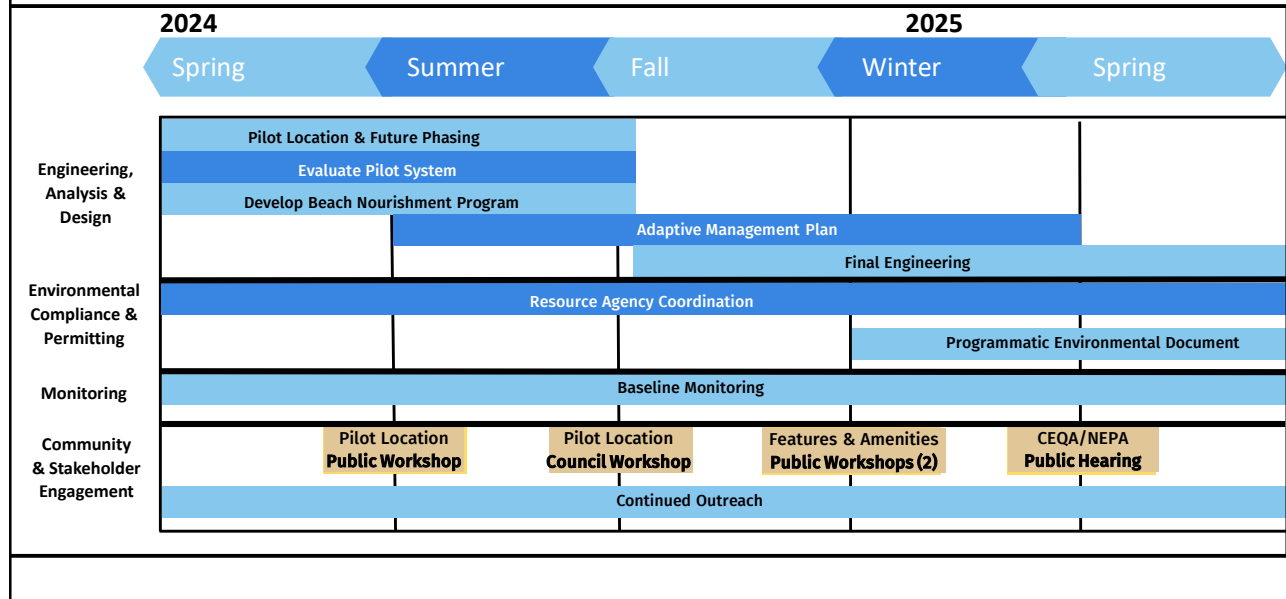
CONCEPTUAL ADAPTIVE MANAGEMENT APPROACH



	Trigger	Action
T1	Measured reduction of beach width >Xft (over X years)	Add sediment downcoast of RE:BEACH feature; Analyze shorezone volume changes
T2	Shorezone volume significantly decreased beyond natural variability	Shrink, enlarge, change angle/orientation of feature, consider adding sediment downcoast once or programmatically
T2	Measured increase of beach width >Xft (over X years)	
T3	Persistent erosion (over X years) exceeds standard deviation from natural variability	Removal of some or all fixed aspects of feature
T3	Accretion and retention exceeds Xft of beach width (over X years)	Consider partial removal, fixed bypass system, and other modifications

12

PROJECT TIMELINE



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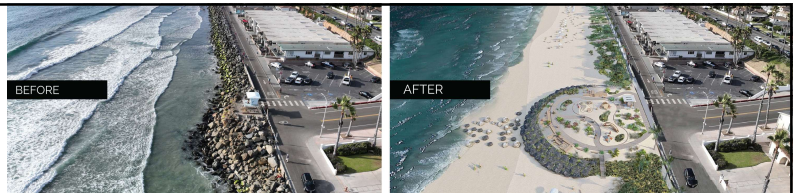
BIG THANK YOU!

Project Team

- GHD
 - Brian Leslie, Senior Coastal Scientist
 - Nick Sadrpour, Senior Coastal Scientist
- Resilient Cities Catalyst (RCC)
 - Sam Carter, Founder/Principal
- International Coastal Management (ICM)
 - Aaron Salyer, Principal and Director

Competition Finalists

- Deltares/MVRDV
- SCAPE/ESA



www.rebeach.org



Project Collaborators

- SANDAG and SPWG Chair, Dwight Worden
- All Jury Members
 - California Coastal Commission
 - Oceanside Boardrider's Club
 - Surfrider
- Save Oceanside Sand
 - Beach surveys
 - Education and outreach
- San Diego Regional Climate Collaborative (SDRCC)

14