



Shoreline Preservation Working Group Agenda

Thursday, April 3, 2025

11:30 a.m.

Welcome to SANDAG. The Shoreline Preservation Working Group (SPWG) meeting scheduled for Thursday, April 3, 2025, will be held in person in the SANDAG Board Room. While Working Group members will attend in person, members of the public will have the option of participating either in person or virtually.

For public participation via Zoom webinar, click the link to join the meeting: <https://us02web.zoom.us/j/87488753922>

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Public Comments: Members of the public may speak to the SPWG on any item at the time the Working Group 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 | ການຊ່ວຍເຫຼືອດ້ານພາສາພຣີ | 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

MEMBERSHIP

The Shoreline Preservation Working Group (SPWG) advises the Regional Planning Committee on issues related to the implementation of the Shoreline Preservation Strategy, Regional Comprehensive Plan, and Coastal Regional Sediment Management Plan. It has 13 voting members who are elected officials from the coastal and bayfront cities and County of San Diego and representatives from the Port of San Diego and U.S. Navy. Additionally, the SPWG has several non-voting advisory members who are representatives from community groups and organizations, environmental groups, state and federal agencies, and other interested stakeholders.

The SPWG generally meets quarterly at 11:30 a.m. on the first Thursday of the month.

Staff contact: Courtney Becker, (619) 699-6942, courtney.becker@sandag.org

MEMBERS

Carol Seabury

Mayor Pro Tem, City of Imperial Beach

John Spelich

Councilmember, City of Del Mar

Priya Bhat-Patel

Mayor Pro Tem, City of Carlsbad

Michael Inzunza

Councilmember, City of Chula Vista

Amy Steward

Councilmember, City of Coronado

Bruce Ehlers

Mayor, City of Encinitas

Jose Rodriguez

Councilmember, National City

Eric Joyce

Deputy Mayor, City of Oceanside

Jennifer Campbell

Councilmember, City of San Diego

Kristi Becker, Chair

Deputy Mayor, City of Solana Beach

Terra Lawson-Remer

Supervisor, County of San Diego

Dan Malcolm

Commissioner, Port of San Diego

ALTERNATES

Vacant

City of Imperial Beach

Terry Gaasterland

Mayor, City of Del Mar

Tracy Martinez

Councilmember, City of Del Mar

Keith Blackburn

Mayor, City of Carlsbad

Carolina Chavez

Councilmember, City of Chula Vista

Mark Fleming

Councilmember, City of Coronado

Luke Shaffer

Councilmember, City of Encinitas

Marcus Bush

Councilmember, National City

Esther Sanchez

Mayor, City of Oceanside

Joe LaCava

Council President, City of San Diego

David Zito

Councilmember, City of Solana Beach

Vacant

County of San Diego

Eileen Maher

Port of San Diego

Jason Golumbskie-Jones
U.S. Navy

TECHNICAL ADVISORS

Kanani Leslie
California Coastal Commission

Bryant Chesney
National Marine Fisheries Service

Leslie Hart
State Department of Fish and Wildlife

Darren Smith
State Department of Parks and Recreation

Kenneth Foster
State Lands Commission

Heather Schlosser
U.S. Army Corps of Engineers

Vacant
State Department of Boating and Waterways

Jessica Curran
U.S. Navy

COMMUNITY ADVISORS

Steve Aceti
California Coastal Coalition

Vacant
California Lobster and Trap Fishermen's Association

Marco Gonzalez
Coastal Environmental Rights Foundation

Reinhard Flick
Scripps Institute of Oceanography

Michael Connolly
Southern California Tribal Chairmen's Association

Mitch Silverstein
Surfrider Foundation

Reece Allen
Caltrans

Vacant
Cross-Border Community Organization

Vacant
Environmental Justice Community Organization

Shoreline Preservation Working Group

Thursday, April 3, 2025

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

Michael Garcia, SANDAG

Approve

The SPWG is asked to approve the minutes from its Thursday, December 5, 2024 , meeting.

[Meeting Minutes](#)

Reports

+3. Shoreline Management Program 101

Keith Greer, SANDAG

Information

Staff will present an overview of SANDAG's Regional Shoreline Management Program, its accomplishments, and next steps.

[Shoreline Management Program 101](#)

[Att. 1 - SPWG Charter](#)

[Att. 2 - Got Sand, Infobit](#)

[Presentation](#)

+4. Regional Beach Sand Project III Phase 1 - Draft Preliminary Planning Activities Results

Courtney Becker, SANDAG

Discussion

The Shoreline Preservation Working Group members will be briefed on the status and next step related to the Regional Beach Sand Project III.

[Regional Beach Sand Project III Phase 1 - Draft Preliminary Planning Activities Results](#)

[Att. 1 - Proposed Sand Volumes](#)

[Att. 2 - USACE Letter of Intent](#)

[Presentation](#)

+5. City of Oceanside's Pilot Sand Retention Project: RE:BEACH

Information

Jayme Timberlake, City of Oceanside

The Shoreline Preservation Working Group members will be presented an overview and updates on the City of Oceanside's RE:BEACH project.

[City of Oceanside's Pilot Sand Retention Project: RE:BEACH](#)

[Att. 1 - REBEACH Project Summary](#)

[Att. 2 - NCCWG May 6 Agenda](#)

[Presentation](#)

Adjournment

6. Adjournment

The next SPWG meeting is scheduled for Thursday, June 5, 2025, at 11:30 a.m.

+ next to an agenda item indicates an attachment

April 3, 2025

December 5, 2024, Meeting Minutes

[View Meeting Video](#)

Jennifer Williamson, SANDAG, called the meeting of the Shoreline Preservation Working Group (SPWG) to order at 11:30 a.m.

1. Public Comments/Communications/Member Comments

Public Comments: Tom Cook, Katheryn Rhodes.

Member Comments: Mitch Connolly (Surfrider Foundation).

Agency Comments: None.

Consent

2. Approval of Meeting Minutes

The SPWG was asked to approve the minutes from its Thursday, September 5, 2024, meeting.

Public Comments: None.

Action: Upon a motion by Councilmember Mike Donovan (City of Coronado), and Council President Pro Tem Joe LaCava (City of San Diego), the SPWG voted to approve the Consent Agenda.

The motion passed.

Yes: Councilmember Donovan, Council President Pro Tem LaCava, Councilmember Kellie Hinze (City of Encinitas), Councilmember Eric Joyce (City of Oceanside), Deputy Mayor David Zito (City of Solana Beach), Eileen Maher (Port of San Diego), and Jessica Curan (U.S. Navy).

No: None.

Abstain: None.

Absent: Carlsbad, Chula Vista, County of San Diego, Del Mar, Imperial Beach, and National City.

Reports

3. Sediment Management Technical Taskforce - Oceanside Littoral Cell Recommendations

Senior Regional Planner Keith Greer presented the item. The SPWG was asked to provide feedback on the proposed recommendations made by the Sediment Management Technical Taskforce.

Public Comments: Jayme Timberlake, Kathryn Rhodes.

Action: Discussion.

4. State of California Sea Level Rise Guidance: 2024 Science and Policy Update

Justine Kimball, California Ocean Protection Council, presented an overview on the recent science and policy updates made to the State of California Sea Level Rise Guidance.

Public Comments: Kathryn Rhodes, Bob.

Action: Information.

5. City of San Clemente Beach Nourishment Project Updates & Half-Cent Sales Tax Funding Measure

Andy Hall and Leslea Meyerhoff, City of San Clemente, presented an update on the City's sand nourishment projects and recent half-cent sales tax.

Public Comments: None.

Action: Information.

6. Adjournment

The next SPWG meeting is scheduled for Thursday, March 6, 2025, at 11:30 a.m.

Keith Greer adjourned the meeting at 1:14 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	No
	Vacant	n/a
City of Coronado	Councilmember Mike Donovan	Yes
	Councilmember John Duncan	No
City of Del Mar	Vacant	n/a
	Councilmember Terry Gaasterland	No
City of Encinitas	Councilmember Kellie Hinze	Yes
	Deputy Mayor Joy Lyndes	No
City of Imperial Beach	Councilmember Mitch McKay	No
	Mayor Paloma Aguirre	No
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	Council President Pro Tem Joe LaCava	Yes
	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	Carrie Berner	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

April 3, 2025

Shoreline Management Program 101

Overview

With about 70 miles of coastline, San Diego is known world-wide for its dramatic shoreline and beautiful beaches. However, with increasing global temperatures and rising sea-levels, policy makers are challenged with figuring out how to sustain San Diego's beaches and address new threats to coastal infrastructure. As a response to these threats, SANDAG established the Shoreline Preservation Working Group (SPWG) in the 1980s to address regional shoreline erosion and shoreline preservation issues through policy, planning and the implementation of climate adaptation projects (Attachment 1).

Over the span of 40 years, the SPWG has been key in the adoption of regional shoreline policy documents, establishment and implementation of a regional shoreline monitoring program, and completion of two regional beach sand nourishment projects to provide protection against coastal erosion and flooding (Attachment 2). This report provides an overview on what the program has accomplished and next steps.

Action: Information

Staff will present an overview of SANDAG's Regional Shoreline Management Program, its accomplishments, and next steps.

Fiscal Impact:

The program is funded annually by the local coastal jurisdictions as part of SANDAG's Overall Work Program (OWP) and grant funding.

Schedule/Scope Impact:

None.

Key Considerations

- SANDAG has adopted four shoreline policy documents to address regional shoreline issues: [Shoreline Preservation Strategy for the San Diego Region](#) (1993), [Regional Beach Sand Retention Strategy](#) (2001), [Sand Compatibility and Opportunistic Use Program Plan](#) (2006) and [Coastal Regional Sediment Management Plan](#) (2009).
- Since 1996 SANDAG has implemented a [Regional Shoreline Monitoring Program](#) to track coastal erosion and sand migration over time.
- SANDAG has implemented two regional beach nourishment projects in 2001 and 2012 ([Regional Beach Sand Project I and II](#)), which placed a total of 3.6 million cubic yards of sand on severely eroding beaches in the region. The regional shoreline monitoring efforts have documented the need for a third regional beach nourishment project.
- In 2022, SANDAG initiated preliminary planning activities (Phase I) for a Regional Beach Sand Project III. Phase I would include a Feasibility Study and Economic Analysis for nourishment located in all eight coastal cities in San Diego and two Orange County cities (Cities of Dana Point and San Clemente) who chose to participate. Phase I is funded by the participating local jurisdictions.
 - On April 3, 2025, the draft Feasibility Study and Economic Analysis Report will be distributed to the participating coastal cities for review. The final Feasibility Study and Economic Analysis Report will be completed in July 2025.
 - Future phases include design, engineering and environmental clearance (Phase II) and construction and monitoring (Phase III). In February, SANDAG applied for a grant from the Department of Boating and Waterways to fund Phase II. SANDAG has initiated discussions with the U.S. Army Corps of Engineers for possible implementation of Phase III.

- In early 2023, the SPWG formed a Technical Taskforce to discuss the latest scientific understanding related to sand movement and sediment management. The Taskforce made several recommendations to the SPWG including:
 - Update and combine four outdated SANDAG Shoreline Policy documents into one plan that reflects current science and identifies data gaps,
 - Form a science and engineering taskforce to guide the proposed Shoreline Policy update,
 - Seek funding to perform a Sand Tracer Study to analyze exactly where sand moves within specific reaches along the coastline,
 - Develop regional consensus on the location of one pilot sand retention project,
 - Develop an open data portal that combines Scripps and SANDAG shoreline data,
 - Develop regional consensus to install and monitor at least one pilot sand retention project, and;
 - Develop and maintain a regional Sand Compatibility Opportunistic Use Permit (SCOUP).
- In 2024, the five counties that comprise southern California formed the Southern California Sand Collaborative to collaborate on beach nourishment and shoreline management issues from Point Conception to the U.S.-Mexican border.

Next Steps

During the remainder of FY 2025 and into FY 2026, the Regional Shoreline Management Program is: 1) continuing the Regional Shoreline Monitoring Program data collection; 2) finalizing the Regional Beach Sand Project III preliminary planning activities; and 3) seeking funding to update and combine the outdated SANDAG Shoreline Policy documents into one comprehensive plan.

Keith Greer, Deputy Director of Regional Planning

Attachment: 1. Shoreline Preservation Working Group Charter
 2. Got Sand? Infobit



WORKING GROUP CHARTER

SHORELINE PRESERVATION WORKING GROUP

PURPOSE

The purpose of the Shoreline Preservation Working Group (SPWG) is to provide technical expertise, background knowledge and cross-agency coordination on regional shoreline issues with the goal to promote sand preservation on all beaches in the three littoral cells of the region and to promote best practices for adapting to sea level rise within the coastal and bay front cities.

RESPONSIBILITIES

The SPWG provides an institutional forum and structure for regional stakeholders to:

(1) collaborate, coordinate and peer exchange solutions to address issues related to beach sand preservation and sea level adaptation strategies; (2) provide a regional collaboration among the coastal jurisdictions and stakeholders on coastal resilience policy and projects; (3) promote best practices and technical assistance that helps local jurisdictions align regional shoreline preservation strategies with local policies and programs; and (4) continue to support region's regional beach nourishment efforts and the Regional Coastal Shoreline Monitoring Program. The SPWG also provides SANDAG staff and the Regional Planning Committee (RPC) input and recommendations on preparation and implementation on the Sustainable Communities Strategy of the Regional Plan.

SPWG activities are identified through annual workplans developed by SANDAG in coordination with the SPWG.

LINE OF REPORTING

The SPWG will make recommendations to SANDAG staff and the Regional Planning Committee (RPC).

MEMBERSHIP

The SPWG has thirteen voting members which include one voting representative from each of the bayfront and coastal cities, the County of San Diego, the San Diego Unified Port District and the U.S. Navy. In addition, the SPWG includes non-voting: (1) technical advisors from the California Coastal Commission, State Department of Fish and Wildlife, State Department of Parks and Recreation, State Lands Commission, National Marine Fisheries Service, the U.S. Army Corps of Engineers; and (2) community advisors from the Southern California Tribal Chairmen's Association, non-profit coastal advocacy groups, environmental justice/climate equity community, lobster and fishing associations, and the Scripps Institution of Oceanography.

CHAIR

The Chair of the RPC will appoint a member of the SPWG representing one of the bayfront and coastal cities to serve as Chair of the SPWG for a period of one year. In the event that the Chair is unavailable to perform these duties, the SPWG coordinator shall act in place of the Chair.

MEETING FREQUENCY

The SPWG will meet every quarter or as needed. Meetings shall be noticed according to and shall otherwise fully comply with the Ralph M. Brown Act.

DURATION OF EXISTENCE

The SPWG will function on an on-going basis, subject to annual review by the SANDAG Executive Committee.

SANDAG Infobits

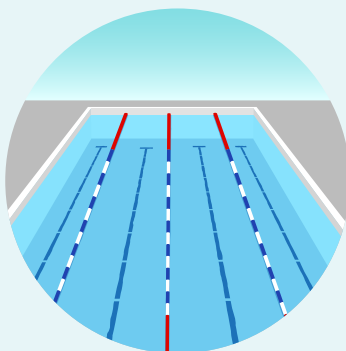
Got Sand? Why Our Beaches Need TLC

July 2020

Did you know?



Coastal erosion, a reduction in sediment from inland waterways, and rising sea levels threaten our region's beaches.



Since 2001, SANDAG has placed approximately **3.6 million cubic yards** of beach quality sand onto our region's beaches. That's enough sand to fill **1,100 Olympic-size swimming pools!**



Sea level rise poses a **threat to our coastal transportation facilities**, including the railroad on top of the Del Mar Bluffs, which could impact the movement of goods and people in our region.

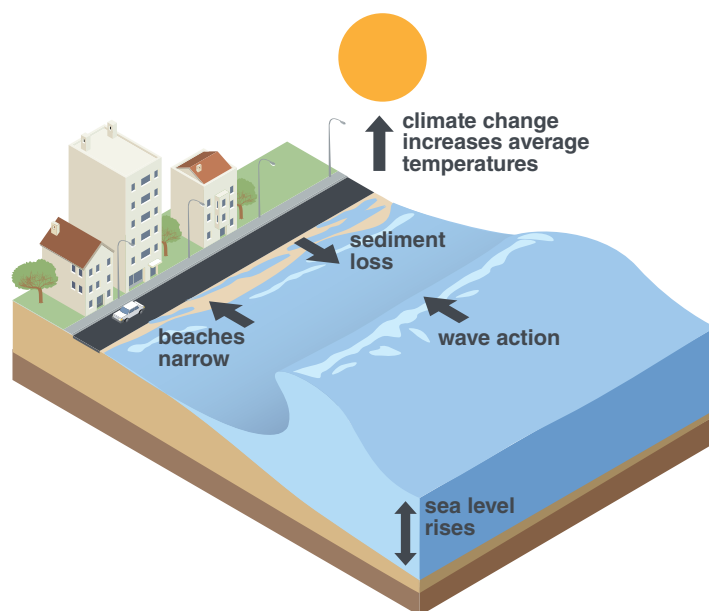
With about 70 miles of coastline, the beaches in the San Diego region are enjoyed by locals and tourists alike. But many people are unaware that policy makers are working to ensure our beaches are maintained and sustainable for years to come.

Why are our beaches at risk? Erosion is a continuous process in which rock, soil, and other materials are worn away and transported by natural forces such as wind and water. California's shorelines are steadily eroding and development has decreased the natural supply of sand that helps to sustain our beaches. Rising sea levels exacerbate this issue and create new threats to the coastline and coastal infrastructure including the second busiest rail corridor in the nation linking San Diego to Los Angeles and San Luis Obispo.

Since the 1980s, the SANDAG Shoreline Preservation Working Group has advised the SANDAG Regional Planning Committee, one of the five SANDAG policy committees that advises the SANDAG Board of Directors.

Thanks to the work of the Shoreline Preservation Working Group, during the last 25 years SANDAG has developed regional sediment management policies, managed an ongoing shoreline monitoring program, and completed several projects to maintain local beaches and coastlines.

Beach Erosion



Key actions include:

- Development of the [Shoreline Preservation Strategy \(1993\)](#) which recommends beach nourishment as the primary shoreline management strategy to address critical erosion areas on the scale of approximately 30 million cubic yards (cy) of sand across the region for initial restoration and nearly 400,000 cy/ year thereafter for maintenance.
- Creation of the [2001 Sand Retention Strategy](#) which concluded that structures that help keep sand on the beach, such as groins, breakwaters, or reefs, have the potential to increase the cost-effectiveness of beach nourishment activities.
- Preparation of yearly beach monitoring reports as part of the [Regional Shoreline Monitoring Program](#). Did you know that most beaches in the San Diego region were at least 20 ft wider prior to the start of the 2015–2016 El Niño than they were before the 1997–1998 El Niño? Wider beaches may have helped to reduce storm impacts in 2015–2016 winter months.
- Implementation of two regional beach sand nourishment projects in [2001](#) and [2012](#) (RBSP I and RBSP II, respectively) that placed a total of 3.6 million cy of sand on badly eroding local beaches.
- Development of the [Regional Transportation Infrastructure Sea Level Rise Assessment and Adaptation Guidance](#) (2020) to examine how sea level rise may impact regional coastal transportation facilities and determine possible ways to adapt to future conditions.



To learn more about the efforts SANDAG and its partners are taking to ensure the region's natural resources are maintained, please visit sandag.org/shoreline

About infobits

SANDAG serves as the region's clearinghouse for information and data. InfoBits publish timely, relevant information informing the public while providing context on complex issues facing the region.

sandag.org



Shoreline Management Program 101

Shoreline Preservation Working Group | Item 3
Keith Greer, Deputy Director of Regional Planning
Thursday, April 3, 2025

1

Shoreline Preservation Working Group Since 1980's

Over **22 million visitors** per year visit the San Diego region's beach generating over **\$2.4 BILLION** per year in beach spending



SANDAG | 2

2

1983 El Nino

Unprecedented Storm Damage in California

Oceanside Strand,
El Nino Winter of 1983



Crystal Pier Storm Damage



SANDAG | 3

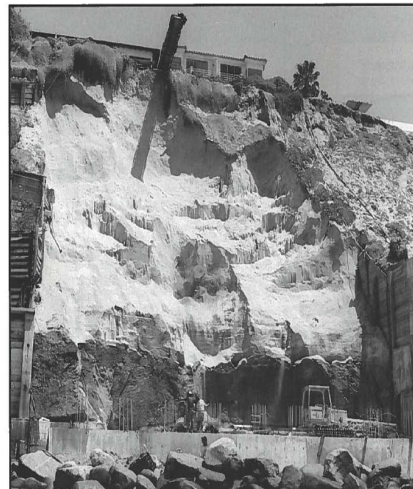
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Proliferation of Seawalls

Leucadia in 1991



Leucadia in 1992

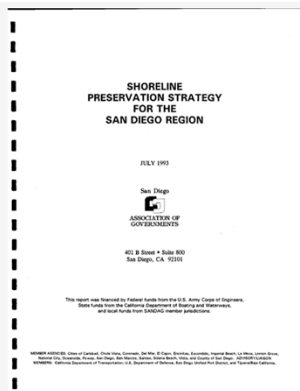


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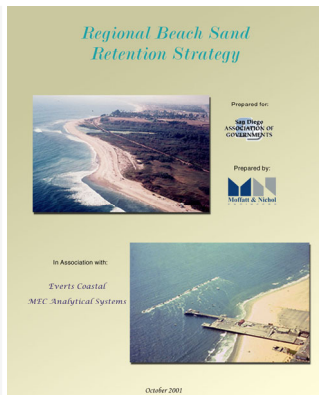
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SANDAG Policy Documents

July 1993



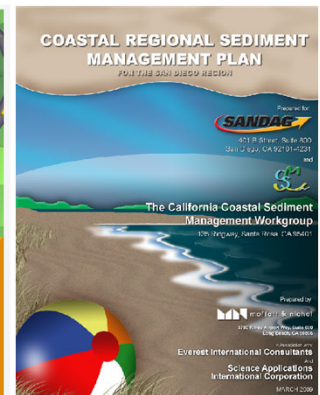
October 2001



March 2006



March 2009

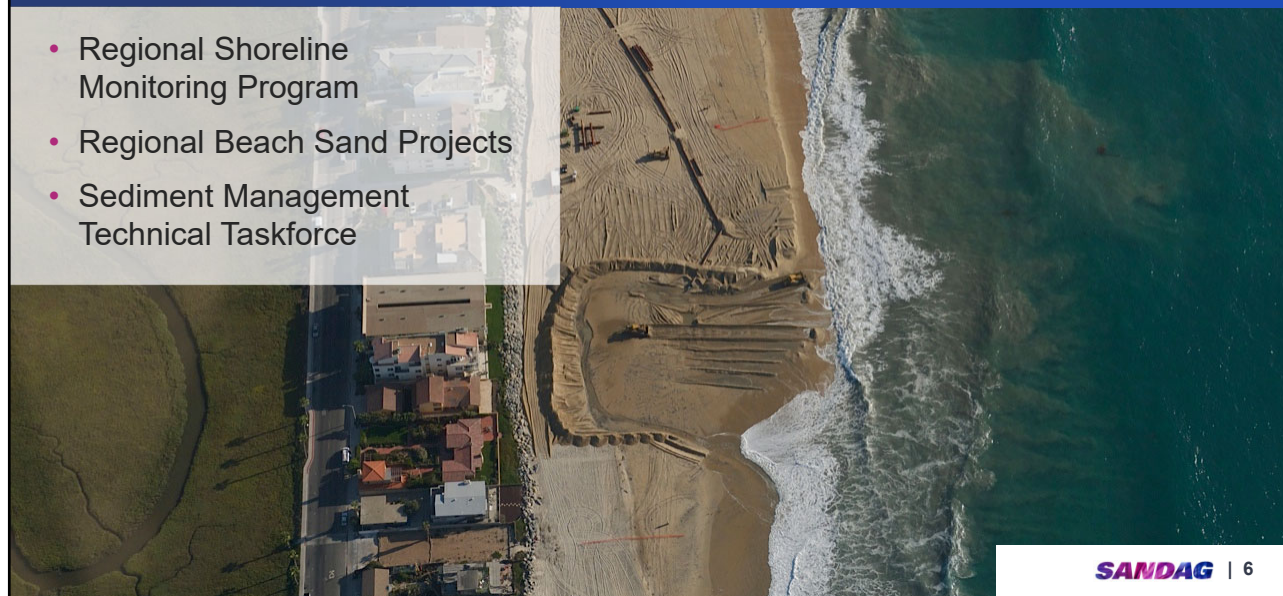


SANDAG | 5

5

Shoreline Preservation Working Group (Current Work)

- Regional Shoreline Monitoring Program
- Regional Beach Sand Projects
- Sediment Management Technical Taskforce



SANDAG | 6

6

Regional Shoreline Monitoring Program

Est. since 1996

Purpose: measure the changes in beach width and nearshore sand volume over time to evaluate the change in erosion, sand transport and document the benefits of sand replenishment projects



Annual Reports

SANDAG

COASTAL FRONTIERS



2023 REGIONAL BEACH MONITORING PROGRAM

ANNUAL REPORT

Coastal Frontiers Corporation
16254 Federal Street
Monterey, CA 93921
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Regional Beach Sand Projects I & II



2001 – Regional Beach Sand Project

- 2.2 million cubic yards of sand
- Cost \$18 million
- Jurisdiction's paid for Planning
- Engineering, Environmental and Construction
 - 60% Federal Funding & 40% State Funding



2012 – Regional Beach Sand Project II

- 1.4 million cubic yards of sand
- Cost \$26 million
- Jurisdiction's paid for Planning
- Engineering, Environmental and Construction
 - 85% State Funding & 15% Local Funding

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The 3 Stages of RBSP III



Phase I
Planning, Feasibility &
Economic Analysis



Phase II
Engineering & Environmental



Phase III
Construction & Monitoring

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Sediment Management Technical Taskforce Recommendations

- 1) Update & combine SANDAG Shoreline Policy documents into one plan
 - Reflect current science and identified data gaps
 - Use RBSP III studies to update nourishment and sand retention strategy
 - Nourishment Program not "one-off" projects
 - Form science and engineering taskforce to guide plan development
 - Include S. California peer agencies as advisors
- 2) Continue the Regional Shoreline Monitoring Program data collection and publications
 - Seek funding to create an open data portal for the 28+ years of data
- 3) Develop and maintain regional Sand Compatibility Opportunistic Use Permit (SCOUP)



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SPWG Charter

Purpose:

is to provide technical expertise, background knowledge and cross-agency coordination on regional shoreline issues with the goal to promote sand preservation on all beaches in the three littoral cells of the region and to promote best practices for adapting to sea level rise within the coastal and bay front cities.

Meeting Frequency:

Quarterly, first Thursday of the month

Membership:

- 8 Coastal Cities & 2 Bayfront Cities
- County of San Diego
- US Navy & Port of San Diego
- 16 Technical & Community Advisory Members

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Program Manager: Keith Greer



Email: Keith.Greer@sandag.org



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April 3, 2025

Regional Beach Sand Project III: Phase 1 – Draft Preliminary Planning Activities

Overview

SANDAG has led two regional beach nourishment projects in 2001 and 2012. Based on the results of regional shoreline monitoring, a third regional nourishment project is needed. At the request of the coastal jurisdictions, SANDAG has developed the necessary steps and funding requirements for a third regional beach sand project (RBSP III). The first step, referred to as Phase 1, would update the 2007 planning studies performed for RBSP II for the eight coastal cities in the San Diego region. These studies will also include two Orange County cities (San Clemente and Dana Point) that are in the Oceanside littoral cell¹ and requested to participate in RBSP III. SANDAG staff will present the results from the draft Feasibility Study and Economic Analysis Report that will be released for a 45-day review to the participating cities after the meeting concludes.

Action: Discussion

The Shoreline Preservation Working Group members will be briefed on the status and next step related to the Regional Beach Sand Project III.

Fiscal Impact:

None. Phase 1 of RBSP III has been funded by the ten participating local jurisdictions. Grants are being sought for future phases.

Schedule/Scope Impact:

The draft Feasibility Study and Economic Analysis will be released to participating coastal cities for a 45-day review period.

Key Considerations

- A total of 5,853,000 cubic yards (CY) is proposed for RBSP III with 4,303,000 CY to be placed on 15 beaches in San Diego and 1,550,000 CY to be placed on 3 beaches in Orange County. Receiver sites and volumes were based upon previous nourishment efforts and jurisdictional input. For San Diego County, this represents almost three times as much sand as placed on the beach during RBSP II.
- The Economic Analysis Report prepared for RBSP III follows federal agencies methodologies. The combined Benefit-Cost Ratio (BCR) for RBSP III was 5.7, which is well above the greater than 1 cost effectiveness requirement. For San Diego County, the benefits for nourishing the 15 beaches along the coastline of San Diego in total will generate over \$1.6 billion in economic benefit over the next 10 years.
- Some lessons learned from the past RBSPs include looking at ways to reduce the high cost of mobilization and demobilization of a hopper dredge through a purchase or long-term lease, seeking to develop a program with a cycle of nourishment efforts similar to the U.S. Army Corps of Engineers (USACE) San Diego, CA (Encinitas-Solana Beach) Coastal Storm Damage Reduction project, and exploring a pilot sand retention project to extend the life of nourishment efforts.
- The draft estimate for Construction and Post-Monitoring for RBSP III, including hard and soft costs, is estimated at \$255 million. While significantly higher than prior RBSPs, the numbers reflect increased

¹ A littoral cell is self-contained compartment within which sand circulates. The San Diego region has three littoral cells that stretch from Dana Point to the U.S.- Mexico border and referred to as the Oceanside, Mission Bay and Silver Strand littoral cells.

inflation, the increase size of the proposed beach nourishment effort, and a 41.5% contingency² for the current level of design.

- SANDAG has applied to the State of California's Division of Boating and Waterways for a Public Beach Restoration grant earlier this year. SANDAG requested \$5,525,000 to fund the Environmental Permitting and Design (Phase 2) for RBSP III. If awarded by the State in Fiscal Year 2027, a 15 percent local match would be required by the participating coastal cities.
- SANDAG is also working to get federal appropriations for the USACE to investigate expanding their current nourishment efforts to cover more beaches in San Diego and Orange County and to include them in a cycle of nourishment efforts over the next 50 years. Earlier this year, SANDAG submitted a letter of intent to the USACE to serve as the local sponsor for the San Diego and Orange County investigation and for the project to be included in their Fiscal Year 2027 workplan (Attachment 2).

Next Steps

The draft Feasibility Study and Economic Analysis Report will be provided the SPWG members and to all participating coastal cities in San Diego and Orange County for a 45-day review period. It is anticipated that the final Report will be provided to the Shoreline Preservation Working Group at the June 5, 2025, meeting.

Keith Greer, Deputy Director, Environmental Compliance and Climate

Attachments: 1. Proposed Sand Volumes
 2. USACE Letter of Intent

² Construction contingencies are necessary to reflect the uncertainty associated with the earlier stages of design. The proposed 41.5% of are in line with recent USACE cost update for the San Diego County, CA (Encinitas – Solana Beach) project for the subsequent renourishment events of 38%.

Comparison of RBSP I, RBSP II, and RBSP III Receiver Sites and Sand Volumes *San Diego*

Receiver Site	RBSP I Quantity Constructed (cy)	RBSP II Quantity Constructed (cy)	RBSP III Quantity Proposed (cy)	Receiver Site Location Compared to RBSP I/RBSP II Footprint
Oceanside	421,000	293,000	1,000,000	Shifted north by approximately 2,000 feet
North Carlsbad	225,000	219,000	240,000	Southern end extended by approximately 500 feet
South Carlsbad	158,000	141,000	300,000	Consistent
Batiquitos	117,000	106,000	118,000	Consistent, but with flexibility to shift by approximately 150 feet south
Leucadia	132,000	Not Included	132,000	Shifted south by approximately 700 feet
Moonlight	105,000	92,000	105,000	Consistent, but with flexibility to shift north or south by approximately 120 feet
Cardiff	101,000	89,000	300,000	Southern end extended by approximately 1,000 feet
Solana Beach	146,000	142,000	300,000	Shifted north by approximately 1,200 feet
Del Mar	183,000	Not Included	183,000	Northern end extended by approximately 1,000 feet
Torrey Pines	245,000	Not Included	245,000	Consistent
Tourmaline Beach	Not Included	Not Included	300,000	New footprint
Mission Beach	151,000	Not Included	450,000	Shifted south and southern end extended by approximately 2,000 feet
Coronado Shores	Not Included	Not Included	200,000	New footprint
Glorietta Bay Beach	Not Included	Not Included	10,000	New footprint
Imperial Beach	120,000	450,000	120,000 on beach; 300,000 nearshore	Consistent with RBSP II Alternative I which was not constructed
TOTALS	2,104,000	1,532,000	4,303,000	Not Applicable

Orange County Receiver Sites and Sand Volumes

Receiver Site	Quantity (cy)
Dana Point	500,000
San Clemente North Beach	250,000
San Clemente State Beach	800,000
Total	1,550,000

**This table is an excerpt from draft Report*



03/05/2025

U.S. Army Corps of Engineers, Los Angeles District
915 Wilshire Boulevard
Los Angeles, CA 90017

Dear Colonel Andrew J. Backer, District Commander:

Subject: Letter of Intent for a General Investigation (Feasibility) Study


The **San Diego Association of Governments (SANDAG)** is willing and able to participate as the Sponsor for the **San Diego and South Orange County Feasibility Study**, in partnership with the U.S. Army Corps of Engineers (USACE), to cooperatively investigate beach nourishment as a solution to combat coastal erosion in the **Oceanside, Mission Bay, and Silver Strand littoral cells with the San Diego and south Orange Counties**.

Our agency understands that a study cannot be initiated unless it is selected as a new start study with associated allocation of Federal funds provided through the annual Congressional appropriations process. If selected, we intend to sign a Feasibility Cost Sharing Agreement (FCSA) to initiate the study with USACE. It is our understanding the FCSA targets completion of the feasibility study within 4 years at a total cost of no more than \$5 million. After signing the FCSA, a Project Management Plan will be developed and agreed upon by our agency and USACE. The study will be conducted and managed by USACE. The cost-sharing for the study is based on a 50% contribution by the Federal government, with our agency's 50% contribution provided in cash, or by a portion or all of the contribution provided through in-kind non-monetary services. It is SANDAG's intention to enter into a memorandum of agreement (MOU) with the ten local coastal jurisdictions interested in participating and funding the study. This MOU will be executed prior to the FCSA between SANDAG and USACE.

Our agency is aware this letter constitutes an expression of intent to initiate a study partnership to address the specified water resources problems and is not a contractual obligation. We understand that work on the study cannot commence until it is included in the Administration's budget request, funds are appropriated by the Congress, and an FCSA is signed. It is understood that we or USACE may opt to discontinue the study at any time after the FCSA is signed but will commit to work together as partners from the scoping phase, and subsequent decision points throughout the feasibility study, on providing the necessary support to risk-informed decision making. If it is determined that additional time or funding is necessary to support decisions to be made in order to complete the study, our agency will work with USACE to determine the appropriate course of action.

If you require additional information, please contact: Courtney Becker at (619) 699-6942 or Courtney.Becker@sandag.org.

Sincerely,


[Keith Greer \(Mar 6, 2025 09:23 PST\)](#)

Antoinette Meier
Senior Director of Regional Planning



Regional Beach Sand Project III

Phase I – Planning Activities

Shoreline Preservation Working Group | Item 4
Courtney Becker, Associate Regional Planner
Thursday, April 3, 2025

1

Purpose of RBSP III

Based on the data
collected by the
Regional Shoreline
Monitoring Program

Grandview Street, Leucadia, 2014



Oceanside Blvd, 2014



Grandview Street, Leucadia, 2024



Oceanside Blvd, 2024



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The 3 Stages of RBSP III



Phase I
Planning, Feasibility &
Economic Analysis



Phase II
Engineering & Environmental



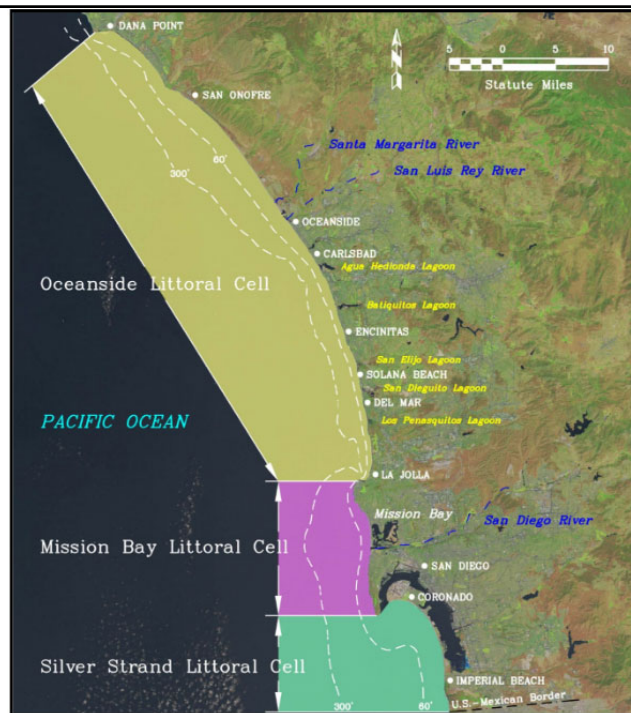
Phase III
Construction & Monitoring

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San Diego and South Orange County Littoral Cells

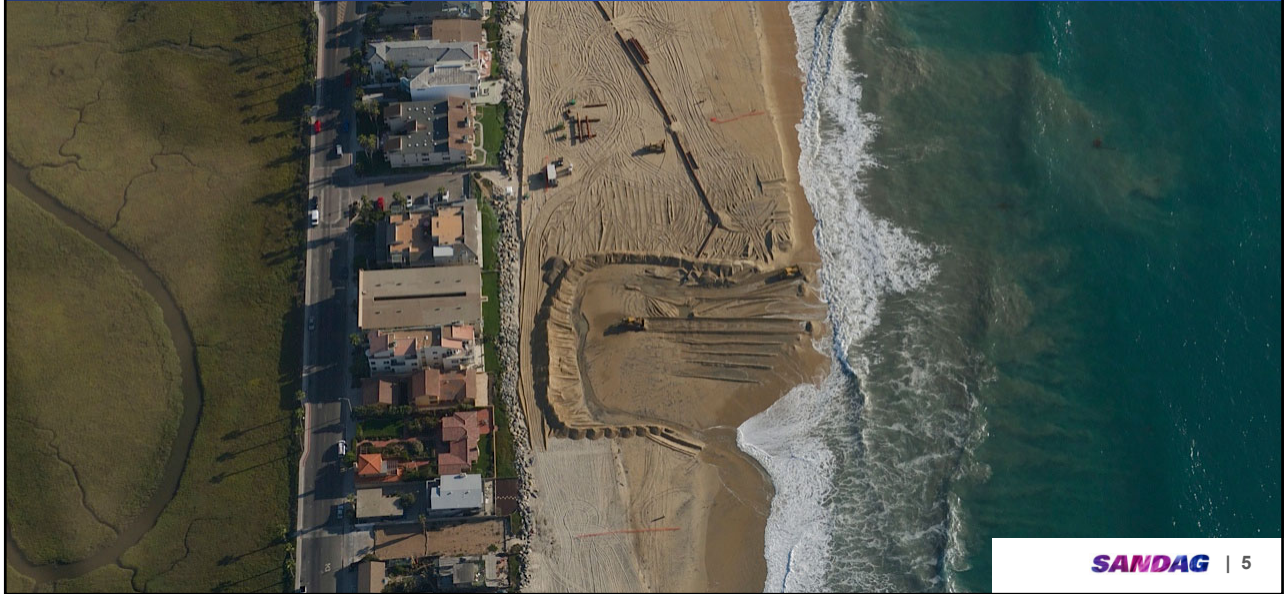
A littoral cell is self-contained compartment with in which sand circulates.



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Draft Phase I Report Results



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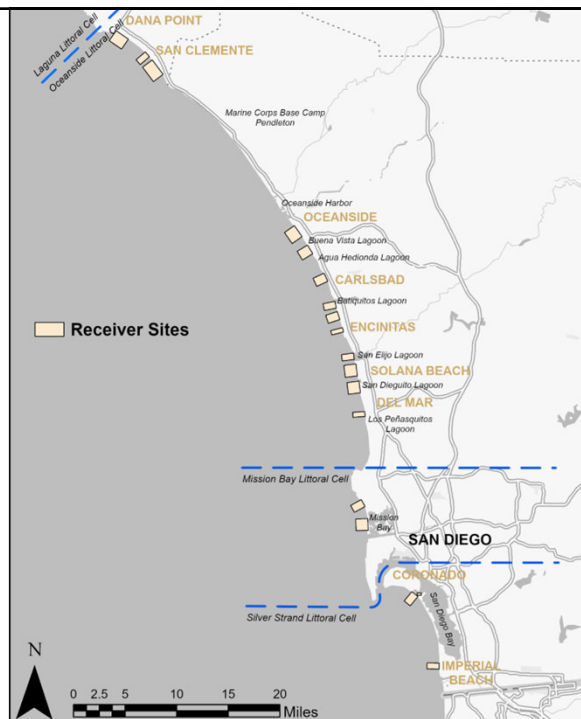
RBSP III Proposed Receiver Sites

San Diego

- 15 Receiver Sites
- 4,303,000 CY

Orange County

- 3 Receiver Sites
- 1,550,000 CY



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Economic Analysis Results

Methodology

- Benefit-Cost Analysis = similar to USACE methodology evaluating economic value of projects by comparing their expected cost and benefits.
- Benefit Cost Ratio (BCR) >1 = Cost Effective

Overall results

- RBSP III BCR = 5.7 (San Diego County BCR = 8.3)
- Nourishing 15 beaches in San Diego will generate **\$1.6 billion** over next **10 years**
- Report concludes, ***“There is a need to maintain San Diego’s beaches to sustain its economy.”***

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Lessons Learned from prior RBSPs

Expand longevity of nourishment by:

- Using coarser grain size
- Design for longer and narrower fill footprints
- Nourish in later summer rather than winter or early spring

Develop a programmatic approach to provide for a cycle of nourishment efforts instead of one-off projects

- Utilize a programmatic environmental document and permits

Explore ways to reduce cost of hopper dredge

- Purchase or long-term lease.
- Seek a dedicated west coast dredge to reduce travel distance

Install a sand retention device in an appropriate location to retain sand for longer periods of time

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Draft Costs for Construction & Post-Monitoring

Dredge Cost	\$20,400,000
Hard Cost	\$160,186,756
Contingency (41.5%)	\$74,943,504
Soft Costs	\$5,425,000
Total:	\$260,955,259

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Seeking Grant Funding

DBW Grant for Phase II

- Applied for \$5,252,000
- State Budget FY 2027
- If awarded, 15 % required non-state match

USACE San Diego & Orange County Investigation – to explore inclusion of all beaches into USACE’s existing Coastal Storm Damage Reduction Project’s programmatic efforts

- WRDA 2024 authorized work
- SANDAG working to include in USACE work plan
- SANDAG provided a Letter of Intent to be the local sponsor
- MOU with participating cities and SANDAG would be required.

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Next Steps



Release Draft Phase I Report to SPWG Members & Staff for Review

Thursday, April 3, 2025



Jurisdictions to Provide Comments by

Monday, May 15, 2025



Comments are Reviewed & Incorporated

May – June 2025



Final Phase I Report is Completed

July 31, 2025

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Project Manager: Courtney Becker



Email: courtney.becker@sandag.org

Phone: (619) 619-6942



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April 3, 2025

City of Oceanside's Pilot Sand Retention Project: RE:BEACH

Overview

The City of Oceanside has been experiencing rapid beach loss, especially since the last regional beach sand nourishment in 2012. To address this, the City of Oceanside released an international design competition to propose innovative sand retention pilot projects to address their city's beach loss. In 2024, the City of Oceanside accepted a winning design concept by the Australian firm ICM to install a "Living Speedbumps" and was unanimously approved by Council. The City of Oceanside staff and their consultants will present an overview of the project and any updates that have been made since approval of the project design and location (Attachment 1).

Action: Information

The Shoreline Preservation Working Group members will be presented an overview and updates on the City of Oceanside's RE:BEACH project.

Fiscal Impact:

None.

Schedule/Scope Impact:

None.

Key Considerations

- In January 2024, Oceanside's City Council voted to advance the ICM project concept into final engineering and permitting. In this next phase, they will continue to seek public input to determine the siting for the pilot project and refine and finalize the design.
- Currently, RE:BEACH is in the Engineering Design and Permitting Phase which is anticipated to be completed in 2026. Construction is anticipated as early as 2026-2027 depending on when project funding.
- Information on the RE:BEACH project can be found at <https://www.rebeach.org/>

Next Steps

Oceanside is looking to initiate a North County Coastal Work Group, which would meet twice a year to discuss North County coastal management projects and long-term planning efforts. Oceanside envisions this would be a staff-level working group, but could include elected officials in these quasi-public, non-Brown Act discussions. The first meeting of the North County Coastal Work Group is on May 6th in Oceanside, from 9:30-11:00 a.m. at the RE:BEACH Oceanside proposed project site (Attachment). Please contact Jayme Timberlake (jtimberlake@oceansideca.org) for questions and to RSVP to the Workgroup event.

Keith Greer, Deputy Director, Environmental Compliance and Climate

- Attachments:
1. RE:BEACH Project Summary
 2. North County Coastal Work Group May 6, 2025 Agenda

RE:BEACH

Since construction of the Camp Pendleton Boat Basin and City's Small Craft Harbor (Harbor Complex), over 21 million cubic yards (cy) of sand have been artificially placed on City beaches from either dredging activity to build the two harbors, the removal of sediment from the San Luis Rey River, the U.S. Army Corps of Engineers annual navigation dredging program or one-off, local or regional beach nourishment events. Despite all these efforts, coastal areas south of Harbor Beach (i.e., south of South Jetty) have been largely unable to sustain a dry sand beach for recreational, ecological and coastal storm damage protection purposes.

In 2020, the City conducted a year-long preliminary engineering evaluation and Feasibility Study to identify deficiencies in current coastal management actions as well as to determine a suite of solutions to lessen long-term beach erosion and mitigate the effects of the Harbor Complex. The Feasibility Study (Phase 1) concluded that 1) a high-quality source of sand, coupled with a beach nourishment program, should be identified to provide more efficient and consistent beach nourishment opportunities, and 2) retention structure(s) are desirable as a means of retaining placed sand, since historical surveys and anecdotal data have shown that placed sand does not persist on most of Oceanside's beaches.

In August 2021, the City Council provided staff direction to pursue the recommendations given in Phase 1. Specifically, staff was directed to move forward with the environmental analysis, design, and permitting of a Phase 2 pilot project that would provide both beach nourishment and sand retention options. To achieve this, the City hosted an eight-month long international public design competition, called RE:BEACH Oceanside Coastal Resilience Design Competition. In January 2024, the City Council voted unanimously to approve moving forward with a Living Speed Bumps concept which included one multi-purpose offshore artificial reef and two headlands, supported by nearshore and onshore beach nourishment. In November 2024, the City Council approved Segment 1 as the siting location of the pilot project, with the two headlands expected to be constructed at Tyson Street Park and at Wisconsin Avenue and an artificial reef constructed offshore between the two headlands (Figure 1).

To support RE:BEACH, the City conducted an offshore sediment investigation in 2024 to determine if suitable beach sand was locally available offshore. Suitable beach sand was identified and a Sampling and Analysis Plan was approved in spring 2024, followed by positive sampling results and ultimate approval to use the locally available offshore materials for beach fill. Other potential sand sources include the MB-1 and SO-5 borrow sites, both used in the SANDAG Regional Beach Sand Project (RBSP) II. These borrow sites were also recently used in the USACE San Diego County Project (Encinitas-Solana Beach Coastal Storm Damage Reduction),

completed in 2024. The same two borrow sites (MB-1 and SO-5) are being considered in the proposed RBSP III project, which is currently in the feasibility phase. Oceanside is planned to participate in the RBSP III through an authorized memorandum, which is slated to deliver approximately 1M cubic yards of suitable beach sand to areas within the RE:BEACH Pilot Project area (between Tyson St. Park and Witherby St.). RBSP III would be complimentary to beach nourishment planned as part of RE:BEACH.

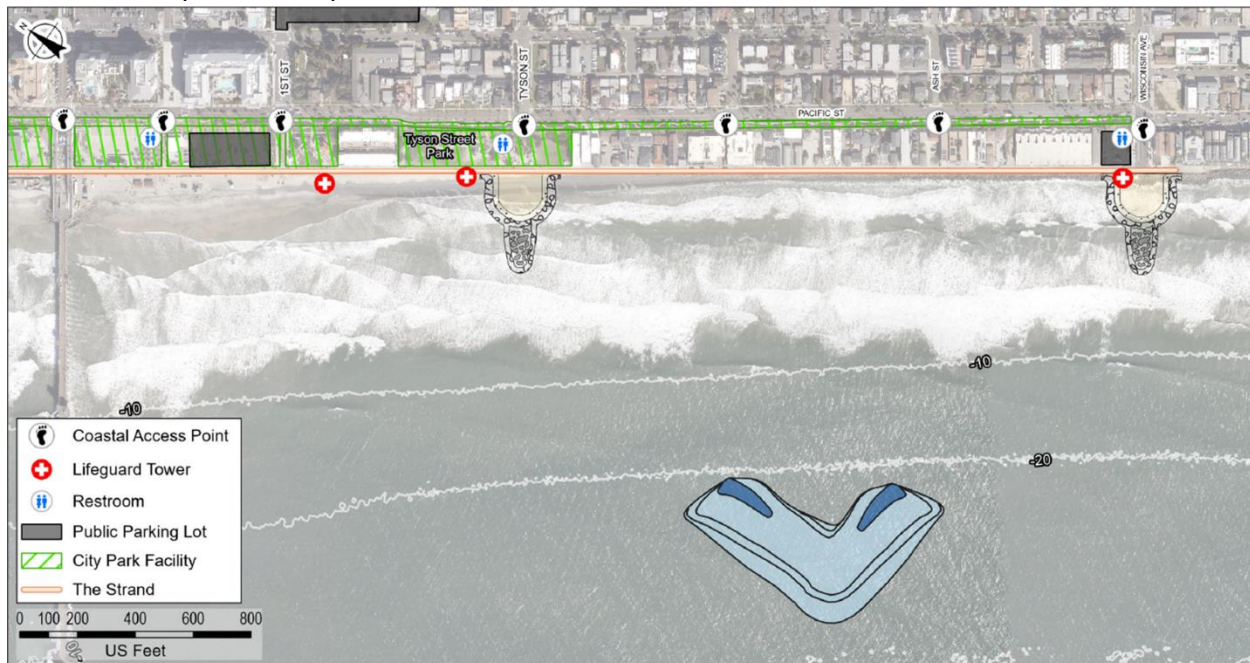


Figure 1. RE:BEACH Pilot Project located at Tyson Street and Wisconsin Avenue.

Note: Project components for illustration purposes only. Dimensions and shapes are likely to change during modeling and engineering design.

Next Steps:

Through 2025 and beyond, the pilot design will progress through enhanced numerical modeling and engineering that is necessary for refining the final design. Planned activities include:

- Sand Delivery System Feasibility Study
- Economic Study on Beaches and Fiscal Analysis
- Numerical and physical modeling of the reef and headlands
- Landscape architectural design of headlands
- Engineering designs and specification for reef and headlands
- Continued outreach and engagement with local/regional communities and agencies
- Continued and expanded baseline monitoring
- Monitoring and Adaptive Management Plan development
- Programmatic environmental document and permitting

Point of Contact:

Jayne Timberlake
Coastal Zone Administrator, City of Oceanside
760-435-3073; jtimberlake@oceansideca.org

North County Coastal Work Group – (DRAFT) Meeting Agenda

May 6th, 2025 (9:30-11:00a)

Tyson St. Park

134 S. Pacific St. (for parking)

Oceanside, CA 92054

Walk down the access stairs to Tyson St. Park (adjacent to the beach)

1. RE:BEACH Oceanside - Open house (9:30-10:15a)

- Meet the RE:BEACH Project Team
- Review poster boards and early designs for the RE:BEACH Oceanside Project
 - i. Ask questions about this novel pilot project
- Public tabling event, with light snacks

2. RE:BEACH Project and Oceanside Dredging – Site tour (10:15-11a)

- Walk and talk about RE:BEACH and sand transport in Oceanside Littoral Cell
 - i. Expect 0.5 mile walk on the Strand (paved road) to the Pier
 - ii. Preview RE:BEACH Oceanside project area
- Experience Oceanside Harbor Channel Maintenance operations
 - i. Watch sand placement operations on the beach



RE:BEACH Oceanside

Shoreline Preservation Working Group

→ SANDAG

April 3, 2025



RE:BEACH

RE:BEACH Background

Beach Sand Feasibility Study (2020 – 2021)

Preliminary Engineering Evaluation

Recommendations

- Beach nourishment program
- Sand retention

Sand Nourishment and Retention Pilot Project (2023-2027)

Community and Stakeholder Engagement

Baseline Monitoring

Engineering, Analysis and Design of a Pilot Project

Environmental Compliance and Permitting

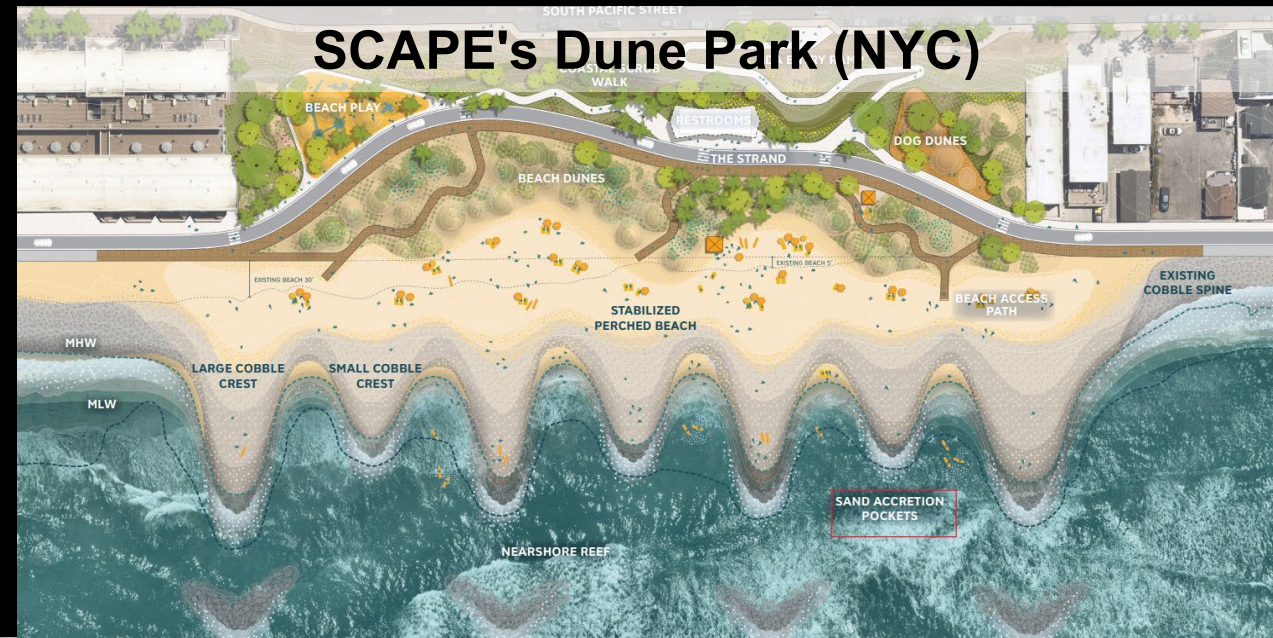


RE:BEACH Objectives

Pilot Project Goals

Restore sandy beaches in Oceanside with an innovative, multi-benefit project

Increase efficiency and extend the benefits of sand management efforts



Winning Design - ICM's Living Speed Bumps (Australia)



Deltares' Green Dream Peninsula (Netherlands)



RE:BEACH Public Workshops

Public Workshop 1

August 2023

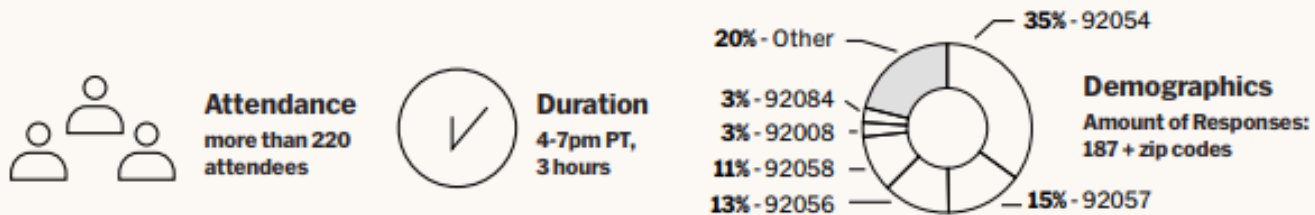


Public Workshop 2

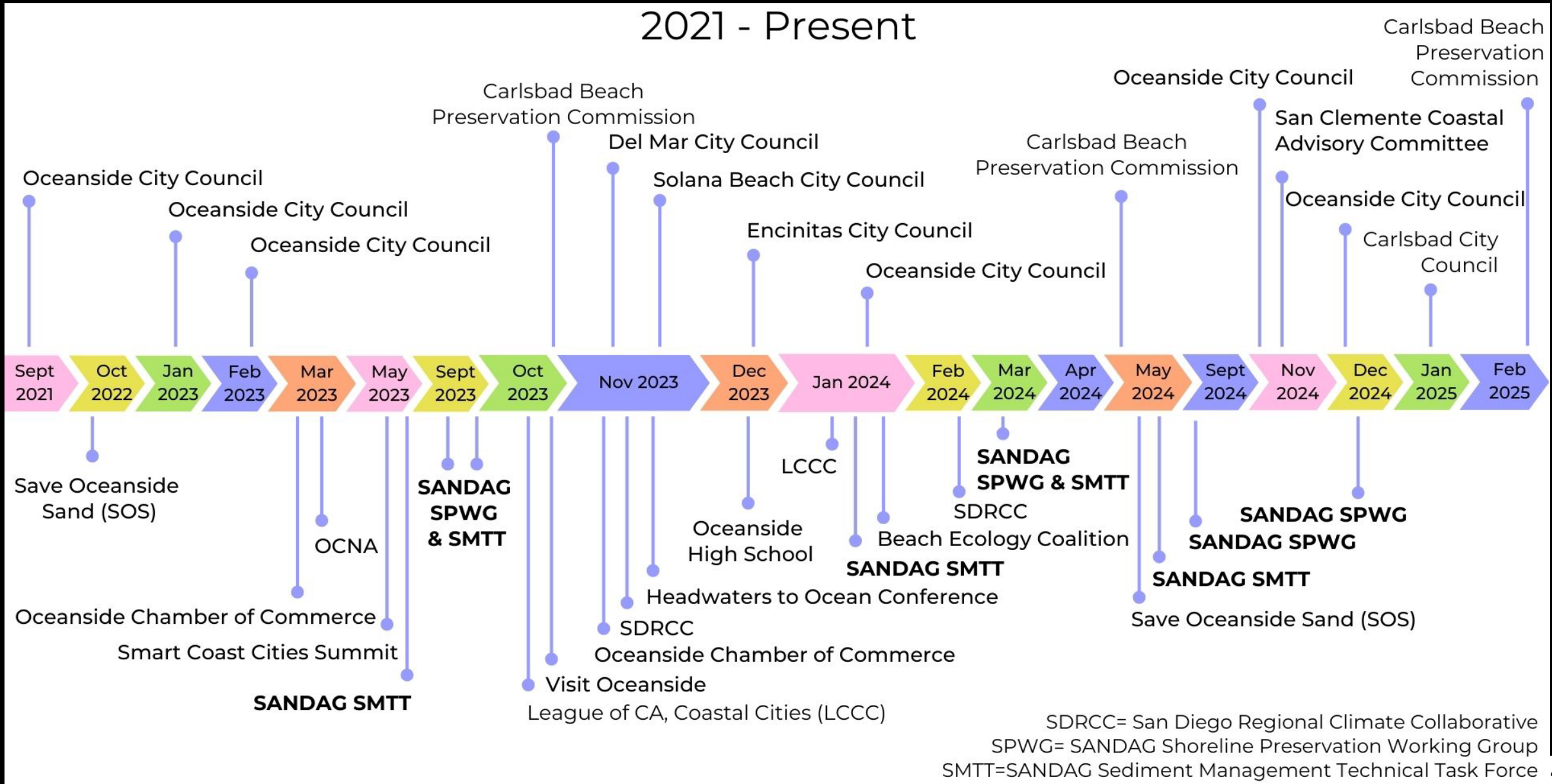
October 2023



Public Workshop 3 December 2023



RE:BEACH Regional Outreach and Collaboration



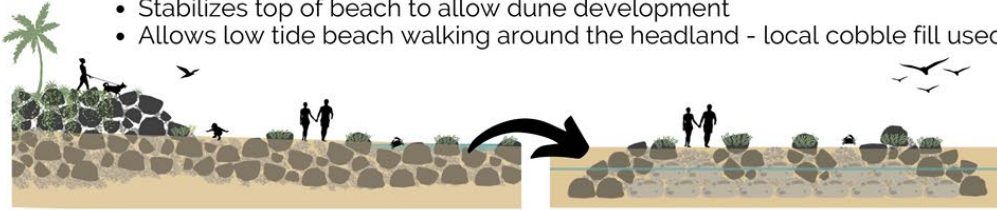
RE:BEACH Design Competition Winner

PROPOSED 'SPEED BUMPS' (TOP & BOTTOM OF BEACH) SCHEMATIC CONCEPTS

A

Living Headland & Low Permeable Berm

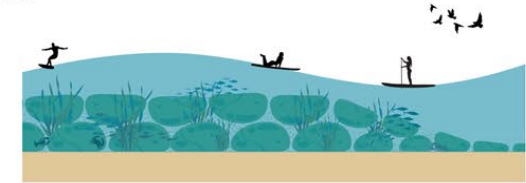
- Based on existing pier headland scale & permeable extension into surf zone (piles)
- Stabilizes top of beach to allow dune development
- Allows low tide beach walking around the headland - local cobble fill used



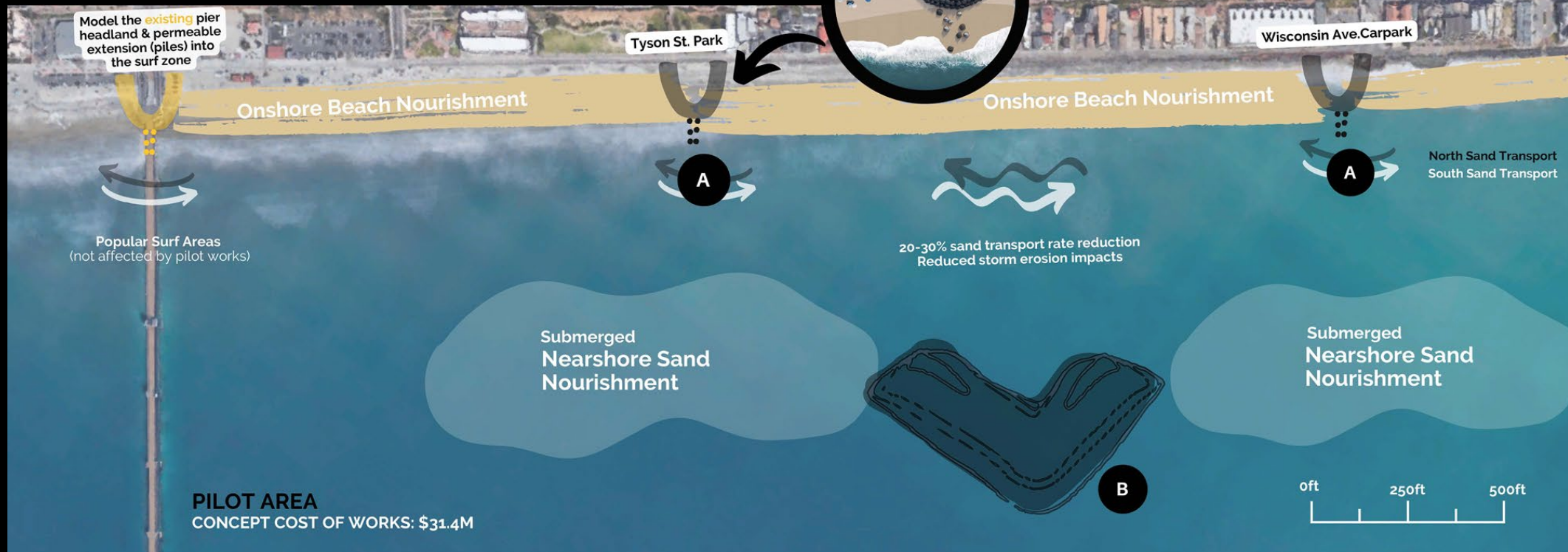
B

Eco-Engineered Reef (Submerged)

- Based on proven Gold Coast examples (20 years+ in similar conditions)
- Improves sandbar retention & reduces beach erosion
- Ecological and surf benefits



PILOT PLAN SCHEMATIC CONCEPT LAYOUT



Evaluated Layouts

Segment 1

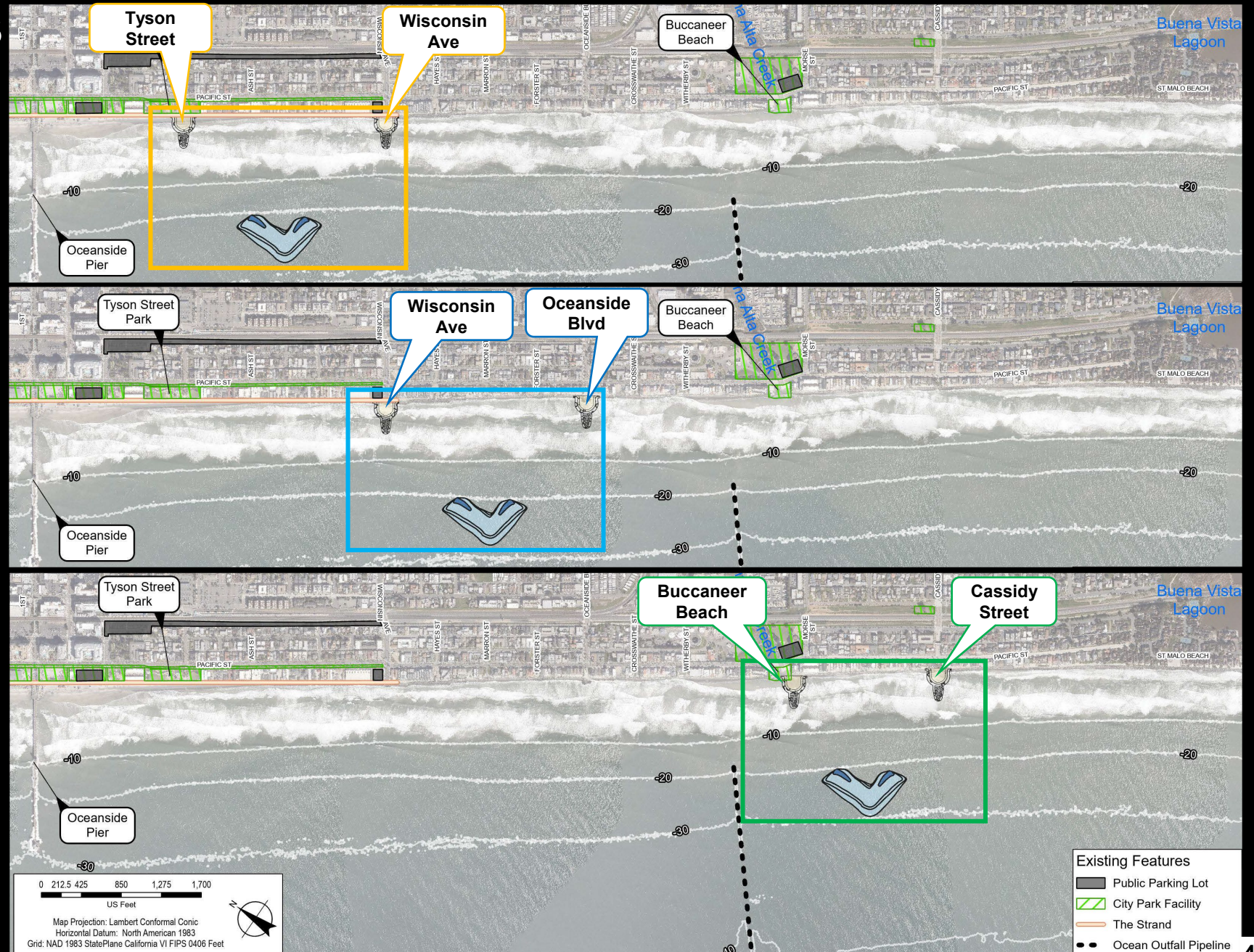
Seagaze Dr.
to Wisconsin Ave

Segment 2

Wisconsin Ave to
(N) Buccaneer Beach

Segment 3

S. Buccaneer Beach to
Buena Vista Lagoon

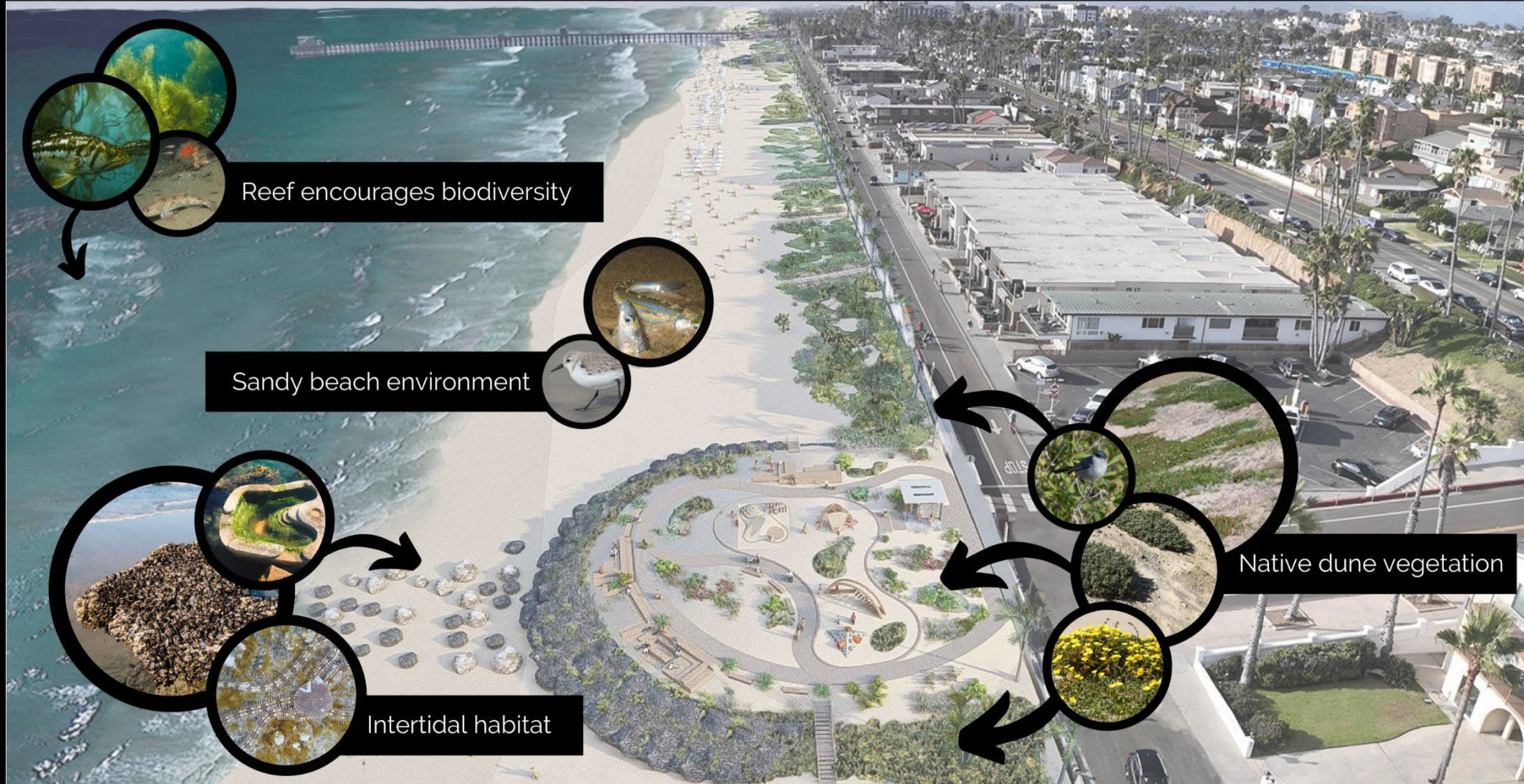


Segment 1 Visualization – Artificial Reef



Segment 1 Visualization – Artificial Headland

ENVIRONMENTAL BENEFITS



RE:BEACH Tasks – Next Steps

Enhanced Modeling

- Site specific numerical modeling
- Anticipate physical modeling to further refine design details

Technical Advisory Committees

- Surfing/Reef/Biological
- Sediment Transport

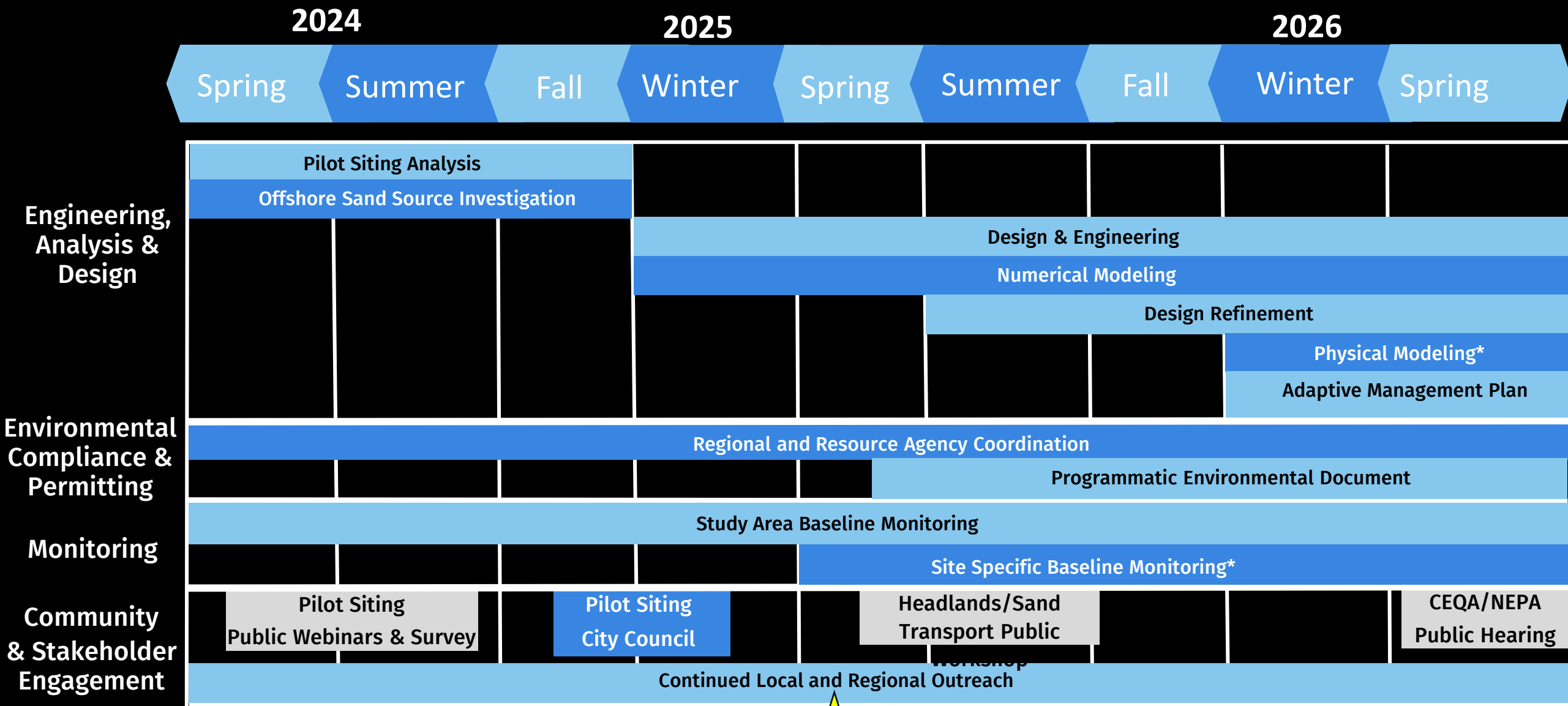
Sediment Investigation and Sand Delivery Feasibility

- Offshore sediment investigation analysis to feed into Beach Nourishment Program development
- Material approved for use on Beach Nourishment Program
- Sand delivery pipeline feasibility assessment

Monitoring

- Baseline monitoring continues through 2027

Project Timeline



Thank you!

REEB BEACH



Jayme Timberlake
Coastal Zone Administrator
jtimberlake@oceansideca.org