CONTRA COSTA COUNTY

AGENDA

Contra Costa Resilient Shoreline Committee

Supervisor Diane Burgis, Chair, District III
Supervisor John Gioia, Vice Chair, District I

Zoom: https://cccounty-us.zoom.us/j/87170445129

Tuesday, February 18, 2025 **2:00 PM** **District 1 Office: 11780 San Pablo Ave. Suite D, El Cerrito, CA 94530 |**

District 3 Office: 3361 Walnut Blvd. Suite 140, Brentwood, CA 94513

ZOOM LINK
https://cccounty-us.zoom.us/j/87279631115

| Dial: 888 278 0254 |
CONFERENCE CODE: 198675

The public may attend this meeting in person at either above locations and/or remotely via call-in or ZOOM.

AGENDA ITEMS

Items may be taken out of order based on the business of the day and preference of the Committee.

1. INTRODUCTIONS

Call to order and roll call.

2. PUBLIC COMMENT

Comments on any item under the jurisdiction of the Committee and not on this agenda (speakers may be limited to two (2) minutes).

3. RECEIVE and APPROVE the Record of Action for the September 9, 2024, Committee Meeting with any necessary revisions. **25-509**

Attachments: 09.09.24 Minutes - DRAFT 2

4. RECEIVE presentation on the San Francisco Estuary Institute's shallow groundwater mapping and Baylands resilience efforts in Contra Costa County and provide direction to staff as appropriate. **25-511**

Attachments: Contra Costa Shallow Groundwater & SLR Resilience - Ellen Plane

5. RECEIVE presentation on the Contra Costa Resilient Shoreline Coalition and provide direction to staff as appropriate. **25-510**

Attachments: 2025_02_18 Contra Costa Resilient Shoreline Coalition Overview

6. RECEIVE the report on Staff Activities supporting the Contra Costa Resilient Shoreline Committee. **25-512**

Attachments: CC Resilient Shoreline Staff Report

7. **ADJOURN until the next Contra Costa Resilient Shoreline Committee meeting to be held on March 10, 2025, at 9:00am.**

GENERAL INFORMATION

This meeting provides reasonable accommodations for persons with disabilities planning to attend a the meetings. Contact the staff person listed below at least 72 hours before the meeting. Any disclosable public records related to an open session item on a regular meeting agenda and distributed by the County to a majority of members of the Committee less than 96 hours prior to that meeting are available for public inspection at:

30 Muir Rd. 2nd Floor
Martinez, CA 94553

HOURS:
Monday through Friday
8 a.m. to 5 p.m.

Staff reports related to items on the agenda are also accessible on line at www.co.contra-costa.ca.us.

HOW TO PROVIDE PUBLIC COMMENT

Persons who wish to address the Committee during public comment on matters within the jurisdiction of the Committee that are not on the agenda, or who wish to comment with respect to an item on the agenda, may comment in person, via Zoom, or via call-in. Those participating in person should offer comments when invited by the Committee Chair. Those participating via Zoom should indicate they wish to speak by using the "raise your hand" feature in the Zoom app. Those calling in should indicate they wish to speak by pushing *9 on their phones.

Public comments generally will be limited to two (2) minutes per speaker. In the interest of facilitating the business of the Board Committee, the total amount of time that a member of the public may use in addressing the Board Committee on all agenda items is 10 minutes. Your patience is appreciated.

Public comments may also be submitted to Committee staff before the meeting by email or by voicemail. Comments submitted by email or voicemail will be included in the record of the meeting but will not be read or played aloud during the meeting.

FOR ADDITIONAL INFORMATION, PLEASE CONTACT:

Ryan Hernandez
(925) 655-2919

File #: 25-509 **Agenda Date:** 2/18/2025 **Agenda #:** 3.

CONTRA COSTA RESILIENT SHORELINE COMMITTEE
Meeting Date: February 18, 2025
Subject: Record of Action from September 9, 2024, Meeting
Submitted For: CONTRA COSTA RESILIENT SHORELINE COMMITTEE
Department: DEPARTMENT OF CONSERVATION & DEVELOPMENT
Presenter: Ryan Hernandez | Principal Planner || DEPARTMENT OF CONSERVATION & DEVELOPMENT
Contact: Ryan Hernandez (925) 655-2919

Referral History:
County ordinance requires that each County body keep a record of its meetings. Though the record need not be verbatim, it must accurately reflect the agenda, and the decisions made in the meeting.

Referral Update:
Attached is the Record of Action for the September 9, 2024, Contra Costa Resilient Shoreline Committee meeting.

Recommendation(s)/Next step(s):
RECEIVE and APPROVE the Record of Action for September 9, 2024, Committee Meeting with any necessary revisions.

Fiscal Impact (if any):
None.

CONTRA COSTA COUNTY

Committee Meeting Minutes - Draft

Contra Costa Resilient Shoreline Committee

Monday, September 9, 2024 **1:00 PM** **District 1 Office: 11780 San Pablo Ave. Suite D, El Cerrito, CA 94530 |**

District 3 Office: 3361 Walnut Blvd. Suite 140, Brentwood, CA 94513

ZOOM LINK
https://cccounty-us.zoom.us/j/87170445129

| Dial: 888 278 0254 |
CONFERENCE CODE: 198675

The public may attend this meeting in person at either above locations and/or remotely via call-in or ZOOM.

AGENDA ITEMS

1. INTRODUCTIONS

Chair Gioia called the meeting to order at 1:09pm.

Staff Present: Ryan Hernandez | CCRS Staff

Attendees: Raquel De La Torre, Nicole Shimizu, District 3 | Brentwood (Brenda Solorio), Dana Brechwald, District 1 | El Cerrito (Tania Pulido), Jan Warren, Aaron Winer, Matthew Brown, Jody London, Joe Neugebauer, District 2 | Danville (Jill Ray), Liz Richie

Present: District I Supervisor John Gioia and District III Supervisor Diane Burgis

2. PUBLIC COMMENT

No Public Comment.

3. RECEIVE and APPROVE the Record of Action for the June 13, 2024, Committee Meeting with any necessary provisions.

Attachments: Meeting Minutes FINAL

The Committee unanimously ACCEPTED the June 13, 2024 CCRS Meeting Record.

No Public Comment.

4. RECEIVE presentation on the Regional Shoreline Adaptation Plan and Local Elected Task Force

Attachments: CCRS Committee-BCDC PRESENTATION

The Committee expressed strong support for the shoreline adaptation efforts and emphasized the importance of ensuring all cities within Contra Costa County are informed and actively engaged in the process. They commended staff for their leadership in coordinating regional efforts and stressed the need for continued collaboration between local governments.

The Committee ACCEPTED the report and RECOMMEND increased outreach to elected officials to ensure broad awareness and participation; enhanced coordination among cities and counties to align adaptation strategies; equity considerations in funding and implementation to support vulnerable communities.

BCDC agreed to explore additional engagement strategies for local officials and stakeholders.

No Public Comment.

5. RECEIVE the presentation on coordinating planning efforts with the shoreline cities to collectively prepare the Contra Costa Resilient Shoreline Plan and provide direction to staff as appropriate.

Attachments: CCRS & Shoreline Cities PRESENTATION

The Committee ACCEPTED the report and DIRECTED staff to continue broadening stakeholder engagement for the Resilient Shoreline planning process, ensuring that a diverse range of stakeholders, including private property owners, special districts, water and wastewater districts, and transportation agencies, are actively involved. Staff is instructed to prioritize collaboration among local agencies and organizations to avoid competing for grant funding and to pool resources where appropriate. Additionally, staff is encouraged to use the North Richmond living levee project as a model for community visioning and engagement, incorporating similar practices into the broader shoreline resilience efforts.

No Public Comment.

6. RECEIVE the report on Staff Activities supporting the Contra Costa Resilient Shoreline Ad Hoc Committee.

Attachments: CCRS Activities Staff Report

The Committee ACCEPTED the report of the ongoing efforts of the sea level rise planning team and DIRECTED staff to continue public engagement activities, including site visits and community outreach, to further the development of the sea level rise planning process. Staff is to remain proactive in communicating with the community and adapting to funding limitations while continuing to seek available resources for future planning.

No Public Comment.

7. ADJOURN until the next Contra Costa Resilient Shoreline Committee meeting to be held on October 16, 2024, at 10:00am.

Chair Gioia ADJOURNED the meeting at 2:08pm.

GENERAL INFORMATION

HOW TO PROVIDE PUBLIC COMMENT

FOR ADDITIONAL INFORMATION, PLEASE CONTACT:

File #: 25-511 **Agenda Date:** 2/18/2025 **Agenda #:** 4.

CONTRA COSTA RESILIENT SHORELINE COMMITTEE
Meeting Date: February 18, 2025
Subject: Presentation on Shallow Groundwater Mapping and Baylands Resilience in Contra Costa County
Submitted For: CONTRA COSTA RESILIENT SHORELINE COMMITTEE
Department: DEPARTMENT OF CONSERVATION & DEVELOPMENT
Presenter: Ellen Plane | Senior Scientist || San Francisco Estuary Institute
Contact: Ellen Plane (520) 405-5583

Referral History:

The San Francisco Estuary Institute's work on shallow groundwater mapping and Baylands resilience has not been discussed by the Contra Costa Resilient Shoreline Committee.

Referral Update:

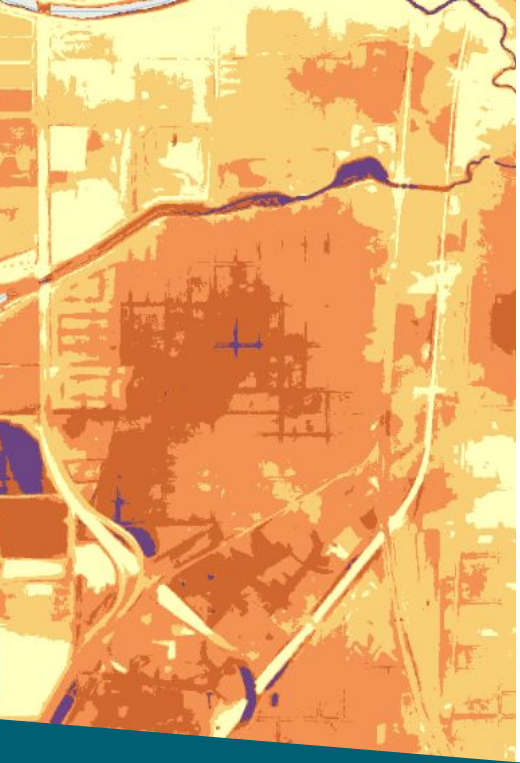
The San Francisco Estuary Institute has developed several Bay Area adaptation and resilience tools. Its recent efforts include expanding its initial shallow groundwater mapping effort to include Contra Costa County and building upon its Adaptation Atlas and Operational Landscape Unit framework to develop the Baylands Resilience Framework.

Recommendation(s)/Next Step(s):

RECEIVE presentation on the San Francisco Estuary Institute's shallow groundwater mapping and Baylands resilience efforts in Contra Costa County and provide direction to staff as appropriate.

Fiscal Impact (if any):

None.



Shallow Groundwater Mapping and Baylands Resilience in Contra Costa County

Contra Costa Resilient Shoreline Committee

SFEI
SAN FRANCISCO ESTUARY INSTITUTE

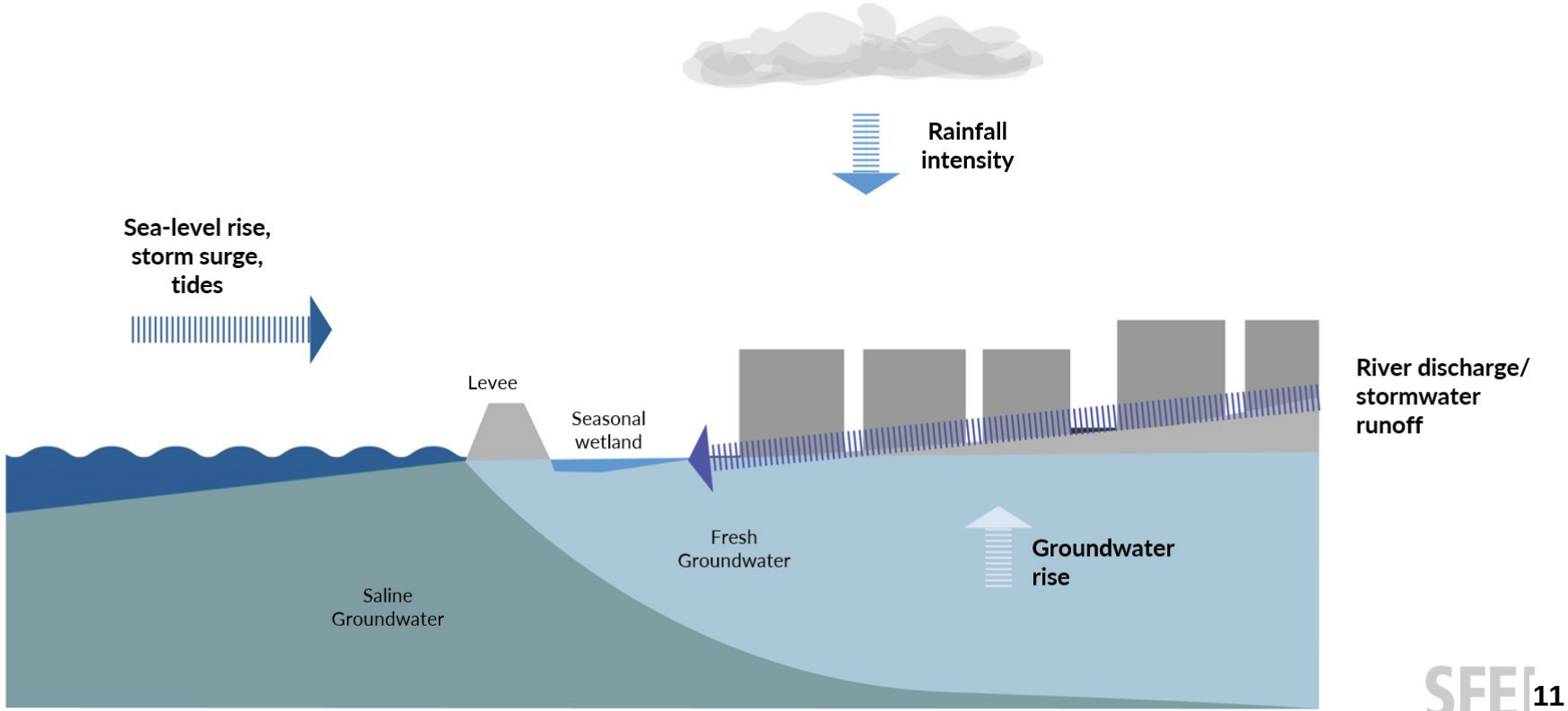
Ellen Plane, Senior Scientist

February 18, 2025

Agenda

1. Groundwater rise context
2. New shallow groundwater mapping for Contra Costa County
3. Brief introduction to SFEI's adaptation and resilience tools

Sources of flooding



What is groundwater rise?

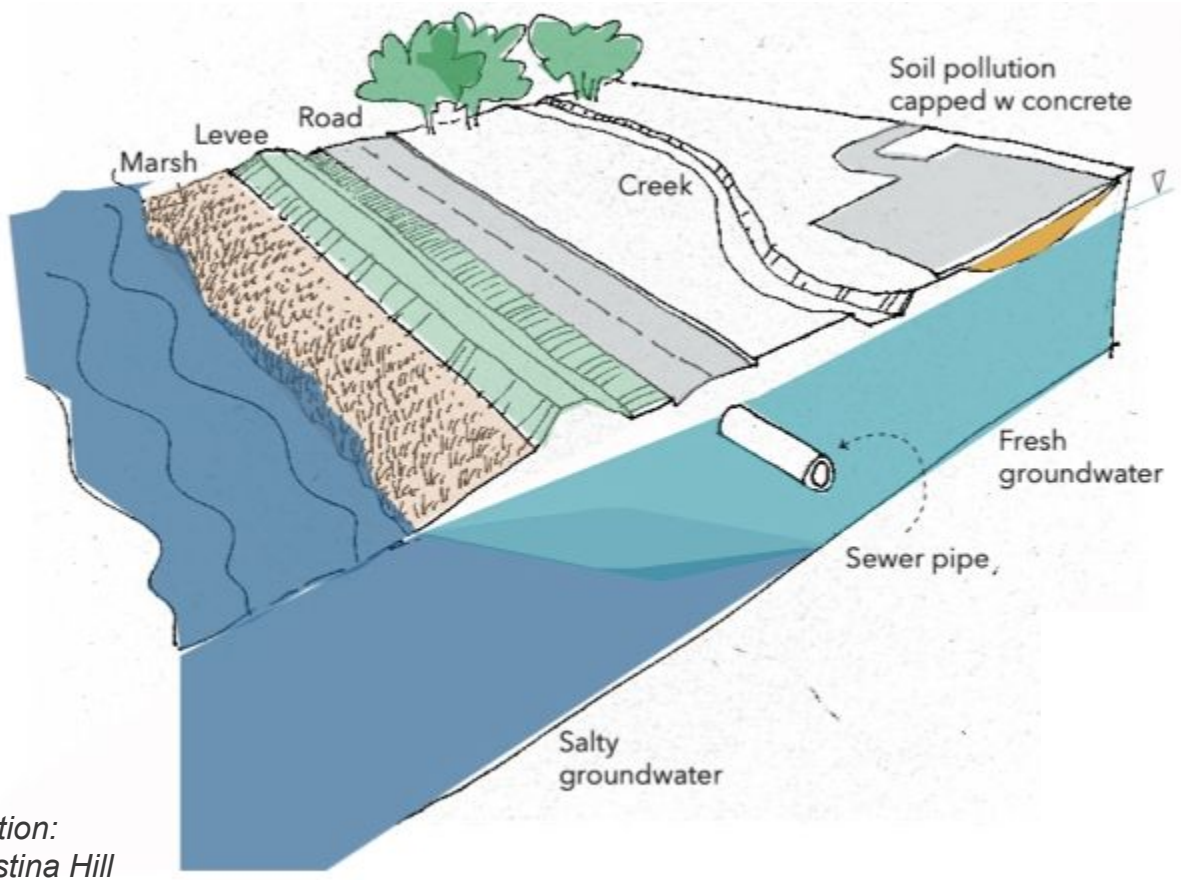


Illustration:
Dr. Kristina Hill

What is groundwater rise?

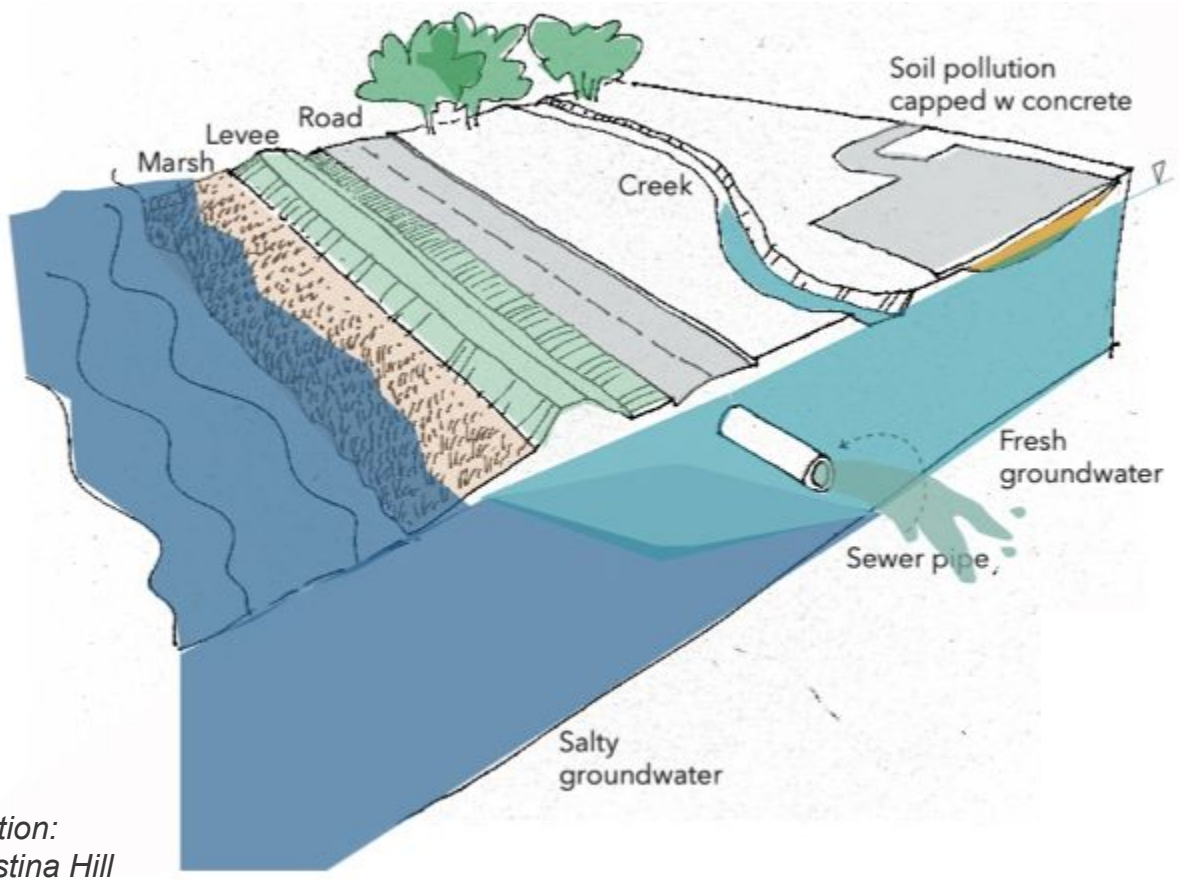


Illustration:
Dr. Kristina Hill

What is groundwater rise?

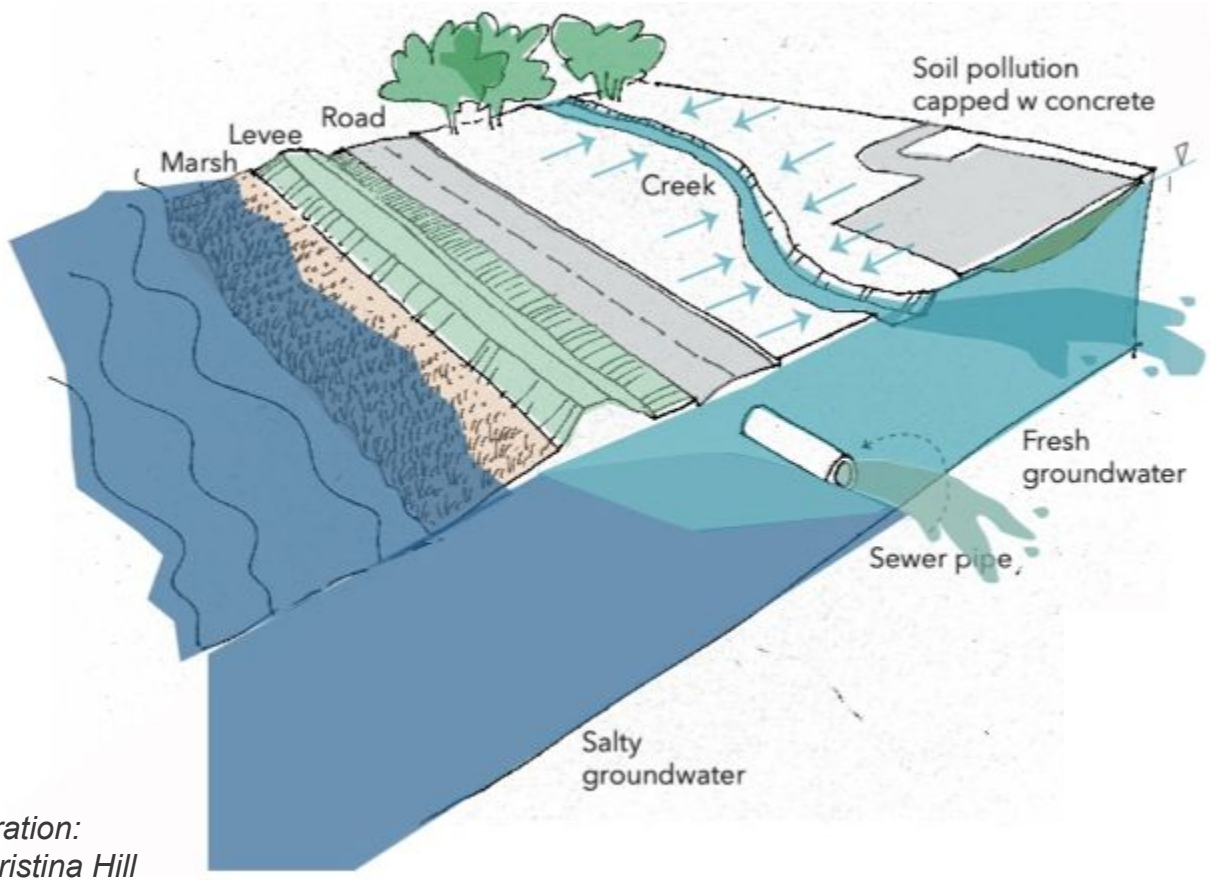


Illustration:
Dr. Kristina Hill

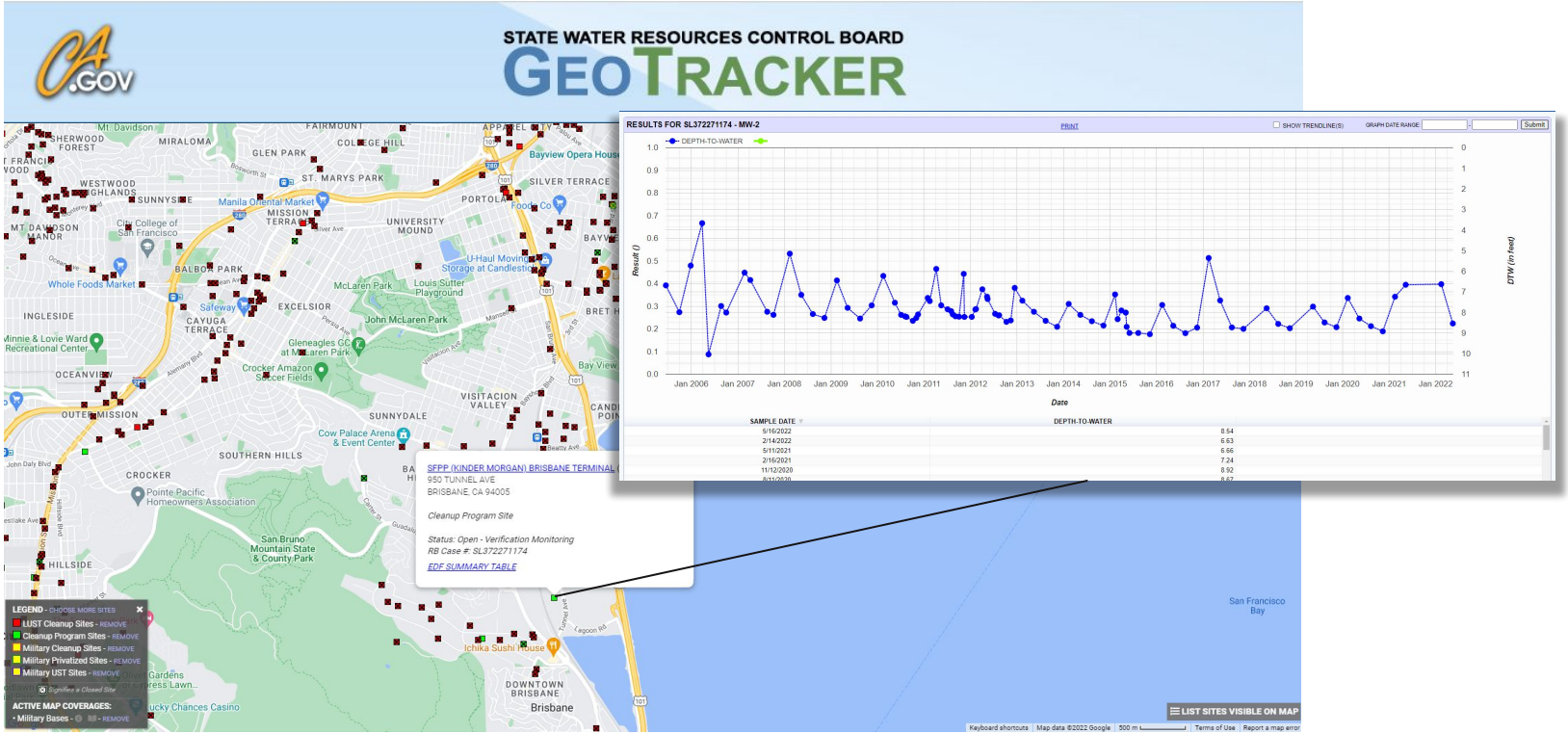
Background on present effort

- Previous study mapped shallow groundwater response to sea level rise for 4 Bay Area counties (Pathways & SFEI 2022)
- Report, StoryMaps (English & Spanish), publicly available GIS data
- Now adding Contra Costa County with funding from the Regional Water Quality Control Board

pathways CLIMATE INSTITUTE

SFEI 15

Primary data source: monitoring wells



pathways CLIMATE INSTITUTE

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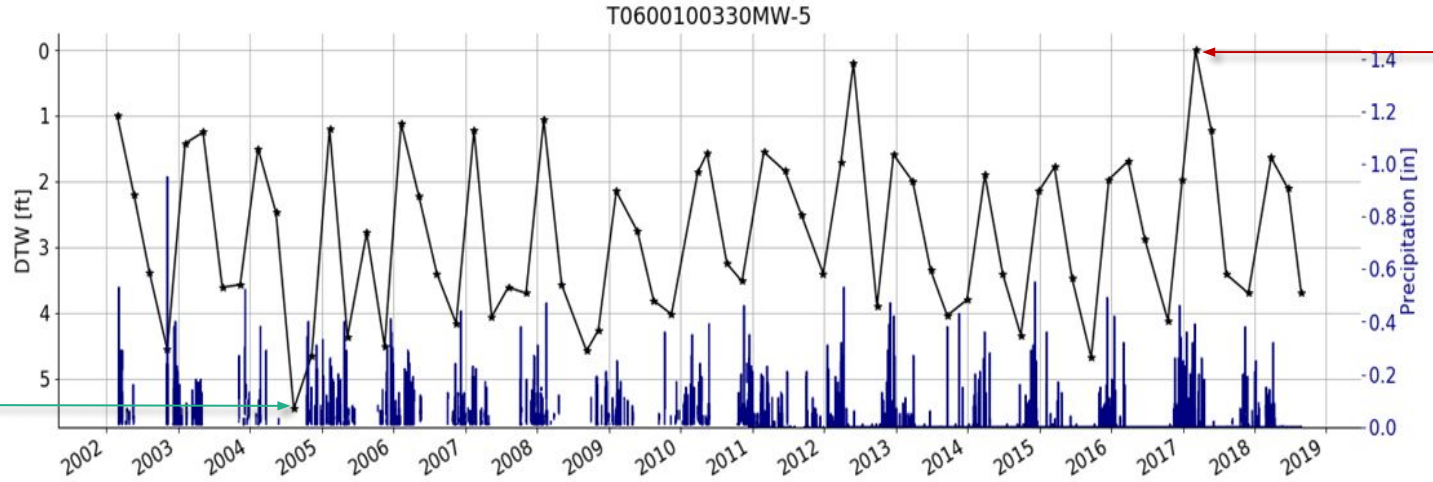
Groundwater response to precipitation



Wet Winter Conditions

Dry Summer Conditions

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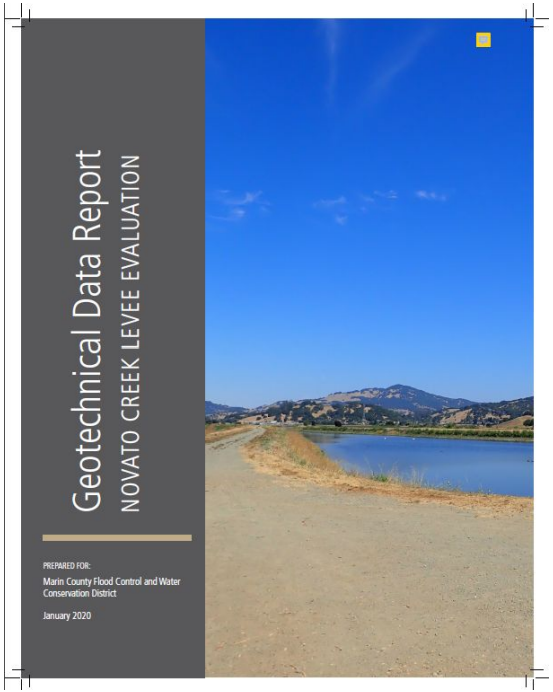
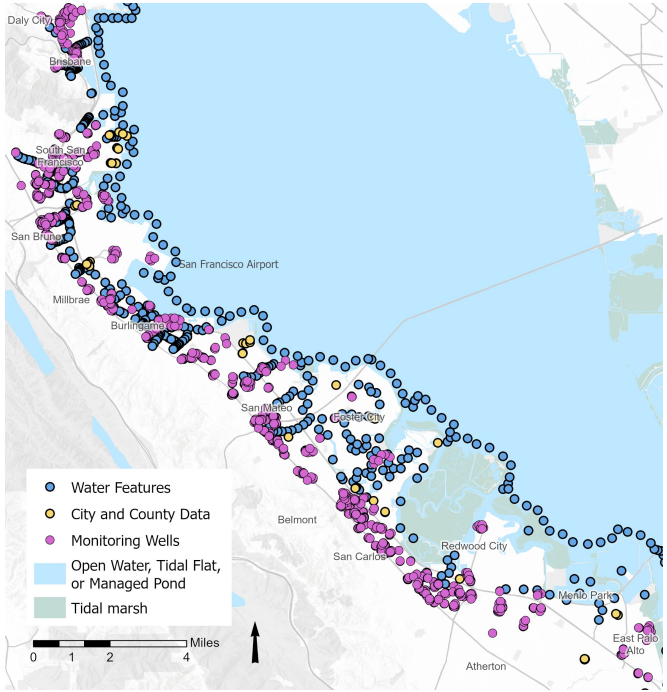
SFEI

Additional data sources



Boring logs from geotechnical reports and well completion reports

Tidal datums, lagoon and stream water elevations



Data compilation (San Mateo County)

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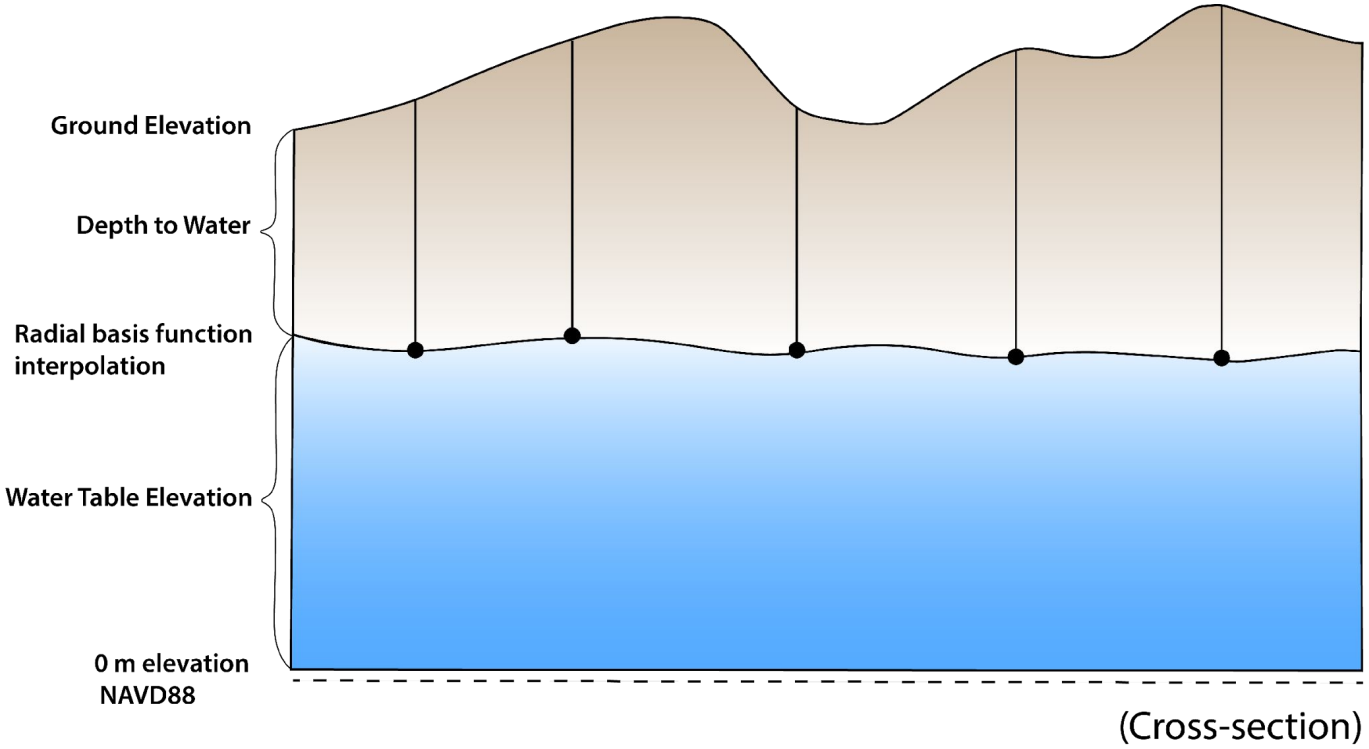
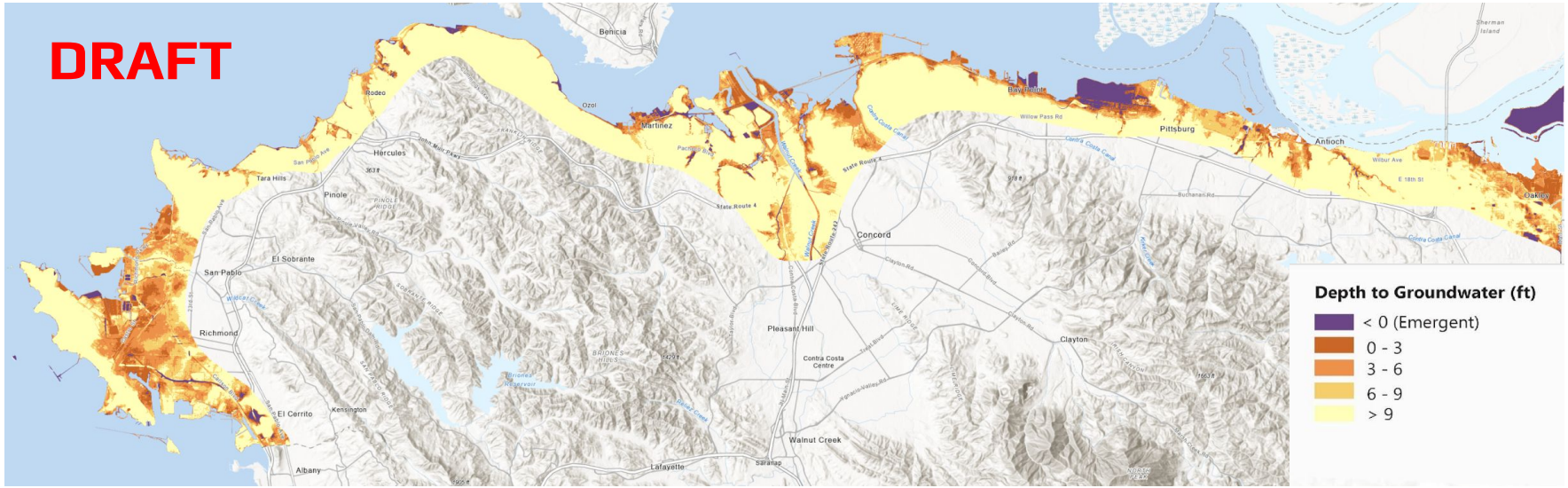
Interpolation



Contra Costa County: Depth to Water (DTW)

Results from interpolations for existing conditions (wet winters/maximum measured water table)



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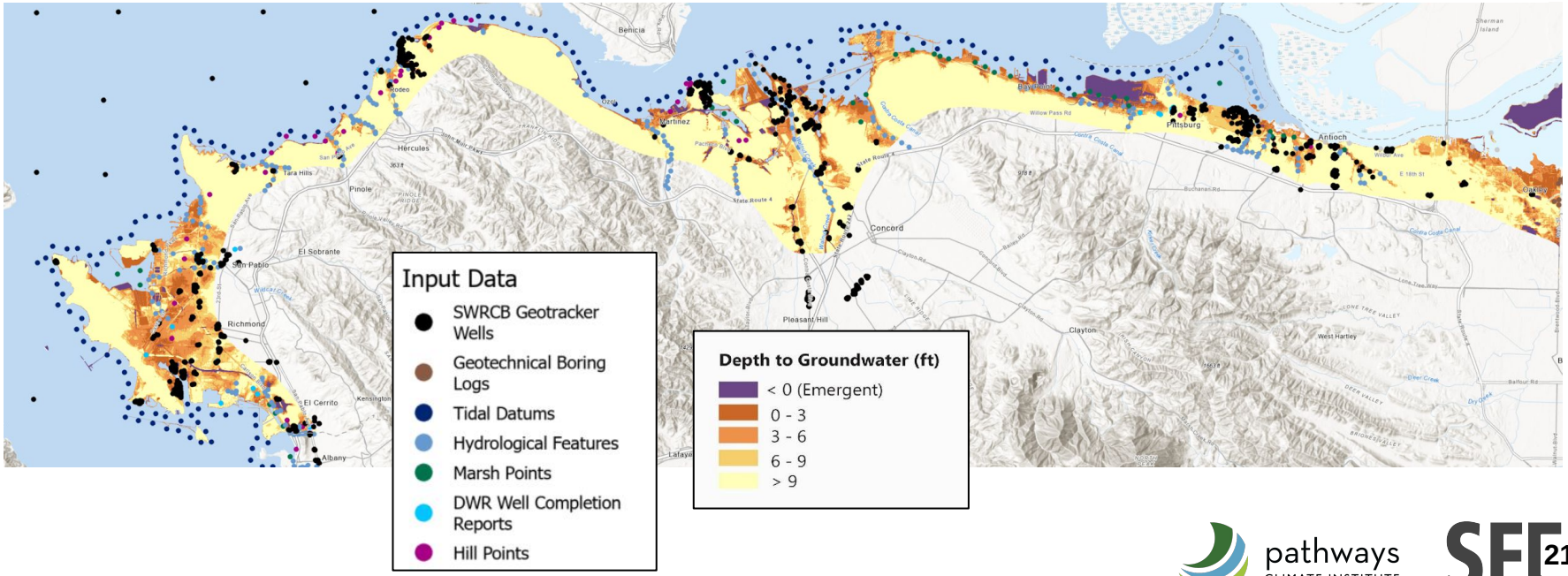
SFEI 20

Contra Costa County: Depth to Water (DTW)

Existing conditions interpolation and data sources



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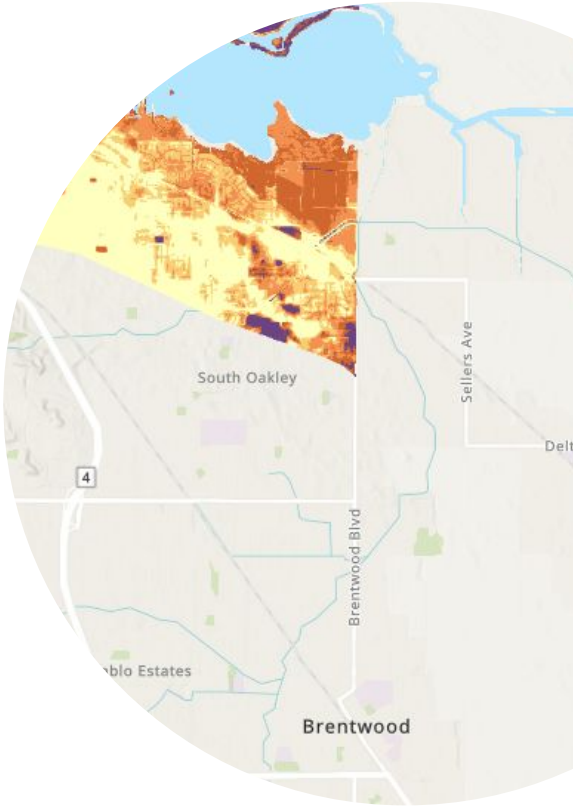
Boundary of analysis

- Eastern extent of analysis is Oakley/Brentwood Blvd
- East of here, groundwater dynamics are less influenced by the Bay and more influenced by Delta inflow and groundwater pumping
- A special study would be needed to determine the influence of sea level rise on groundwater in this area



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Shallow groundwater datasets for Contra Costa County

USGS 2020

- MODFLOW regional dataset
- Long term annual average groundwater surface
- 10-meter resolution, less detailed

Pathways & SFEI 2025

- Data driven, locally refined
- Highest annual groundwater surface (wet winter)
- 1-meter resolution, greater detail

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Contra Costa County: USGS Mapping

- USGS mapping, modeled 2020
- Different methodology
- Only up to Pittsburg

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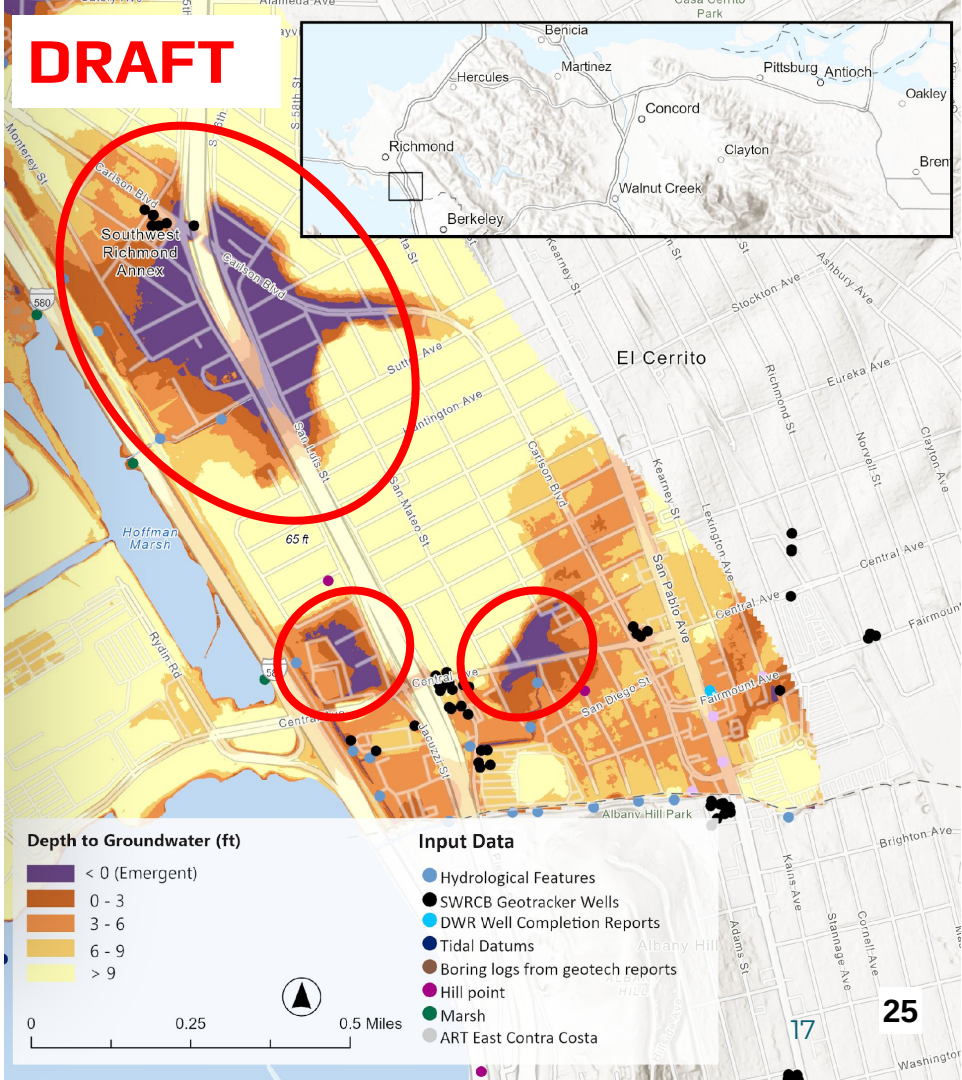
Example ground truthing location explored with County and City staff

- **Location Top:** Residential / industrial area on either side of the I-80 freeway
- **Location Bottom:** Residential / mixed use areas
- Does this area see flooding today? Is there pumping or other mitigation measures in place?
- Has emergent groundwater been observed in this area?
- Are there any projects or active construction sites in this area?



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What is emergent groundwater?


Getty Images


Kristina Hill

pathways CLIMATE INSTITUTE

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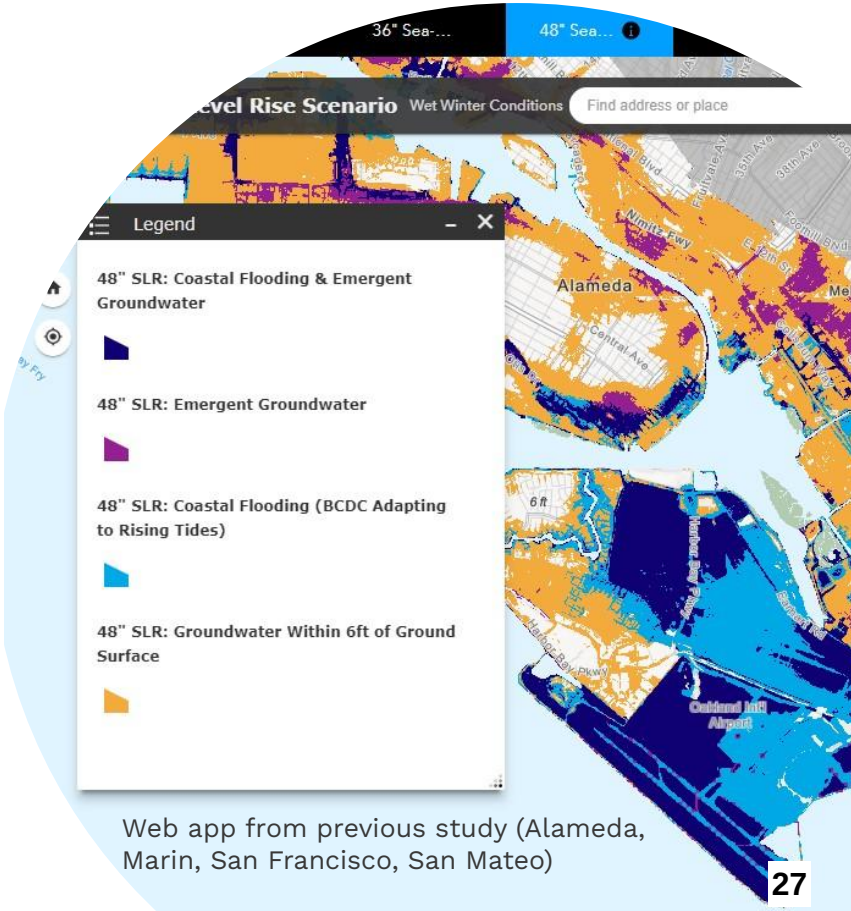
Next steps

- Revise mapping based on feedback received from County and City staff to better reflect existing conditions
- Adjust the existing conditions baseline for various sea-level rise scenarios to show projected future groundwater conditions.



Web app from previous study (Alameda, Marin, San Francisco, San Mateo)

SFEI's baylands and shoreline resilience work

Developing nature-based adaptation strategies that can improve shoreline resilience and provide multiple benefits like wildlife habitat, flood reduction, and recreational amenities

Shira Bezal

Adaptation Atlas:

Suitability: What areas are suitable for nature-based solutions?

Baylands Resilience Framework:

Effectiveness: Where are nature-based solutions needed and why?

Baylands resilience metrics for the Bay Point OLU

The shoreline of the Bay Point OLU has a relatively continuous stretch of connected tidal marshes (about 6 miles), which generally score highly on resilience metrics such as migration space connectivity, patch connectivity, and elevation relative to the tides (0-17% below MHW elevation). Bayward of road and railroads, there are almost 900 acres of migration space, with half of this area connected to the baylands today. If protected from development, this presents a significant opportunity for marsh migration in the future. However, connections to uplands landward of this band of migration space are constrained by transportation infrastructure. The OLU's watershed is highly modified, with creeks draining through straightened flood control channels, bypassing the baylands and reducing connectivity between uplands and marshes.

Many opportunities exist to enhance baylands resilience along the Bay Point shoreline. Restoring diked baylands would link more marshes to undeveloped migration space. The close proximity to a deepwater channel for access makes the beneficial reuse of dredged sediment for restoration purposes particularly feasible in this area. Additionally, reconnecting creeks to flow into the backs of marshes, rather than bypassing them in leveed channels, could enhance natural freshwater and sediment delivery to the baylands. The existing set of resilience metrics indicates that these marshes are performing well, but ground surveys could help identify resilience challenges and identify targeted enhancement projects to address them.

How extensive are the baylands in this OLU?

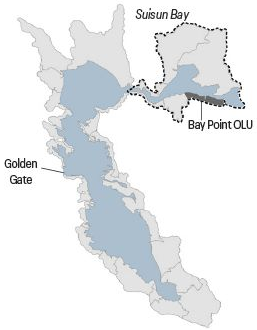
A relatively high proportion of Suisun Bay's tidal marsh is found in the Bay Point OLU, considering its small size compared to the Montezuma and Suisun Slough OLUs.

704 acres of diked baylands | 1,382 acres of tidal marsh

SUISUN BAY SIGNIFICANCE (AREA)

1% of diked baylands in Suisun Bay are located in this OLU

10% of tidal marsh in Suisun Bay is located in this OLU



LEGEND (for map on facing page)

Boundaries
- Operational Landscape Unit

Analysis units
- Undeveloped diked bayland unit
- Tidal marsh unit

Landscape features
- Creek

Tidal baylands (2020)
- Tidal marsh
- Muted tidal marsh
- Intertidal channel
- Tidal flat
- Shallow subtidal
- Deep subtidal

Undeveloped diked baylands (2020)
- Managed/open marsh
- Other open water
- Agriculture/other non-aquatic diked bayland

Upland connection opportunities
- Marsh migration elevation (connected to Bay)
- Marsh migration elevation (disconnected from Bay)
- Upper boundary transition zone

0.5 mile
0.5 km
N

Six ideas to increase baylands resilience in the Bay Point OLU

The resilience challenges and opportunities identified for this OLU are based on the Baylands Resilience Framework metrics. Click the links in each box (below) to explore more opportunities in the metrics web map.

PATCH CONNECTIVITY

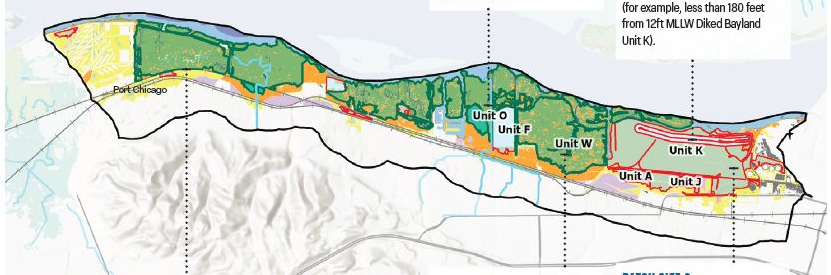
Tidal marshes and diked baylands along the Bay Point shoreline rank highly for habitat connectivity. Protecting and maintaining these patches as habitat would support wildlife population resilience.

TIDAL CONNECTIVITY

Tidal connections could be improved for some muted marshes or diked baylands, such as the muted marsh Unit O and the diked bayland Unit F. Restoring full tidal action to muted tidal areas can improve tidal flushing, increase sediment delivery, and reduce hypersalinity.

SEDIMENT PLACEMENT

The diked baylands Units A, K, and J sit 4 feet below restoration elevation (5 feet below marsh elevation). Direct sediment placement prior to restoration may be possible here, as this entire OLU has close access to deep water that allows a scow to approach and offload sediment closer to shore (for example, less than 180 feet from 12ft MLLW Diked Bayland Unit K).



TRANSITION ZONE CONNECTIVITY

Railroads interrupt connectivity between marshes and uplands, such as at Port Chicago. Transition zone connectivity could be improved by raising or relocating railroads, or by enhancing connectivity underneath them (such as by enlarging culverts).

COMPLETE MARSHES

This OLU has 8 marsh units classified as "complete," i.e. they have connectivity to migration space and upland transition zone. Protecting and enhancing migration space at these marshes (e.g., Marsh Unit W) could help these marshes adapt to sea level rise. Enhancement actions could include planting native vegetation and removing invasive species.

PATCH SIZE & COMPACTNESS

Overall, this OLU has two large tidal marsh patches. The western patch is 490 ac and the eastern patch is 890 acres. Connecting these two areas would increase patch size and compactness. Restoring diked bayland Unit F or the group of diked baylands Units A, K, and J would also increase patch size and compactness.

*** Disclaimer: This is not an adaptation plan.** These are ideas for increasing baylands resilience based on our interpretation of the metrics we have calculated to date. The metrics are based on remotely sensed data from 2020 or earlier. This is a regional scale analysis and there is varying quality of the underlying data.

SFEI 30

Baylands resilience metrics for the Walnut OLU

The Walnut OLU contains the Suisun Bay subembayment's largest and most compact tidal marsh patch, 2,280 acres at West Navy Marsh (Point Edith Wildlife Area), as well as another substantial marsh patch of 580 acres at Peyton Slough and along Walnut Creek. However, some marshes here are low-lying, with elevations skewed toward the lower end of the tidal frame (60-75% below MHW for the lowest-elevation marshes), and many are not fully tidally connected. This reduced tidal connectivity will hinder marsh resilience by limiting tidal flushing, sediment delivery, and the ability of marshes to migrate upland with sea level rise.

Supporting natural processes and restoring diked baylands to create more marsh could significantly improve baylands resilience in this OLU. Roads and railroads interrupt connectivity between marshes in complexes both east and west of Walnut Creek. Raising roads and railroads or improving connectivity beneath them would enhance drainage and habitat connectivity. There are over 600 acres of connected migration space in the OLU, but this space needs to be better connected to the tides to support marsh migration. These actions would help preserve the large and valuable West Navy Marsh habitat patch in the context of rising sea levels. Additionally, continued restoration (150+ acres of potential restoration) along lower Walnut Creek to expand the floodplain offers a chance to connect a creek with high sediment supply to baylands and reduce compound flooding in the Walnut Creek watershed (Dusterhoff et al., 2016).

How extensive are the baylands in this OLU?

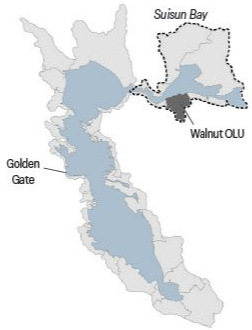
About a fifth of the tidal marsh in Suisun Bay is found in the Walnut OLU. There are many more acres of tidal marsh than diked bayland here.

676 acres of diked baylands | 2,925 acres of tidal marsh

SUISUN BAY SIGNIFICANCE (AREA)

1% of diked baylands in Suisun Bay are located in this OLU

21% of tidal marsh in Suisun Bay is located in this OLU



LEGEND (for map on facing page)

Boundaries
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Analysis units
- Undeveloped diked bayland unit
- Tidal marsh unit

Landscape features
- Creek

Tidal baylands (2020)
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Undeveloped diked baylands (2020)
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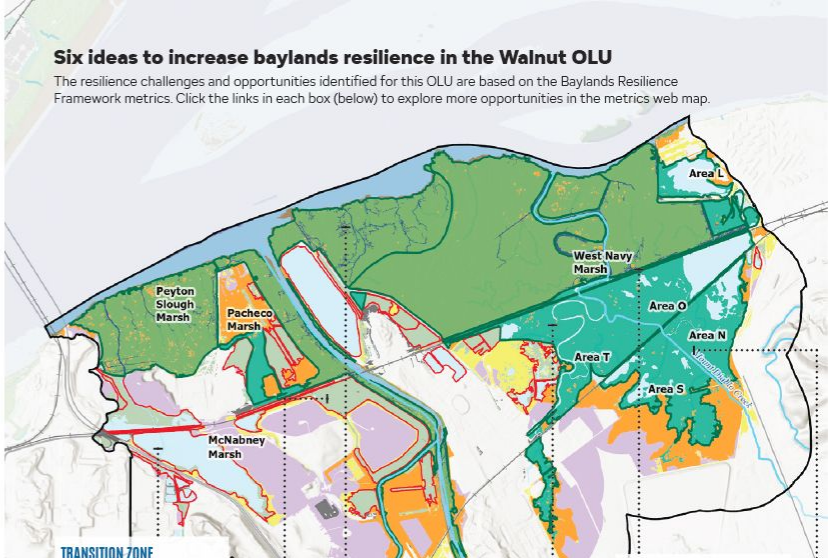
- Other open water
- Agriculture/other non-aquatic diked bayland

Upland connection opportunities
- Marsh migration elevation (connected to Bay)
- Marsh migration elevation (disconnected from Bay)
- Upper boundary transition zone

0.5 mile
0.5 km
N

Six ideas to increase baylands resilience in the Walnut OLU

The resilience challenges and opportunities identified for this OLU are based on the Baylands Resilience Framework metrics. Click the links in each box (below) to explore more opportunities in the metrics web map.



TRANSITION ZONE CONNECTIVITY

McNabney Marsh and West Navy Marsh (Area S) both have good connectivity to transition zone and migration space. These upland areas could be protected from development and enhanced (e.g., through vegetation management) to make the marshes more resilient to sea level rise.

FLOOD ATTENUATION

Tidal marshes in this OLU are protecting infrastructure, such as the Union Pacific railroad, from wave erosion. Preserving and adaptively managing these marshes will allow them to continue providing this ecosystem service.

PATCH SIZE & COMPACTNESS

Continuing to restore the lower Walnut Creek baylands would increase the size and compactness of the habitat patch west of Walnut Creek. Restoration could include continued floodplain expansion at the mouth of Walnut Creek (for instance at Diked Bayland Unit 11), following the model of the recent restoration at Pacheco Marsh *(completed since 2020)*.

SEDIMENT PLACEMENT

There may be an opportunity to use dredged sediment from Walnut Creek for diked baylands restoration in the future. Point Edith Marshes have good access to deep water to facilitate sediment offloading; for example, West Navy Marsh is less than 150 feet from 12-foot deep water at MLLW.

TIDAL CONNECTIVITY

West Navy Marsh inland of Waterfront Road and McNabney Marsh are both muted marshes with limited connectivity to the Bay. Drainage and tidal connectivity could be enhanced for these marshes by improving flow through water control structures. Other marshes where tidal connectivity could be improved include those south of Waterfront Road and those next to Port Chicago (West Navy Area L and Walnut Unit 2).

ELEVATION & VEGETATION COVER

West Navy Marsh has mixed elevation. Closer to Carquinez Strait, marshes are close to MHHW. Inland of Waterfront Road marshes are very low lying (several units have more than more than 60% of their area below MHW). Improving tidal connectivity as well as connections to Mt Diablo Creek could help improve natural sediment supply.

*** Disclaimer: This is not an adaptation plan.** These are ideas for increasing baylands resilience based on our interpretation of the metrics we have calculated to date. The metrics are based on remotely sensed data from 2020 or earlier. This is a regional scale analysis and there is varying quality of the underlying data.

Baylands Resilience Metrics

- Units
- Wildlife Support Metrics
  - A1.1 Transition zone connectivity
  - A1.2 Mudflat connectivity
  - A2.1 Patch connectivity
  - A3.1 Patch size and compactness
  - A4.1 Marsh elevation
    - Percent of marsh area below Mean High Water (lower percent associated with marsh resilience)
    - Elevation skewness (negative values associated with marsh resilience)
  - A4.2 Marsh pannes and UVVR
  - A5.1 Redundancy of complete marshes
  - A6.1 Tidal connectivity
- Flood Attenuation Metrics

Companion Report

Baylands Resilience Framework

Help

Units

Analysis Units

Diked Bayland Unit

Marsh Unit

Operational Landscape Units (OLUs)

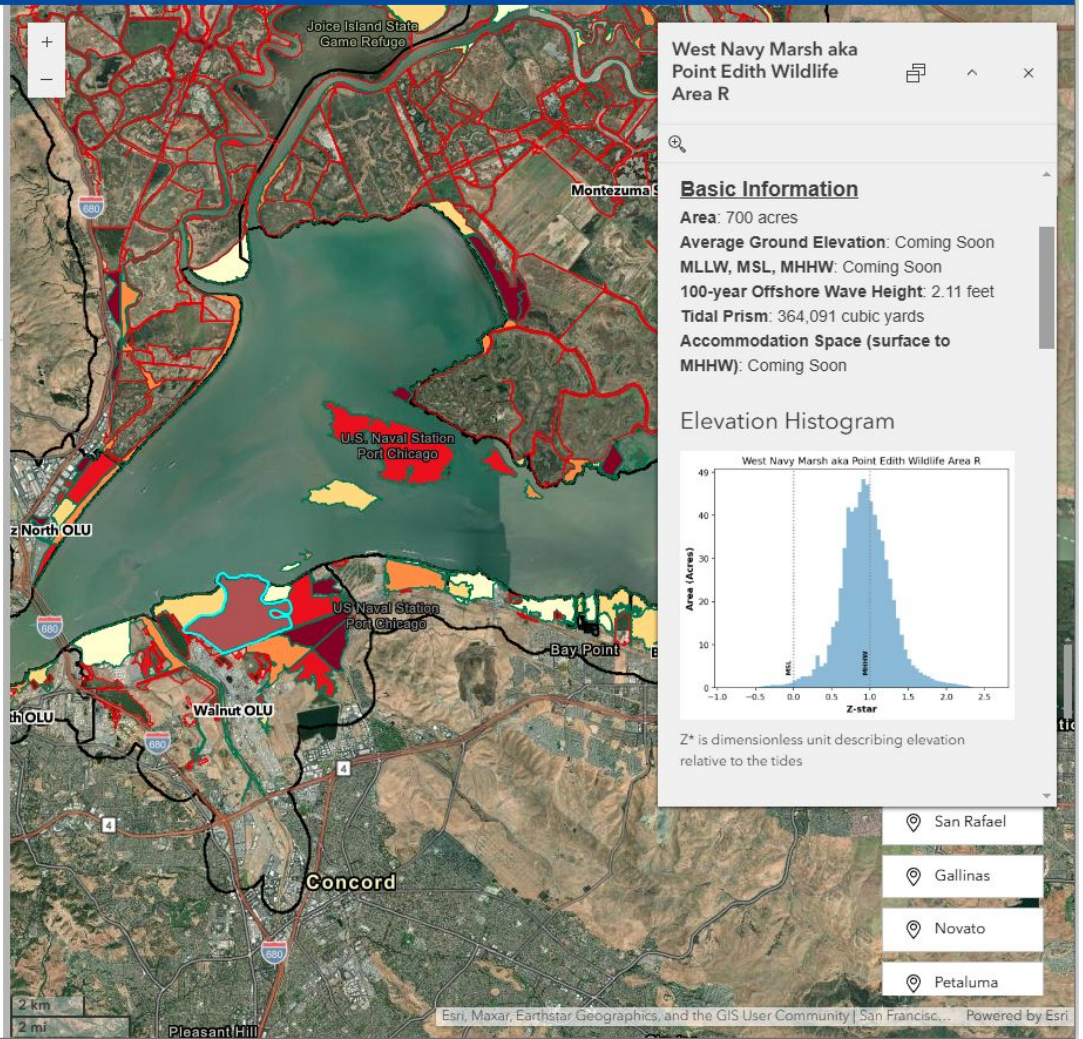
Wildlife Support Metrics

A4.1 Marsh elevation

Percent of marsh area below Mean High Water (lower percent associated with marsh resilience)

Percent below MHW elevation

- 59 - 100
- 27 - 58
- 14 - 26
- 7 - 13
- 0 - 6



West Navy Marsh aka Point Edith Wildlife Area R

Basic Information

Area: 700 acres
Average Ground Elevation: Coming Soon
MLLW, MSL, MHHW: Coming Soon
100-year Offshore Wave Height: 2.11 feet
Tidal Prism: 364,091 cubic yards
Accommodation Space (surface to MHHW): Coming Soon

Elevation Histogram

Z* is dimensionless unit describing elevation relative to the tides

- San Rafael
- Gallinas
- Novato
- Petaluma

Upcoming work: Baylands Decision Support System

SFEI

SAN FRANCISCO ESTUARY INSTITUTE

- **Research institute** with over 80 staff working in the Bay Area and California
- We **deliver visionary science** to empower people to revitalize nature

Thank you

Ellen Plane
San Francisco Estuary Institute
ellenp@sfei.org

File #: 25-510 **Agenda Date:** 2/18/2025 **Agenda #:** 5.

CONTRA COSTA RESILIENT SHORELINE COMMITTEE
Meeting Date: February 18, 2025
Subject: Presentation on the Contra Costa Resilient Shoreline Coalition
Submitted For: CONTRA COSTA RESILIENT SHORELINE COMMITTEE
Department: DEPARTMENT OF CONSERVATION & DEVELOPMENT
Presenter: Ryan Hernandez | Principal Planner || DEPARTMENT OF CONSERVATION & DEVELOPMENT
Contact: Ryan Hernandez (925) 655-2919

Referral History:

Contra Costa County is required to develop a subregional shoreline resilience plan in compliance with Senate Bill 272.

The Contra Costa Resilient Shoreline Committee received a presentation about coordinating sea level rise related efforts with Contra Costa shoreline cities at its September 9, 2024 meeting.

Referral Update:

Describing the County's approach to coordinating with a wider group of shoreline stakeholders to strengthen the Contra Costa Resilient Shoreline Plan and collective shoreline resilience.

Recommendation(s)/Next Step(s):

RECEIVE presentation on the Contra Costa Resilient Shoreline Coalition and provide direction to staff as appropriate.

Fiscal Impact (if any):

The costs in staff time and materials for the Department of Conservation and Development's work activities associated with the Contra Costa Resilient Shoreline Committee are funded by the Measure X - Climate Equity and Resilience Investment allocation administered by the department. Even with the County's recent awarded grant funds from the California Ocean Protection Council, additional funding will be necessary to develop a comprehensive sea level rise adaptation plan. The Department continues to pursue opportunities for grant and other funding mechanisms to support this effort.

DCD Sea Level Rise Team

Contra Costa Resilient Shoreline Coalition

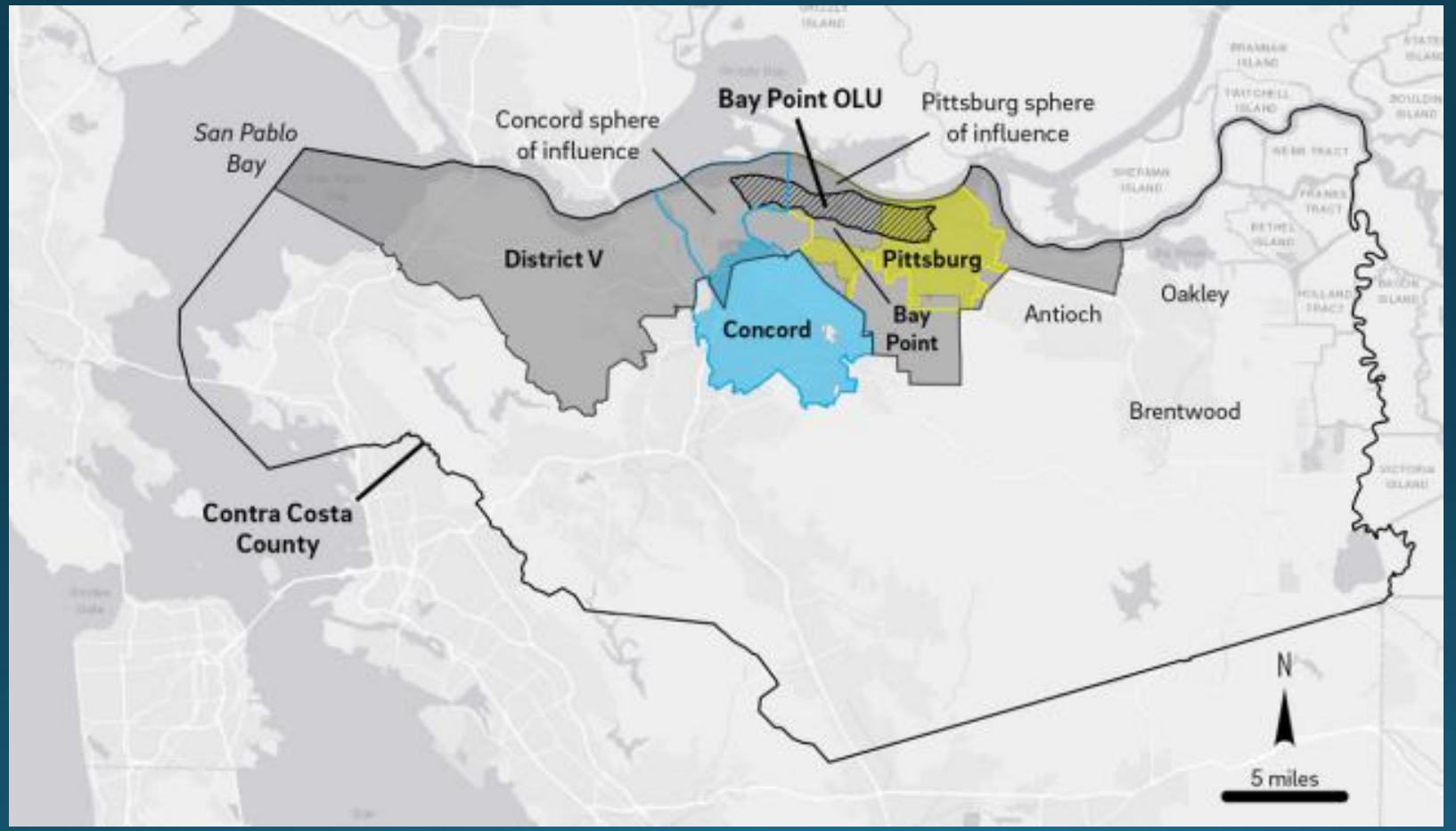
February 18, 2025

Who might participate in the Resilient Shoreline Coalition?

- Regional Agencies
- Shoreline Cities
- Special Districts
- Private Landowners
- Community Based Organizations

Creating the Resilient Shoreline Coalition

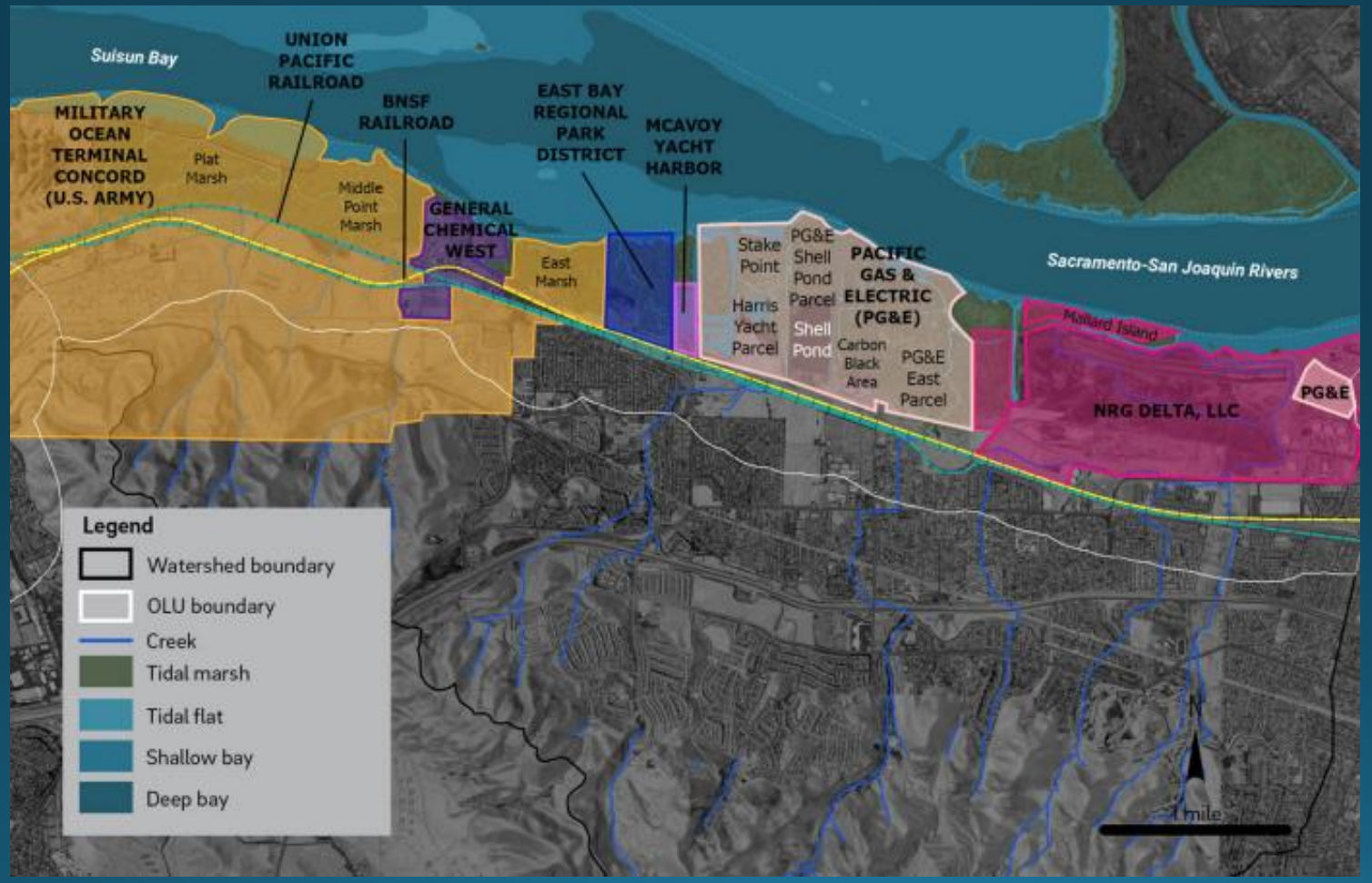
Step 1: Define geographic focus areas



Map of Bay Point Operational Landscape Unit (OLU) contextualized with neighboring jurisdictions and spheres of influence.

Creating the Resilient Shoreline Coalition

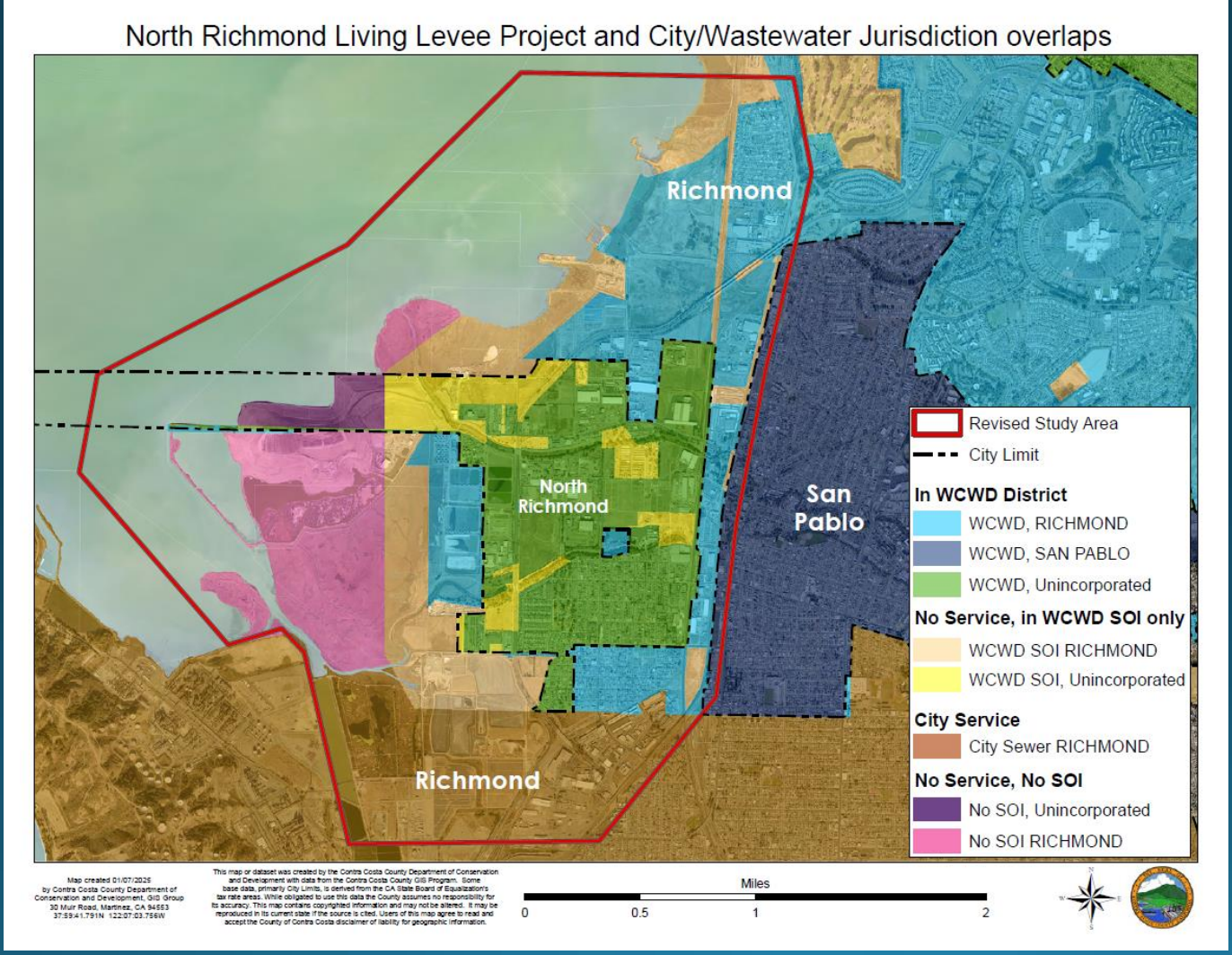
Step 2: Map ownership of parcels and assets to identify specific stakeholders to engage



Portion of Bay Point Operational Landscape Unit (OLU) with parcels labeled by owner

Creating the Resilient Shoreline Coalition

Step 3: Coordinate efforts among stakeholders to advance collective shoreline resilience



What would the Resilient Shoreline Coalition do?

Goal: Coordinate and align efforts to advance Contra Costa shoreline resilience

Involvement Based on Capacity

Level 1

Stay informed via email and meetings as needed/requested.

Level 2

Engage in the development of Contra Costa Resilient Shoreline Plan (meetings, workshops, curriculum development). Provide input on impact of Contra Costa Resilient Shoreline Plan to own organization.

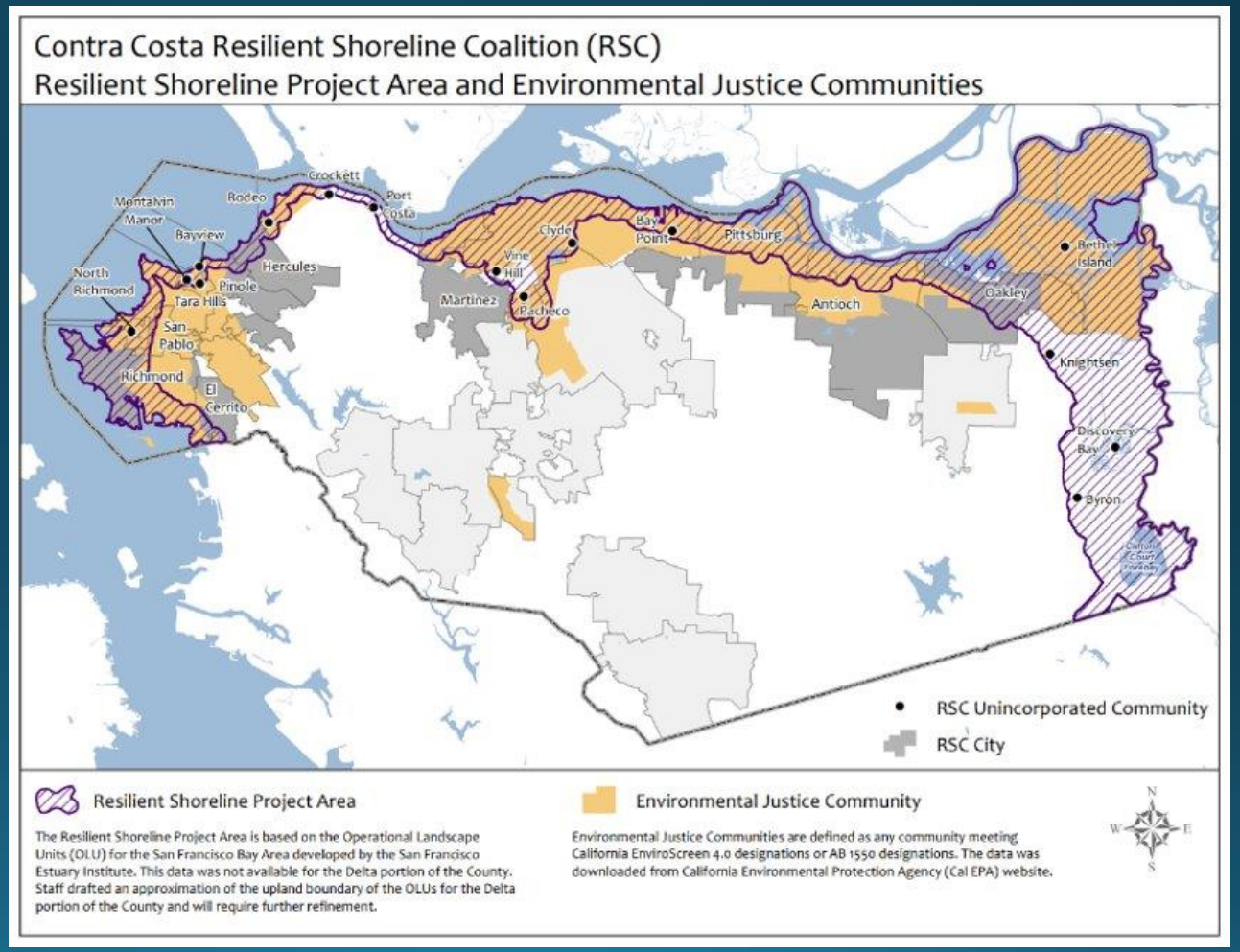
Level 3

Incorporate Contra Costa Resilient Shoreline Plan into organization's own work.

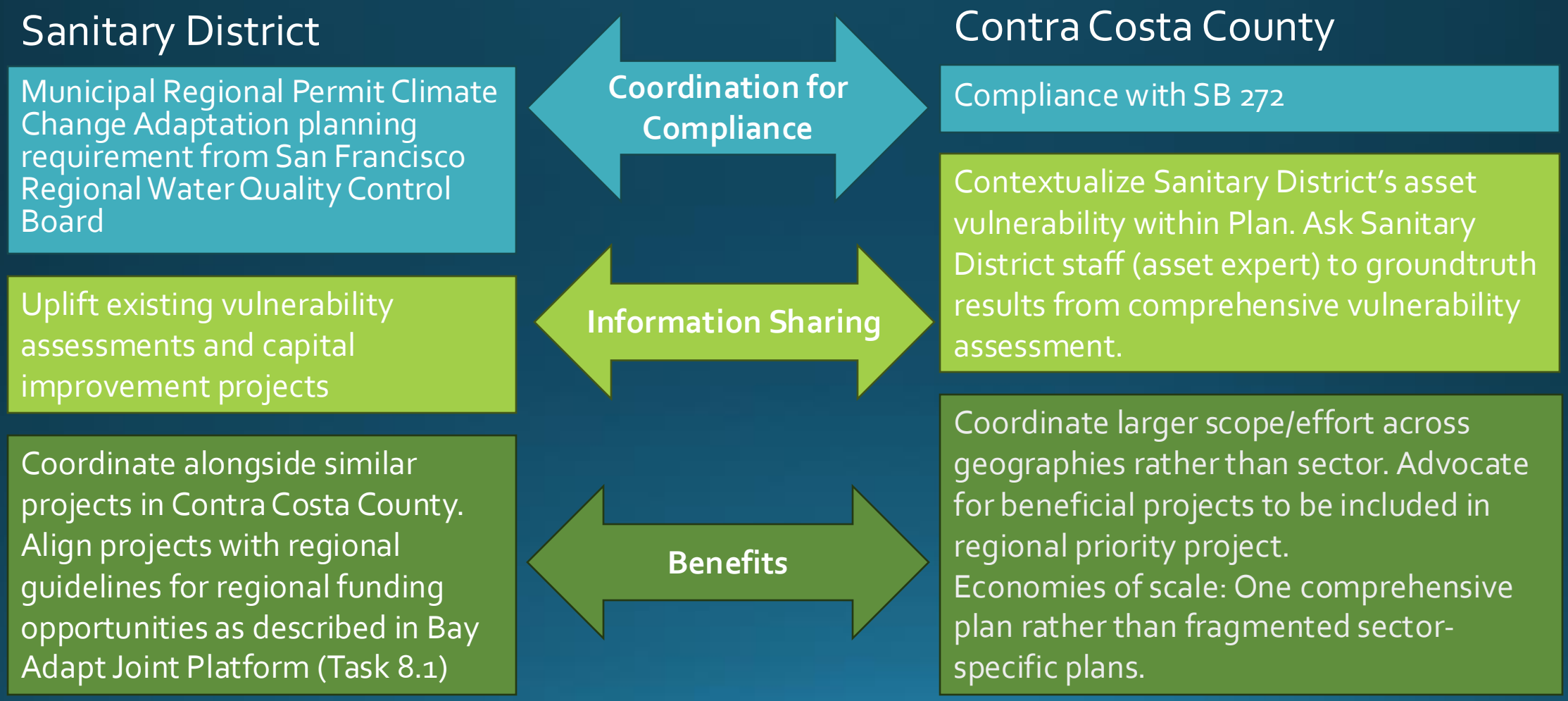
Contra Costa Resilient Shoreline Plan as a Beneficial Tool for Coordination

Good news! Contra Costa County has funding through its Ocean Protection Council SB 1 grant award to start creating the Resilient Shoreline Coalition:

- Create a comprehensive stakeholder inventory for the entire Contra Costa shoreline and
- Undertake a stakeholder capacity exercise to right-size each stakeholder's involvement



Resilient Shoreline Coalition Coordination in Practice - Example



Trail near West County Wastewater District on June 1, 2024

Thank you!

If you have any questions, please email Ryan Hernandez at Ryan.Hernandez@dcd.cccounty.us.

File #: 25-512 **Agenda Date:** 2/18/2025 **Agenda #:** 6.

CONTRA COSTA RESILIENT SHORELINE COMMITTEE
Meeting Date: February 18, 2025
Subject: RECEIVE the report on Staff Activities supporting the Contra Costa Resilient Shoreline Committee
Submitted For: CONTRA COSTA RESILIENT SHORELINE COMMITTEE
Department: DEPARTMENT OF CONSERVATION & DEVELOPMENT
Presenter: Ryan Hernandez | Principal Planner || DEPARTMENT OF CONSERVATION & DEVELOPMENT
Contact: Ryan Hernandez (925) 655-2919

Referral History:
This is a standing item of the Committee.

Referral Update:
See attached Contra Costa Resilient Shoreline Committee Staff Report.

Recommendation(s)/Next Step(s):
ACCEPT the report on Staff Activities supporting the Contra Costa Resilient Shoreline Committee.

Fiscal Impact (if any):
None.

Contra Costa Resilient Shoreline Staff Report for
Contra Costa Resilient Shoreline Committee
February 18, 2025

Key activities since the Resilient Shoreline Committee's meeting on September 9, 2024, are listed below.

Grants

- **Senate Bill 1 Grant Award.** Staff have been working with the California Ocean Protection Council (OPC) to complete requirements to execute the $1,499,285 grant awarded through the Senate Bill 1 Sea Level Rise Adaptation Planning Grant Program (SB 1 Grant Program) for the development of the Contra Costa Resilient Shoreline Plan (Plan). OPC staff have submitted the work plan for final review and execution. Staff expect the grant to be executed in March 2025.
    - Staff have prepared a draft Memorandum of Understanding to facilitate collaboration with shoreline cities during the term of the grant.
    - Staff have begun preparing Request for Qualifications (RFQs) for community engagement and technical subcontractors to assist with the development of the Plan. Staff expect the RFQs to be released in early spring 2025.
- Staff continue to monitor state and federal grant opportunities and prepare to apply for funding to support the Contra Costa Resilient Shoreline Plan. The Plan would create focused adaptation strategies and implementation actions for the communities along Contra Costa County's shoreline.

Contra Costa Shoreline Leadership Academy

- The San Francisco Bay Conservation and Development Commission authorized its Executive Director to enter into an up to $180,000 contract with the Exploratorium to serve as the Academy Management for two Shoreline Leadership Academies at its December 5, 2024, meeting. One of these Shoreline Leadership Academies will take place in Contra Costa County. The program will engage a cohort of residents in impacted communities in a six-month process in which they will be trained by experts in sea level rise, shoreline adaptation, nature-based solutions, shoreline contamination remediation, and other topics through virtual and in-person experiences to be prepared to engage in policy, planning, and projects related to shoreline adaptation. Staff expect the Contra Costa Shoreline Leadership Academy to begin in the second half of 2025.

Contra Costa Resilient Shoreline Coalition

- Staff continue meet with other local and regional public agencies to coordinate sea level rise planning efforts and build the Contra Costa Resilient Shoreline Coalition to support the planning and development of the Contra Costa Resilient Shoreline Plan.
- Staff continue to participate in regional sea level rise planning to ensure the County's adaptation and resilience efforts to develop the Plan are consistent with new guidelines.
    - On February 6, 2025, staff participated in a meeting with the San Francisco Estuary Institute to discuss draft groundwater mapping for Contra Costa County. Pathways Climate Institute presented an overview of the mapping methodology and results, and attendees discussed experiences related to flooding in key areas identified.
    - On December 5, 2024, staff participated in the Bay Area Coastal and Deltaic Wetlands Workshop, giving an update on Contra Costa County's initial work implementing BCDC's Regional Shoreline Adaptation Plan.

- On September 28, 2024, staff attended the City of Richmond's Sea Level Rise Summit. This community event featured panelists with a range of specialties related to sea level rise resiliency planning, contaminated sites issues along Richmond's shoreline, and the importance of planning for sea level rise in Richmond and regional communities.