

Oakland Alameda Adaptation Committee

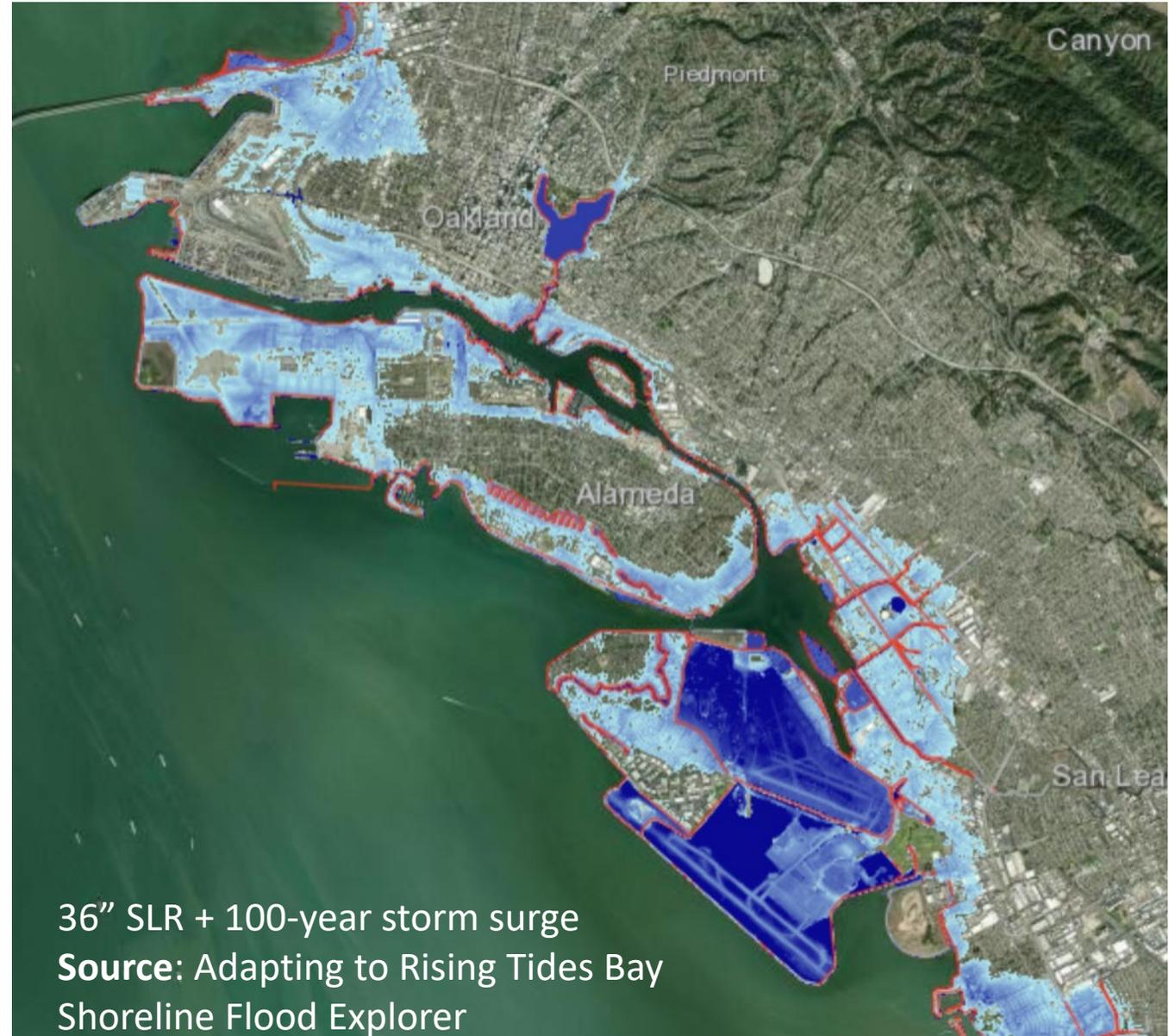
March 2024



Background: Sea Level Rise

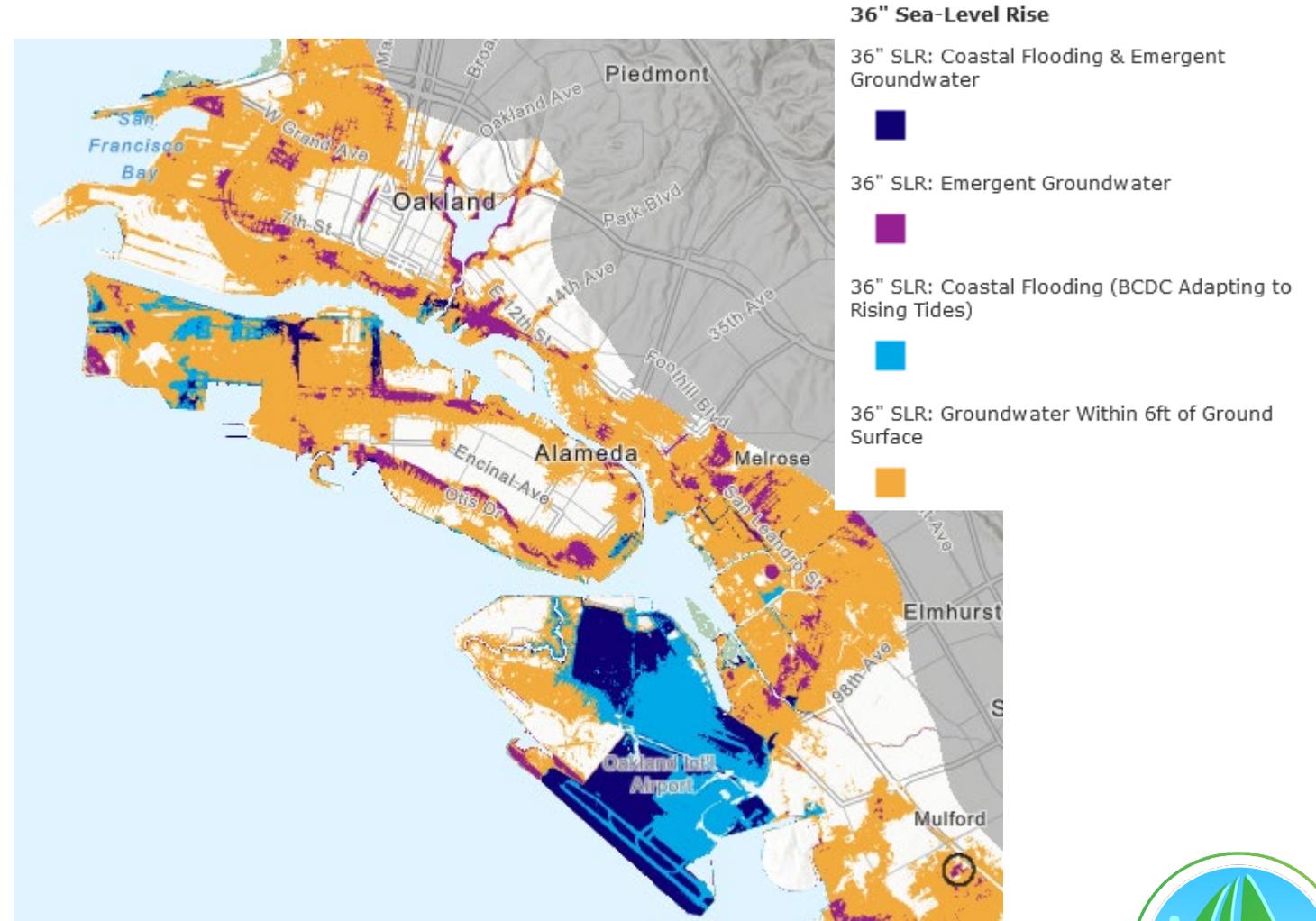
2/3 of CA impacts will be in Bay Area

- **Already seen:**
+8 inches SLR
- **Projected by 2050:**
9 to 12 inches
- **Projected by 2100:**
up to 4 feet
- **Costs (2050):**
\$110 B (committed funds = \$5 B)



Background: Groundwater Rise

- Flooding also from emergent groundwater
- Infiltration and corrosion underground
- Damage to roads and structures
- Contaminated sites
- Increased liquefaction

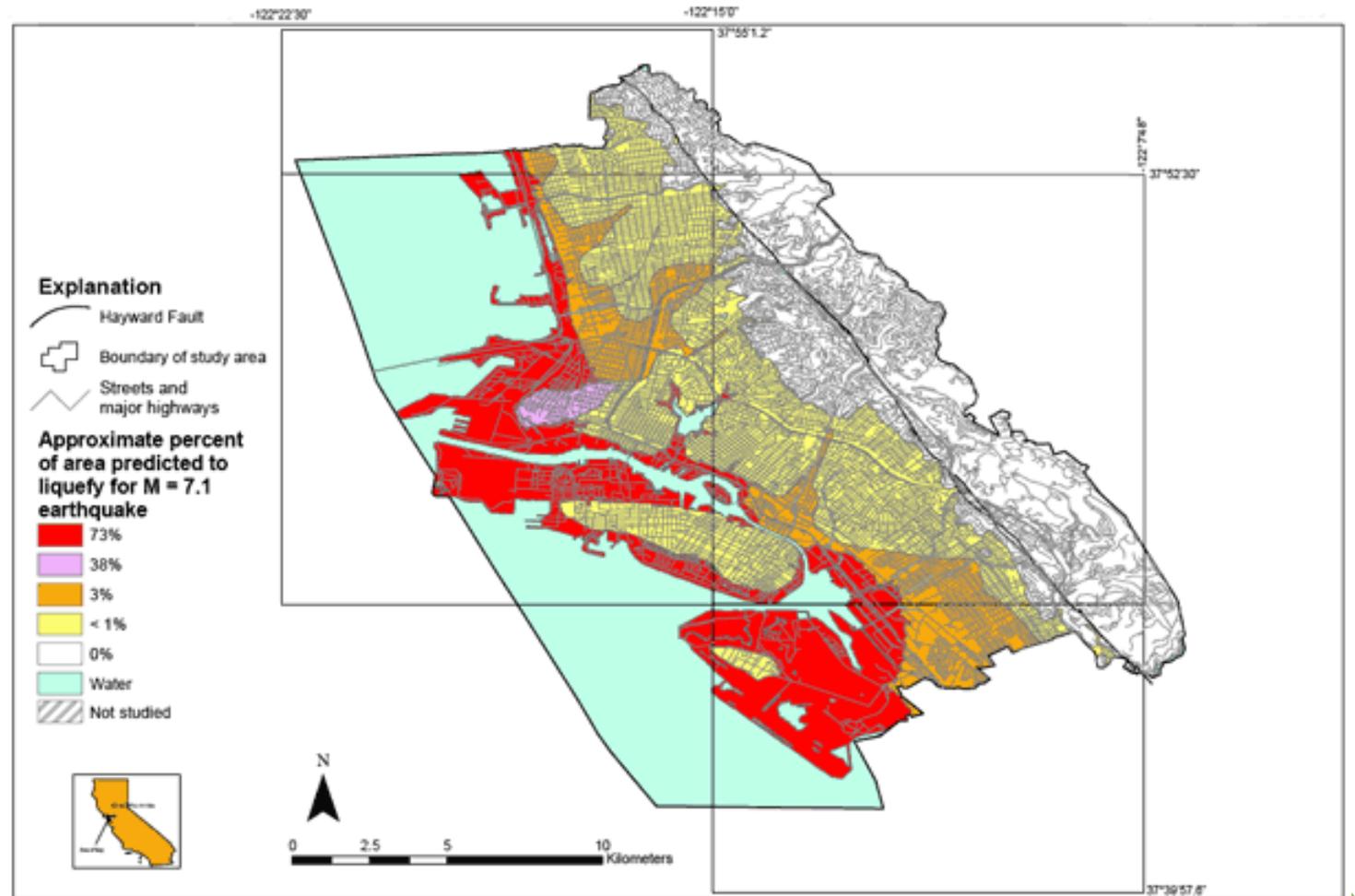


Source: SFEI Shallow groundwater response to sea-level rise



Background: Liquefaction

- Same areas with rising groundwater
- Increases risk of liquefaction
- Risk to structures and infrastructure in low-lying areas



Shaking Hazard Map for Northwestern Alameda County
Source: USGS [Open-file Report 02-296](#)

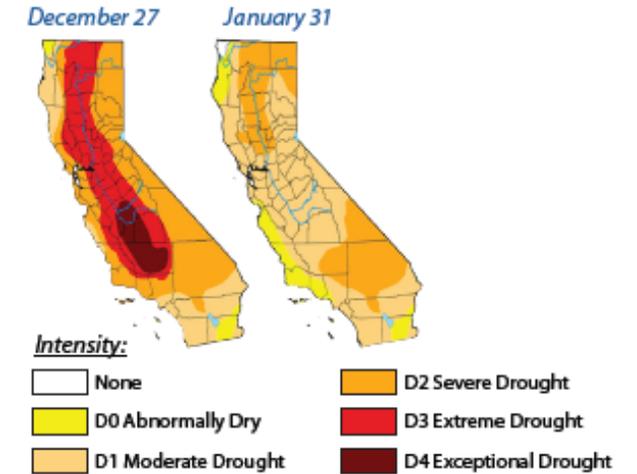


Background: Atmospheric Rivers

- Provide 50% of California's water supply
- Cause 90% of California's floods
- Expected to become stronger and wetter
- Expected to contribute to a larger share of precipitation with long periods of dry conditions



Drought Before and After ARs



Source: Center for Western Weather and Water Extremes https://cw3e.ucsd.edu/media_portal/



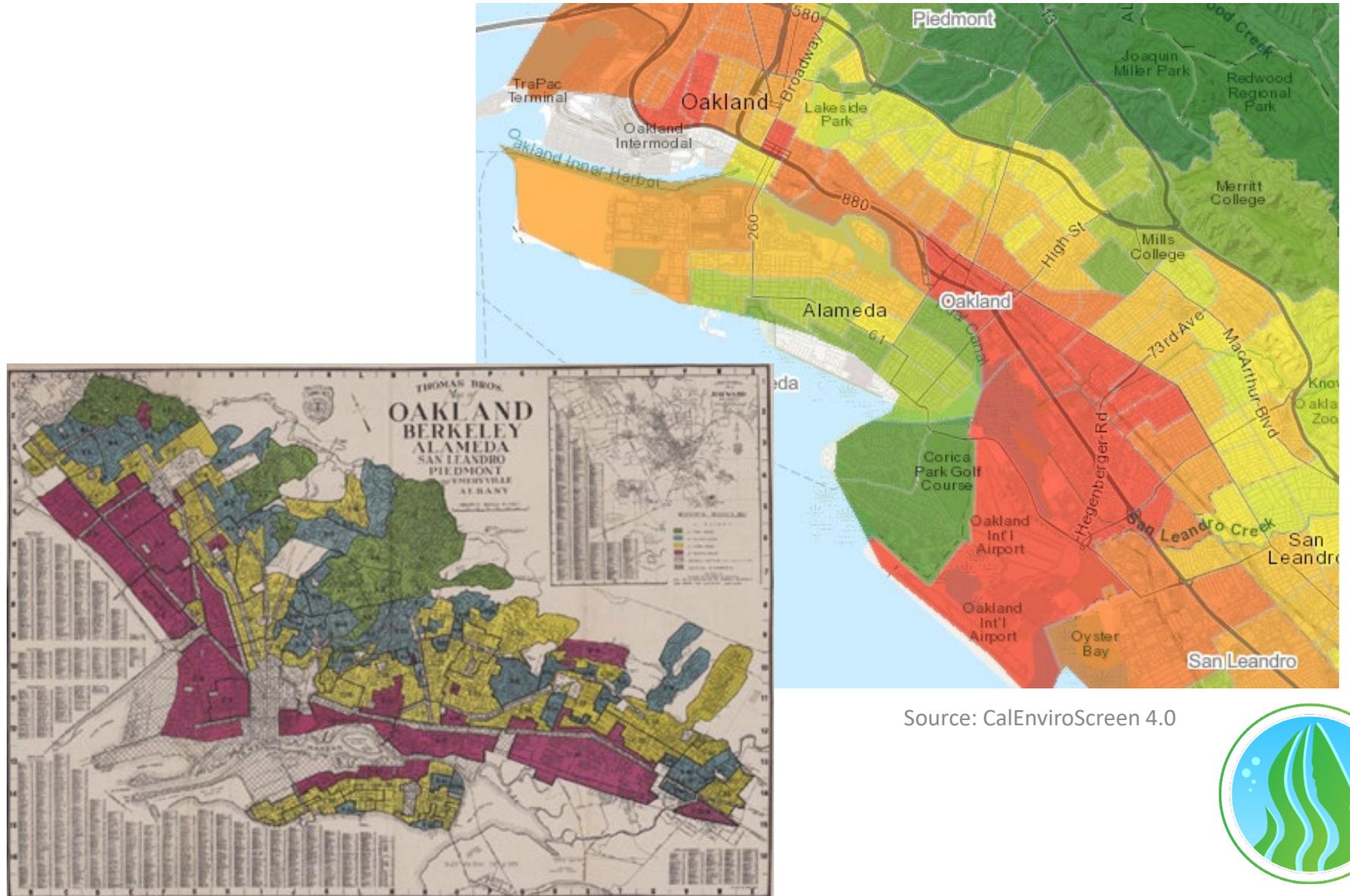
Background: Tsunamis

- Low probability of impact
- High risk of damage
- Caused by earthquakes, landslides, volcanic eruptions or meteors
- Can last 24 hours or more
- First surge not the largest



Background: Vulnerable Communities

- Acknowledge injustices and collective loss
- Consider who will suffer and who will lose money
- Address lived experience and today's issues



Source: CalEnviroScreen 4.0





The Estuary Commons:

People, Place, and a Path Forward

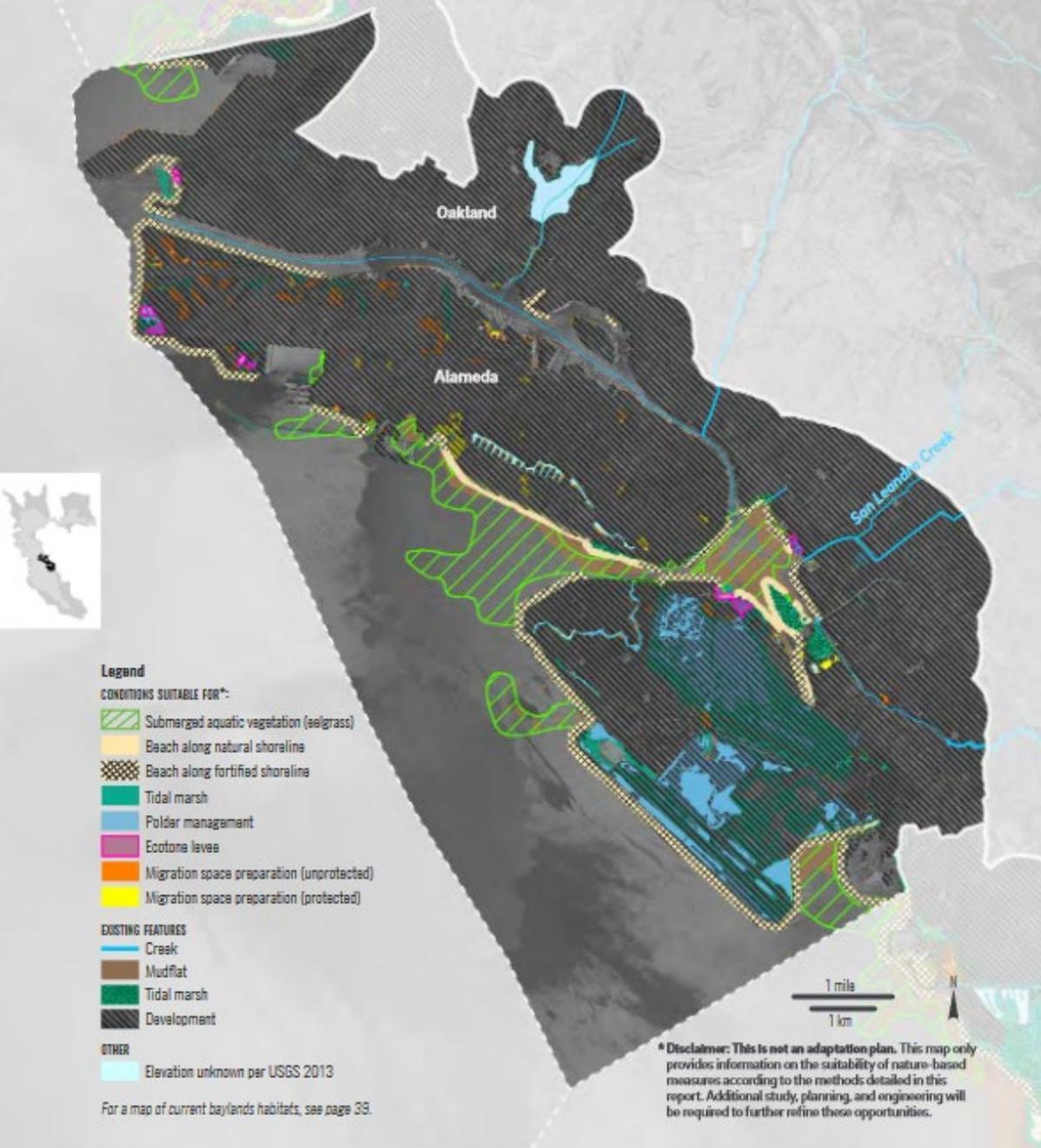
RESILIENT

BAY AREA CHALLENGE

BY

DESIGN

The **Oakland Alameda Adaptation Committee (OAAC)** coordinates the Oakland Alameda sub-region flood and adaptation projects to protect and restore water quality, habitat, recreation and community resilience.



San Leandro operational landscape unit (one of 30 OLU in Bay Area)

OAAC: Steering Committee

Agencies

- Caltrans
- City of Alameda
- City of Oakland
- East Bay Regional Park District
- Port of Oakland
- S.F. Bay Regional Water Quality Control Board
- Alameda County Flood Control Agency

Community Partners

- Community Action for a Sustainable Alameda
- Greenbelt Alliance
- Hood Planner/East Oakland Neighborhood Initiative
- Sogorea Te' Land Trust
- West Oakland Environmental Indicators Project



OAAC: Activities To Date

- **Met** quarterly since 2021 (with 27-62 participants)
- **Formed** steering committee and two subarea working groups
- **Adopted** charter and objectives
- **Participated** in fieldtrips and in-person meeting
- **Created** logo by Alameda High School students
- **Secured** funding and hired consultant team

= **trust building**



OAAC: Funded Projects (2023-2025)

Project Description	Funding	Area
1. Sub-regional Adaptation Plan www.alamedaca.gov/AdaptationLongTermPlan (Grant End Date: October 31, 2025)	\$300,000 SFEP \$540,000 NFWF = \$840,000	Oakland Alameda sub-region
2. Oakland-Alameda Estuary Adaptation Project www.alamedaca.gov/AdaptationEstuary (Grant End Date: February 28, 2025)	\$425,000 Caltrans \$75,000 Alameda = \$500,000	Alameda Tubes area & Oakland's Jack London District
3. Bay Farm Island Adaptation Project www.alamedaca.gov/AdaptationBayFarmIsland (Grant End Date: September 29, 2025)	\$1.5 million FEMA \$530,000 Alameda = \$2,030,000	Bay Farm Island & Doolittle Drive
Total Funding	\$3.37 million	



Consultants

- **Role:** Lead technical analysis for three funded adaptation projects
- **Budget:** \$2,767,000
- **Selected** by Steering Committee:
 - CMG Landscape Architecture (prime)
 - Pathways Climate Institute
 - Moffatt & Nichol
 - ESA
 - Schaaf & Wheeler
 - Earth Mechanics, Inc.
 - NHA Advisors



Community Partners

- **Role:** Lead community engagement process for three funded adaptation projects
- **Budget:** \$323,000
- **Selected** by Steering Committee:
 - Greenbelt Alliance (with Hood Planning Group, Ninth Root, Sogorea Té Land Trust and REAP Climate Center)
 - Community Action for a Sustainable Alameda (CASA)



Scientific Advisors

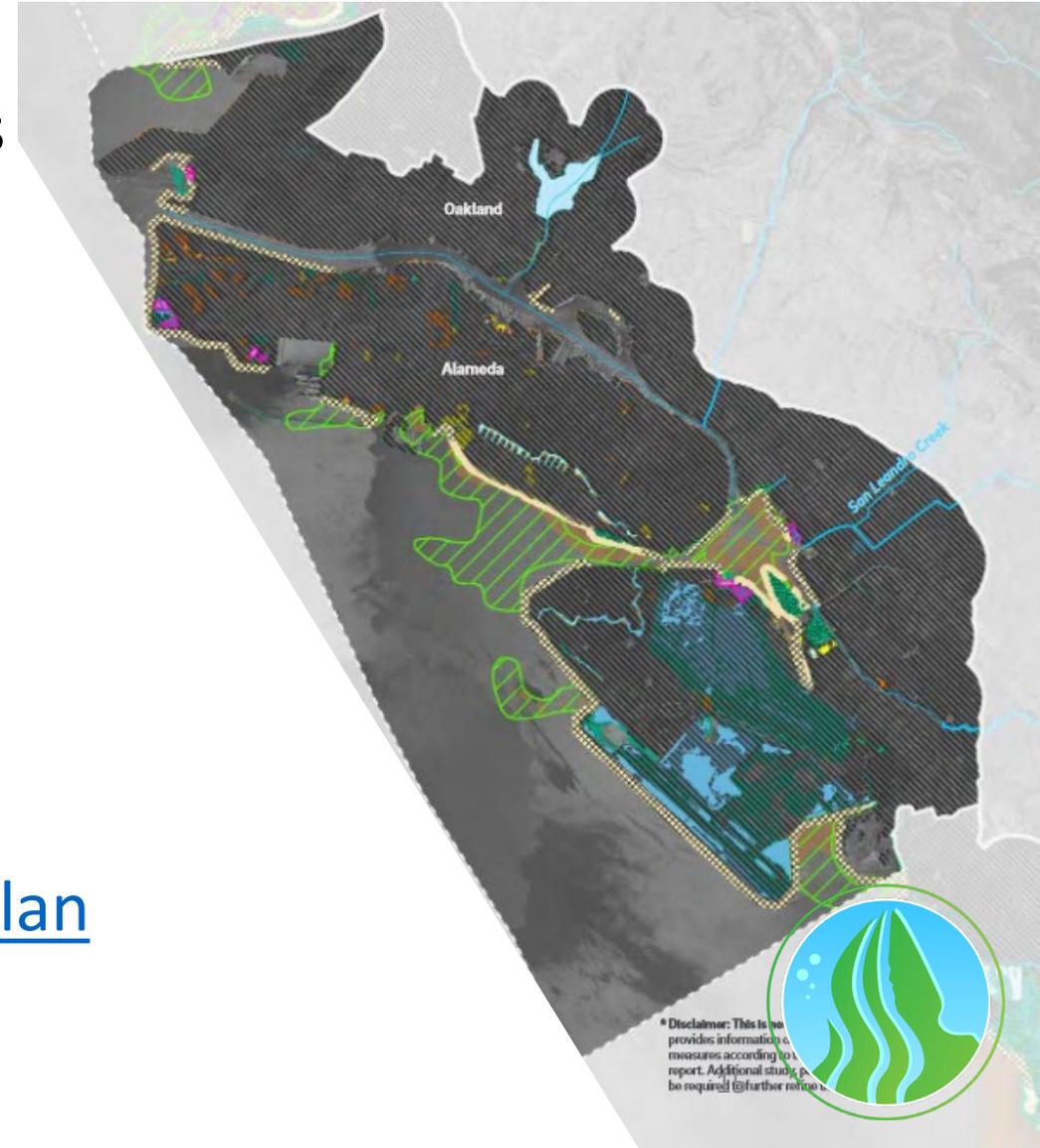
- **Role:** Provide technical review of documents
- **Budget:** \$35,000
- **Selected** San Francisco Estuary Institute



Sub-regional Adaptation Plan

- **Purpose:** Identify actions over time as shoreline changes to protect communities
- **Tasks:**
 - Agency coordination
 - Governance structure analysis
 - Community engagement
 - Draft and final long-term plan
- **Budget:** \$840,000
- **Terminates:** October 31, 2025

www.alamedaca.gov/AdaptationLongTermPlan



NFWF

* Disclaimer: This is not a final report. It provides information and measures according to the report. Additional study may be required @ further refinement.

Governance Interviews and Best Practices Approach

Part 1: Education, Interviews, and Focus Group with OAAC Members

Winter 2024

Part 2: Best Practices Review

- Includes presentations to Steering Committee
- Governance options shared during 1st round of outreach

Spring 2024

Part 3: Develop Draft White Paper

Early Summer 2024

Part 4: OAAC Workshop

Summer 2024

Part 5: Finalize White Paper

December 2024



Four Basic Governance Options

Lead Agency with Non-Binding MOU (or Charter)

Description

- Lead agency manages projects and contracts with a non-binding MOU with other public entity stakeholders

Examples

- Highway 37
- North Richmond
- Oakland Alameda Adaptation Committee

Description

- Lead agency manages projects and contracts with a legally binding MOU/MOA with other public entity stakeholders

Examples

- South Bay Salt Restoration Project

Lead Agency with Legally Binding MOU or MOA

Joint Powers Authority

Description

- Agencies enter into a Joint Powers Agreement, forming a new entity that can execute contracts, potentially levy fees or taxes, issue bonds, hire staff, and work collaboratively

Examples

- San Francisquito Creek JPA, Hayward Area Shoreline Planning Agency, Marin Wildfire Prevention Authority

Description

- A new agency is created through State legislation to address a specific issue
- The agency can: execute contracts, potentially levy fees or taxes, issue bonds, hire staff, work collaboratively, and may have other special powers authorized by legislation

Examples

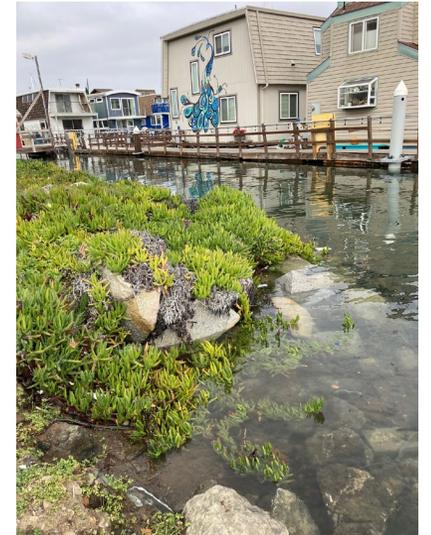
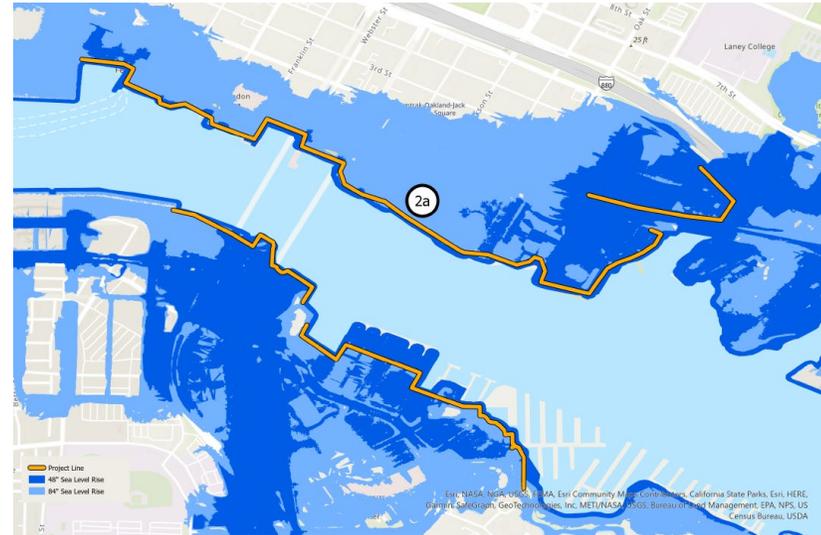
- San Francisco Bay Restoration Authority, Sacramento Area Flood Control Agency, One Shoreline, Fort Ord Reuse Authority

Hybrid State Agency / JPA (Special District)



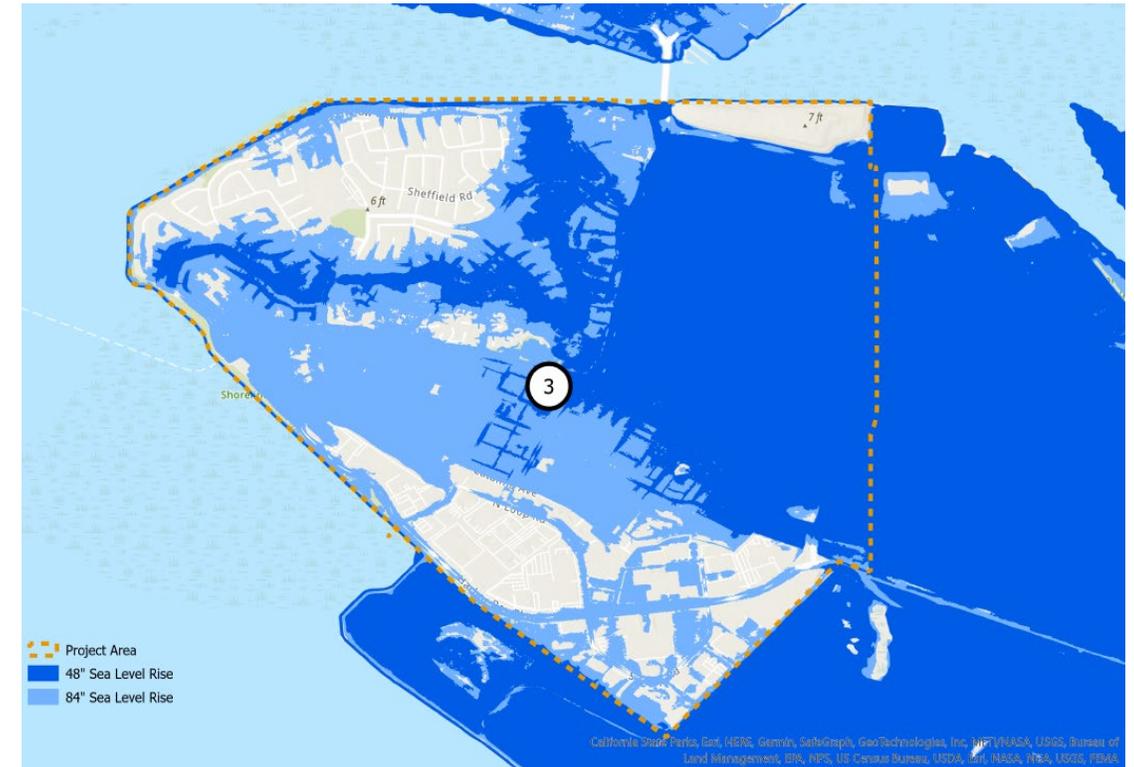
Oakland Alameda Estuary Project

- **Purpose:** Develop concept to protect Jack London District, Alameda's northern shoreline, and Posey-Webster Tubes
- **Tasks:**
 - Alternatives
 - Public engagement
 - Concept (10% design)
- **Budget:** \$500,000
- **Terminates:** February 28, 2025



Bay Farm Island Adaptation Project

- **Purpose:** Develop design for short-term fixes on northern waterfront and long-term plan for entire Bay Farm Island
- **Tasks:**
 - Alternatives
 - Public outreach
 - Northern waterfront design
 - Coordinate permitting
 - Long-term concept
- **Budget:** \$2 million
- **Terminates:** September 29, 2025

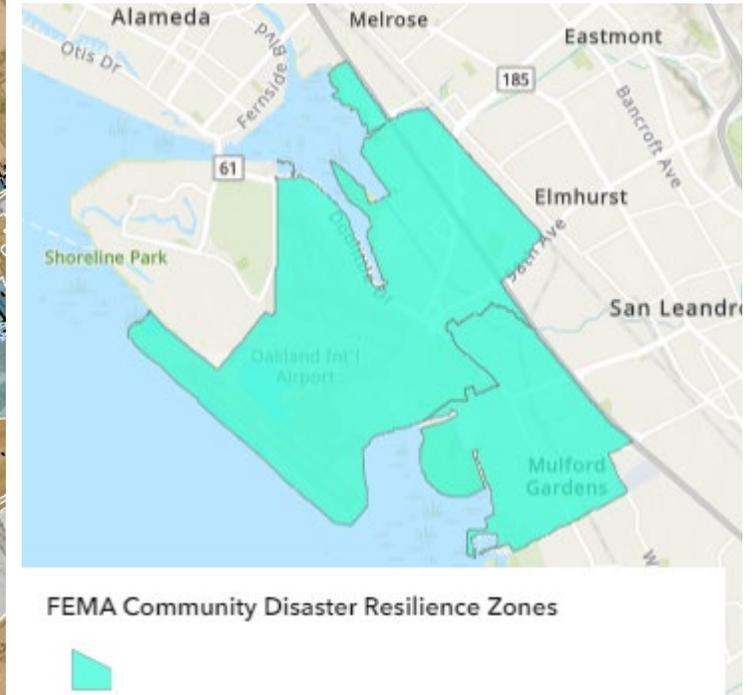
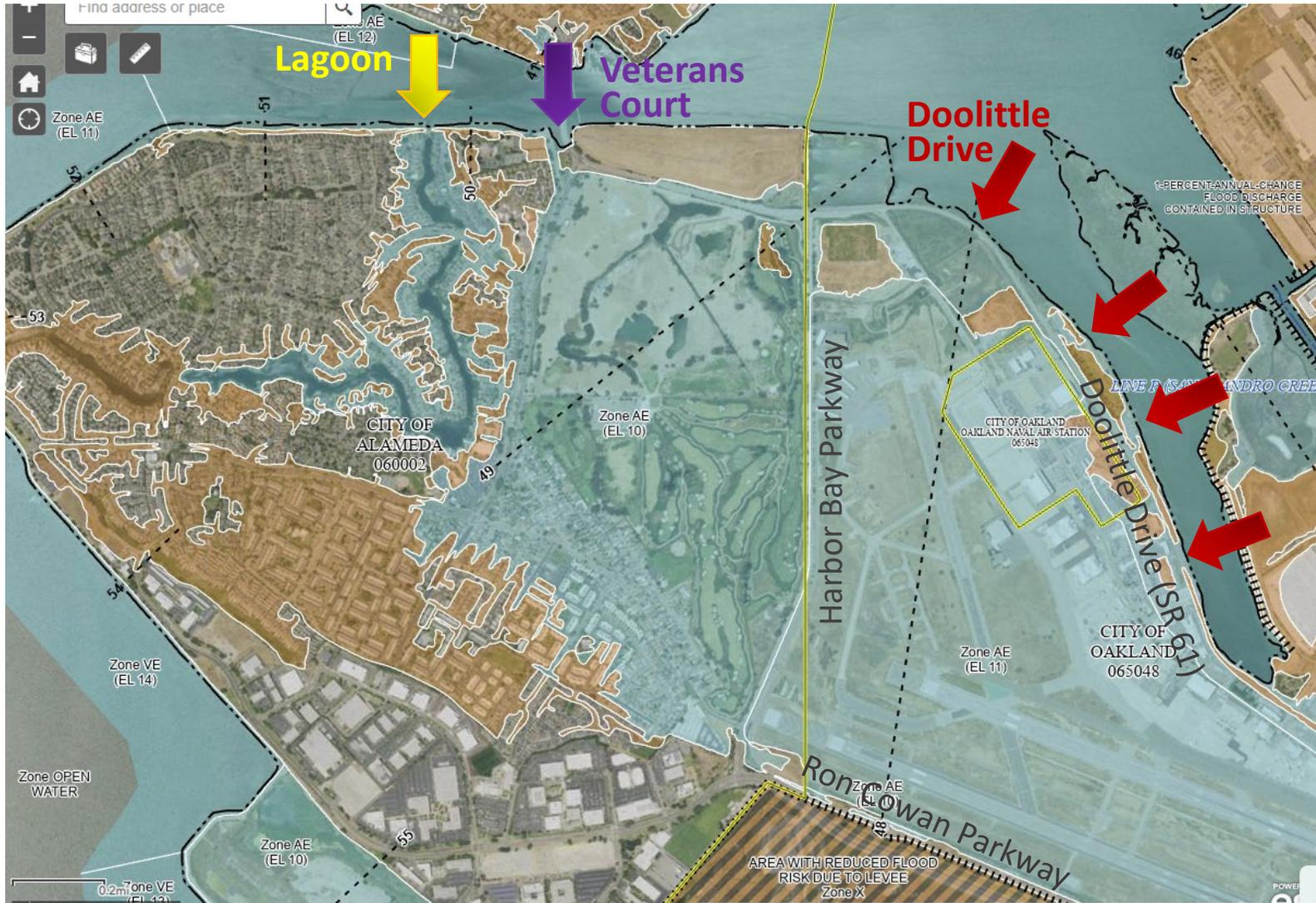


FEMA

www.alamedaca.gov/AdaptationBayFarmIsland



BFI Adaptation Project: Next Steps



FEMA Community Disaster Resilience Zones



BFI/Airport CDRZ: BRIC Request



BRIC federal:
\$50 m (90%)

Non-federal:
\$5.5 m (10%)

Total: \$55.5 m

Start: 2025

Construction:
2028



Next Steps

- 2023
 - Sept: Kick-off
 - Existing Conditions
 - Engagement Strategy
- 2024
 - Alternatives & Outreach
 - Seeking grant funding for next phases
- 2025: Concept Designs & Governance Recommendations
- 2025-2030: Design & Construction (pending funding)



Learn more:

www.alamedaca.gov/OaklandAlamedaAdaptationCommittee

