

Work Session on Status of Sub-Regional Adaptation Planning and Proposed Application for Federal Funds for Implementation



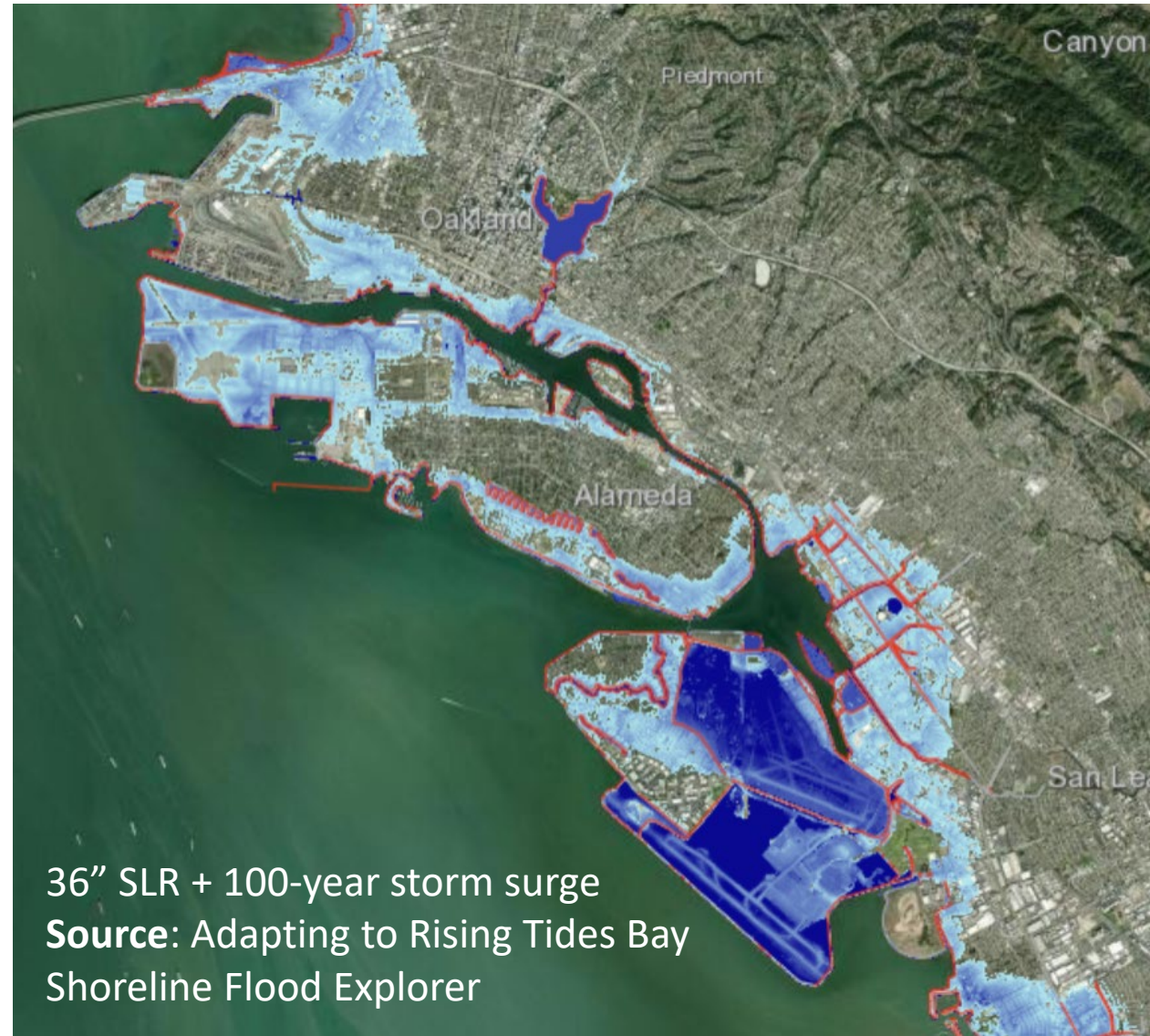
Purpose of Work Session

1. Provide an update on Sub-regional Adaptation Planning
2. Seek direction on recommendation to apply for FEMA BRIC grant



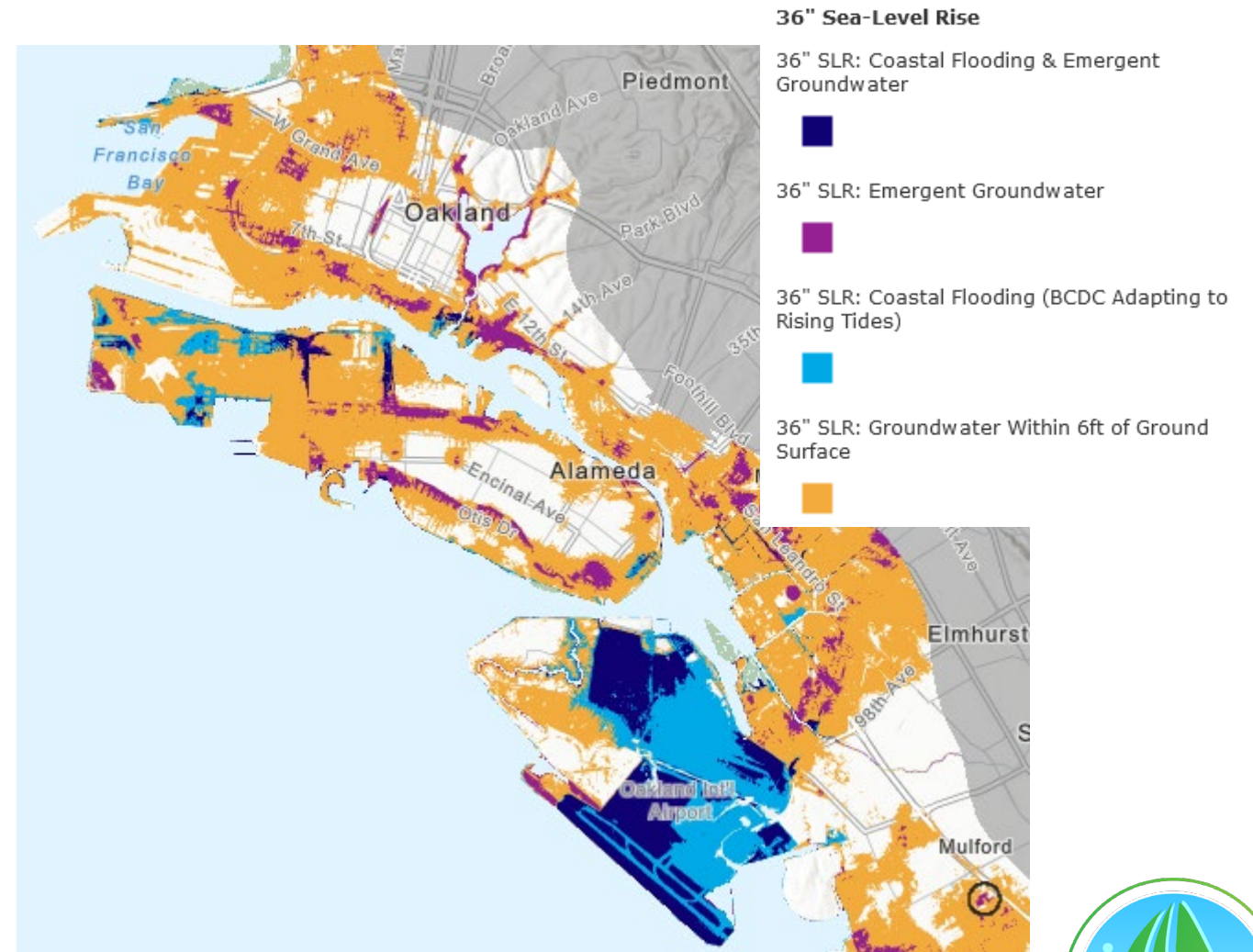
Background: Sea Level Rise

- **Already seen:**
+8 inches SLR
- **Projected by 2050:**
1 foot
- **Projected by 2100:**
4 feet
- **Costs:** \$110 B for Bay Area (Alameda County = \$22 B)



Background: Groundwater Rise

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



Source: SFEI Shallow groundwater response to sea-level rise



City Council Direction to Date

Policy Direction

- 2019: Adopted CARP with priority flooding locations for mitigation
- 2023: Adopted Climate Adaptation and Hazard Mitigation Plan and amended General Plan Safety Element with priority flooding locations
- 2023: Adopted Strategic Plan with adaptation as top priority

Priority Projects

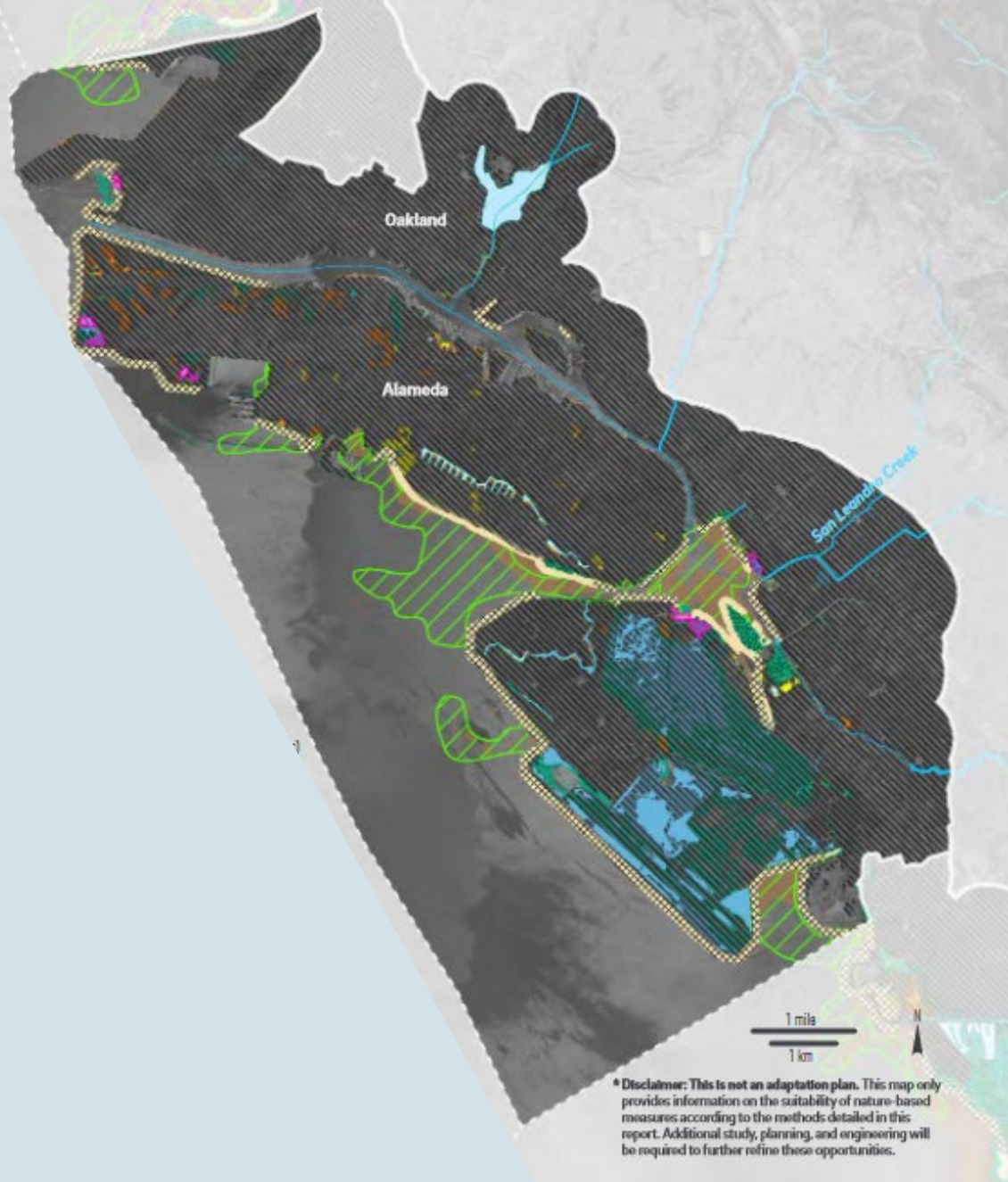
- 2020-23: Approved funding and grants for priority projects
- 2021: Formed Oakland Alameda Adaptation Committee (OAAC)
- 2023: Approved Community Partners and Consultant Team to lead projects and community engagement



CARP directive: Establish a cooperative shoreline management program... Consider management options through the frames of society and equity, economy, environment, and governance.



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.



* Disclaimer: This is not an adaptation plan. This map only provides information on the suitability of nature-based measures according to the methods detailed in this report. Additional study, planning, and engineering will be required to further refine these opportunities.

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

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



West Oakland
Environmental
Indicators
Project



OAAC: Funded Projects (2023-2025)

Oakland-Alameda Adaptation Committee Projects



Sub-regional
Adaptation
Plan

Oakland-
Alameda
Estuary
Adaptation
Project

Bay Farm
Island
Adaptation
Project



cmg

Landscape
Architecture



pathways
CLIMATE INSTITUTE

ESA



moffatt & nichol

Schaaf & Wheeler
CONSULTING CIVIL ENGINEERS

NHA | ADVISORS
Financial & Policy Strategies.
Delivered.



Earth Mechanics, Inc.
Geotechnical and Earthquake Engineering

Community Partners

- **Role:** Lead community engagement process for three funded adaptation projects
- **Budget:** \$323,000
- **Selected** by Steering Committee



Scientific Advisors

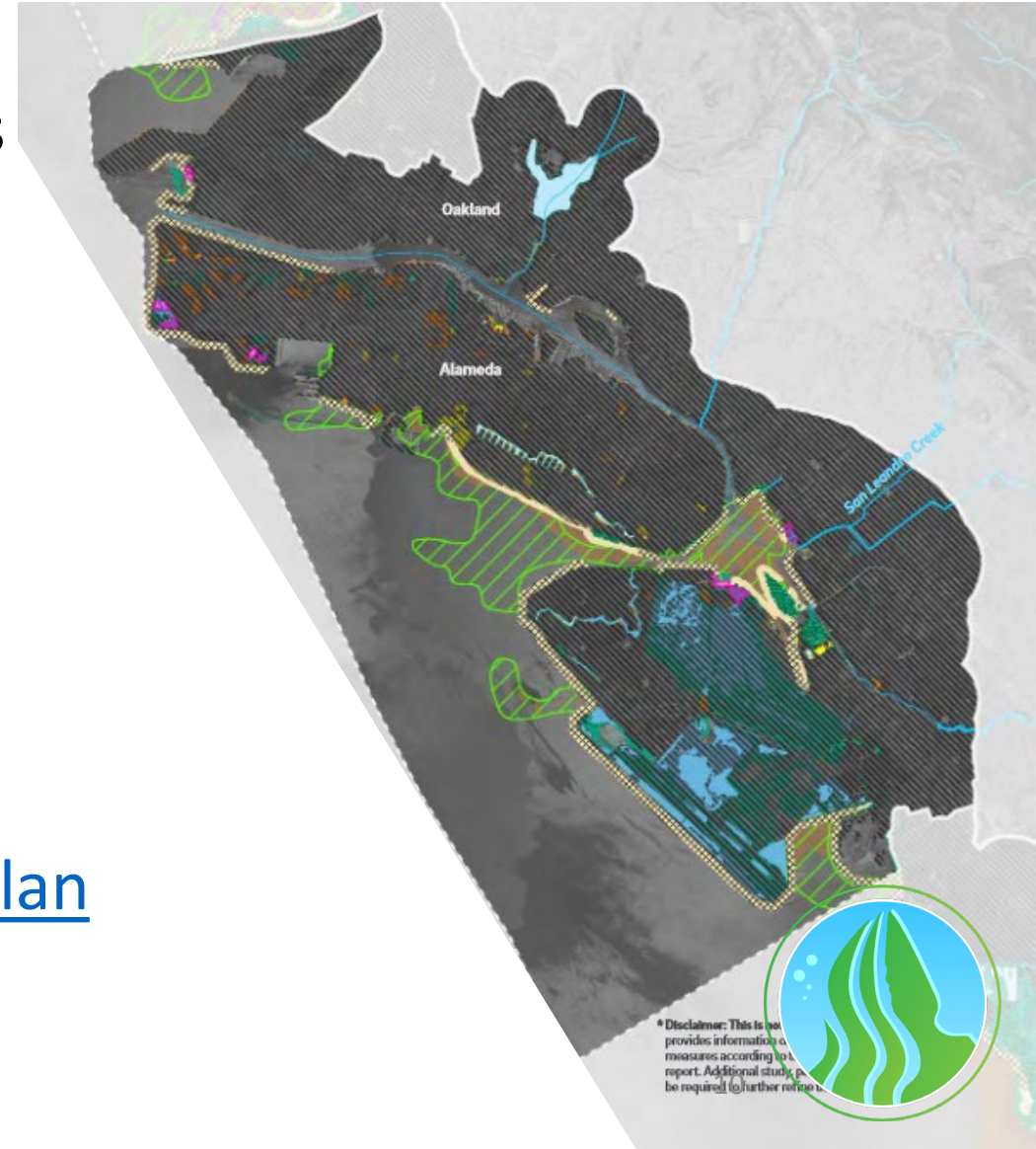
- **Role:** Provide technical review
- **Budget:** \$35,000



Project 1: Sub-regional Adaptation Plan

- **Purpose:** Identify actions over time as shoreline changes to protect communities
- **Milestones:**
 - Feasibility assessment (spring 2024)
 - Governance structure (2024)
 - Two rounds of outreach (2024 & 2025)
 - Request City Council approval (fall 2025)
- **Budget:** \$840,000
- **Grant End Date:** October 31, 2025

www.alamedaca.gov/AdaptationLongTermPlan



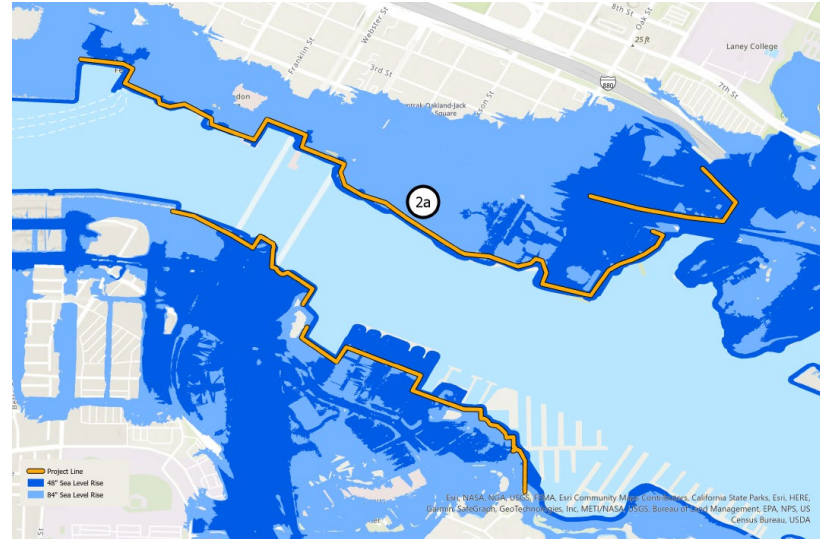
* Disclaimer: This is not a final report. It provides information and measures according to the current report. Additional study may be required to further refine the plan.



Project 2: Oakland-Alameda Estuary Adaptation Project

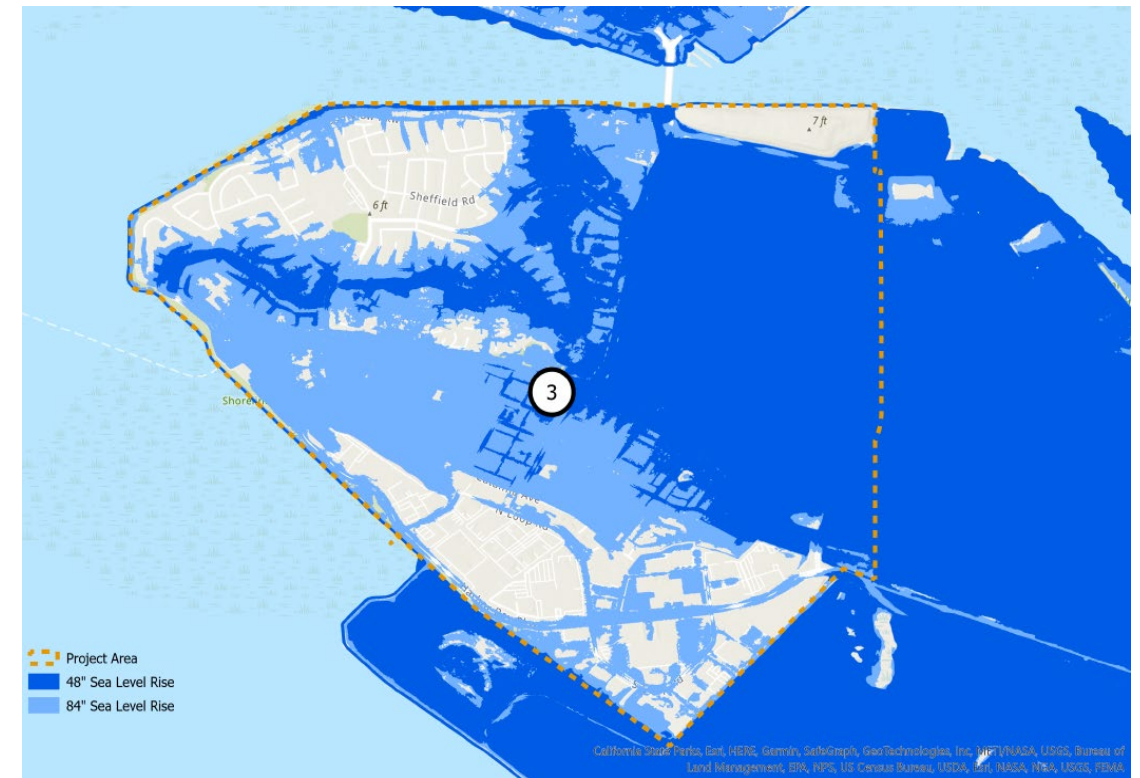
- **Purpose:** Develop concept design to protect Jack London District and Alameda's Posey-Webster Tubes
- **Milestones:**
 - Alternatives (spring 2024)
 - Draft concept design (mid-2024)
 - Two rounds of outreach (2024)
 - Request City Council approval (early 2025)
- **Budget:** \$500,000
- **Grant End Date:** Feb. 28, 2025

www.alamedaca.gov/AdaptationEstuary



Project 3: Bay Farm Island Adaptation Project

- **Purpose:** Develop design for short-term fixes on northern waterfront and long-term plan for entire Bay Farm Island
- **Milestones:**
 - Alternatives (spring 2024)
 - Draft design (fall 2024)
 - Two rounds of outreach (2024 & 2025)
 - Request City Council approval (mid-2025)
- **Budget:** \$2 million (Congresswoman Barbara Lee federal earmark)
- **Grant End Date:** September 29, 2025

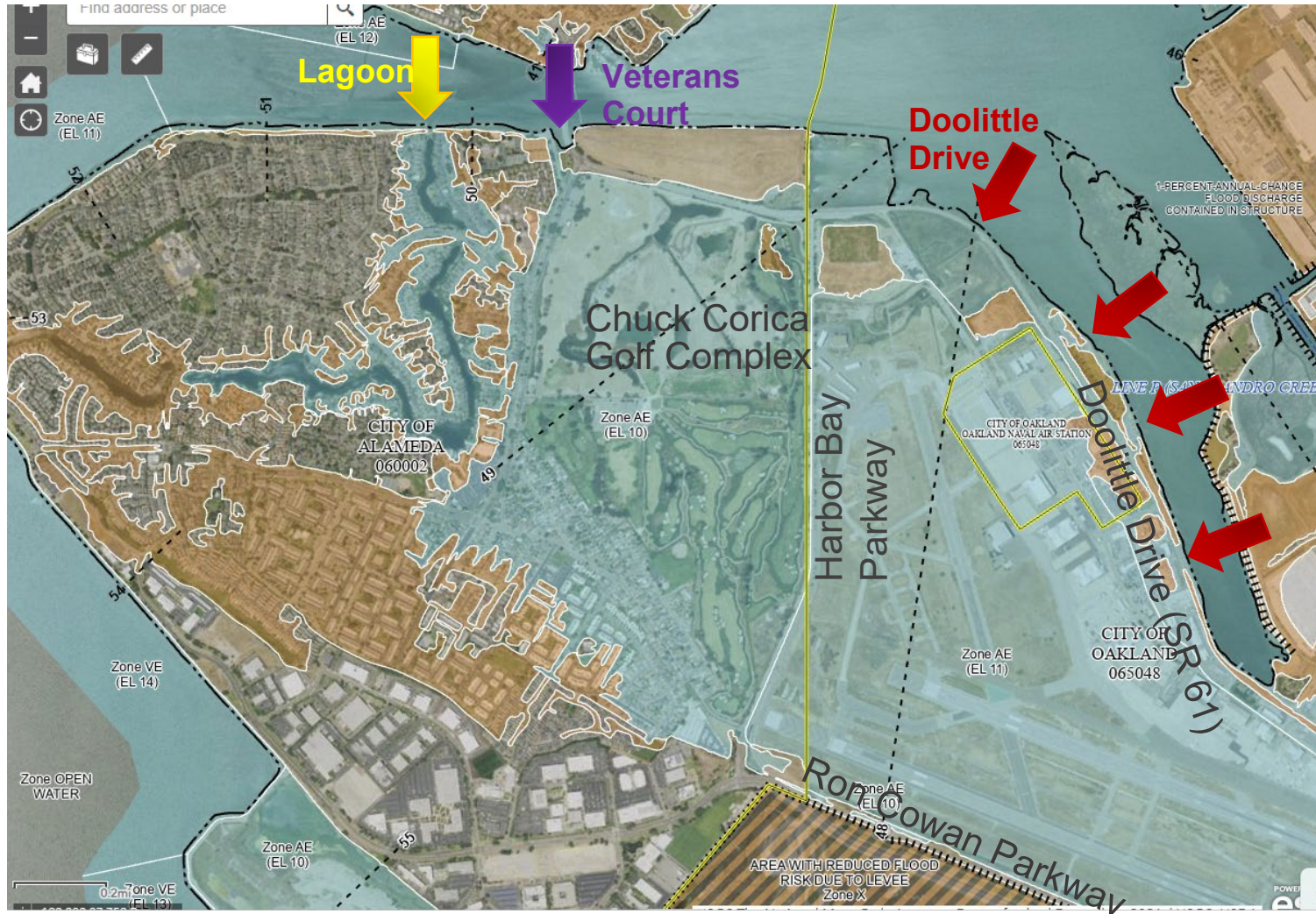


FEMA

www.alamedaca.gov/AdaptationBayFarmIsland



BFI Adaptation Project: Next Steps

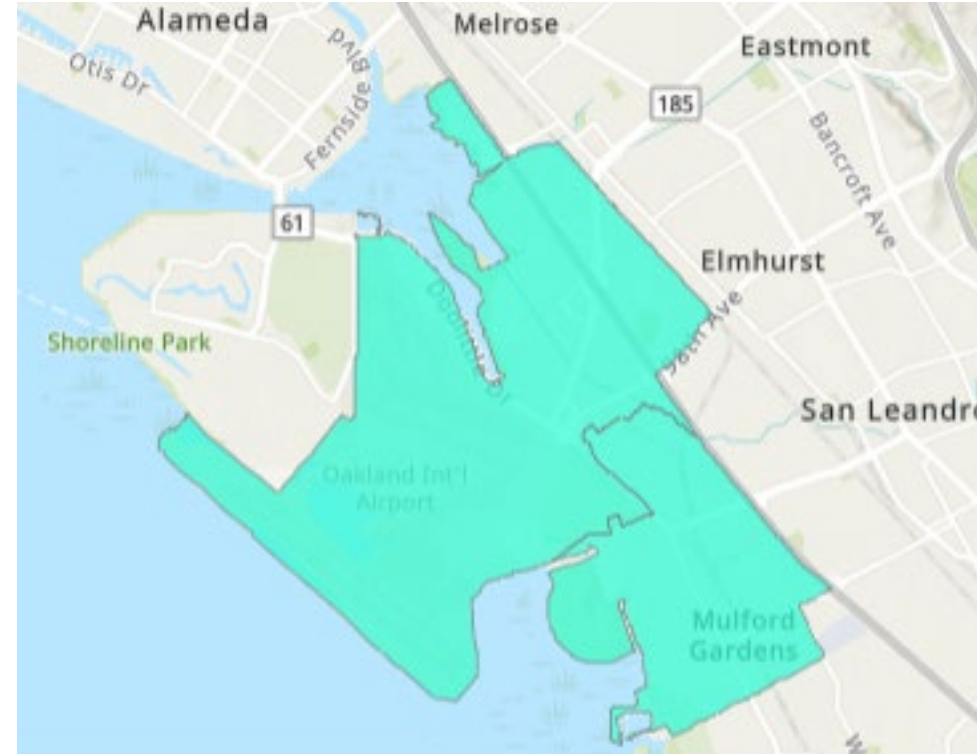


- Flooding on Bay Farm results from overtopping Doolittle Drive, the lagoon outfall, and Veterans Court
- All entry points be addressed to remove these areas from the floodplain



FEMA BRIC Grant Priorities

- Grant supports projects that reduce risks from disasters and natural hazards
- 20% funding directed to CDRZs
- Projects in CDRZs require 10%, instead of 25%, match
- Additional 40 points for CDRZs
- \$50M maximum federal share



FEMA Community Disaster Resilience Zones



BFI/Airport CDRZ: BRIC Request



BRIC federal:
\$50 m (90%)

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

Total: \$55 m

Start: 2025

Construction:
2028



BFI/Airport CDRZ: BRIC Request (cont.)

BRIC Costs	%	\$ million
1. Doolittle Drive / SR-61 / SF Bay Trail	42%	\$23.5
2. Northern Shoreline (Bay Farm Island)	18%	\$9.8
3. Veterans Court (Bay Farm Island)	6%	\$3.3
4. Columbian Gardens Stormwater Flooding (East Oakland)	19%	\$10.5
5. BFI Lagoon (Bay Farm Island)	11%	\$6.1
6. Tidal Marsh Enhancement	4%	\$2.3
Total project cost		\$55.5
Federal Share		\$50.0
Non-federal Share		\$5.5

Non-Federal Share (10%)	% Share	\$ million
Port (#1 and 6)	46%	\$2.6
Oakland (#4)	19%	\$1.0
Alameda (#2, 3, 5)	35%	\$1.9
Total	100%	\$5.5

- Port of Oakland share has been committed
- City of Oakland will request commitment from City Council on February 20, 2024



Overwhelming Support for BRIC Application

- Assemblymember Mia Bonta
- City of Oakland Mayor Sheng Thao
- City of Oakland D7 Councilmember Treva Reid
- Supervisor Lena Tam
- Port of Oakland
- San Francisco Bay Trail
- San Francisco Water Board
- San Francisco Estuary Institute
- San Francisco Estuary Partnership
- CHBIOA
- EBRPD
- EBMUD
- CASA
- Confederated Villages of Lisjan Nation
- Greenbelt Alliance
- The Hood Planning Group



Recommendation

1. Accept an update on Sub-regional Adaptation Planning
2. Provide direction on recommendation to apply for FEMA BRIC grant



Next Steps

- Return to City Council on consent on Feb 20th for authorization to apply for BRIC grant
- Return later in 2024 for review and approval of governance options and key decision points



Potential 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)



Plan: Funding Sources

- Federal
 - Federal Emergency Management Agency (FEMA)
 - National Oceanic & Atmospheric Admin. (NOAA)
 - US Army Corps of Engineers (USACE)
 - Water Resources Development Act (WRDA)

Non-federal Match Examples

- State
 - Sub-regional plans receive priority (SB 272)
 - Caltrans
 - California Air Resources Board
 - California Infrastructure and Economic Development Bank
 - State Coastal Conservancy
 - Wildlife Conservation Board
- Regional Measure AA (SF Bay Restoration Authority)
- County Measure BB grants (Alameda CTC)
- Local Stormwater Fee (Oakland and Alameda)
- Foundations (Bay Area Council & Kresge)



fields Filter Group Sort ...

Grant program	Organization	Category
Continuing Authorities Program	US Army Corps of Engineers (USACE)	Coastal resilience Climate resilience Water Conservation / restoration



New Federal Grant Opportunities

Many more opportunities are at [grants.gov](https://www.grants.gov).

Infrastructure opportunities and info at [build.gov](https://www.build.gov).

Inflation Reduction Act opportunities and info at [cleanenergy.gov](https://www.cleanenergy.gov).

[Bipartisan Infrastructure Law: Open and Upcoming Funding Opportunities](#)

