



April 14, 2017

San Francisco Bay Restoration Authority

Multi-jurisdictional, multi-benefit projects in Silicon Valley

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San Francisco Bay

This is a satellite map of the San Francisco Bay area. The bay itself is a large, dark green body of water in the center. Surrounding it are various landmasses, including the city of San Francisco to the north and east, and the Marin Peninsula to the west. A yellow line is drawn along the southern shore of the bay, separating the city from the surrounding hills. A red star with a red arrow points to a location on the southern shore, labeled 'You are here'. The label 'Redwood City' is placed on the western side of the yellow line, and 'Mt. View' is placed on the eastern side. The terrain is a mix of urban development, green fields, and rugged, hilly areas.

Redwood City

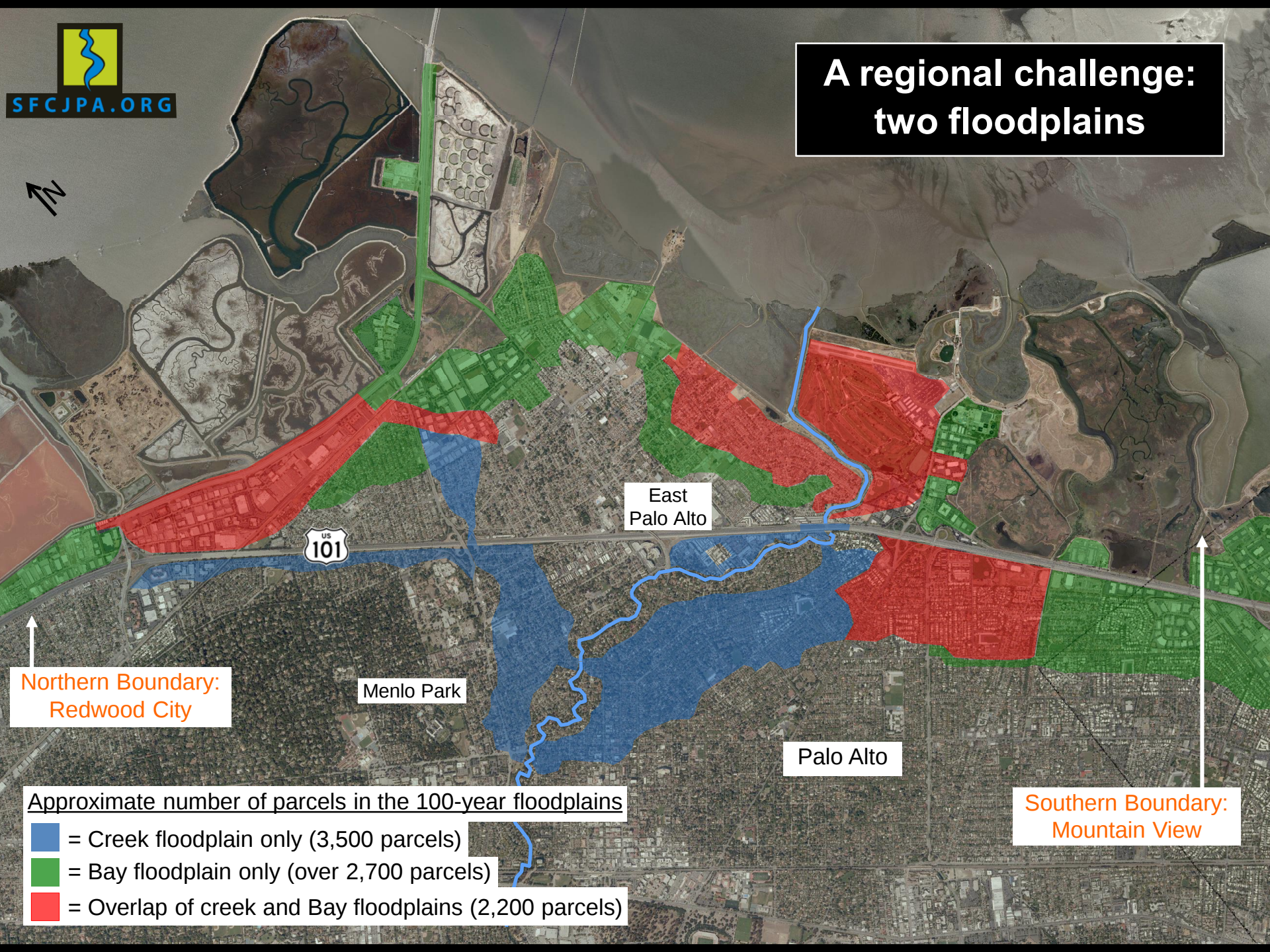
You are
here

Mt. View



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A regional challenge: two floodplains



Northern Boundary:
Redwood City

Menlo Park

East
Palo Alto

Palo Alto

Southern Boundary:
Mountain View

Approximate number of parcels in the 100-year floodplains

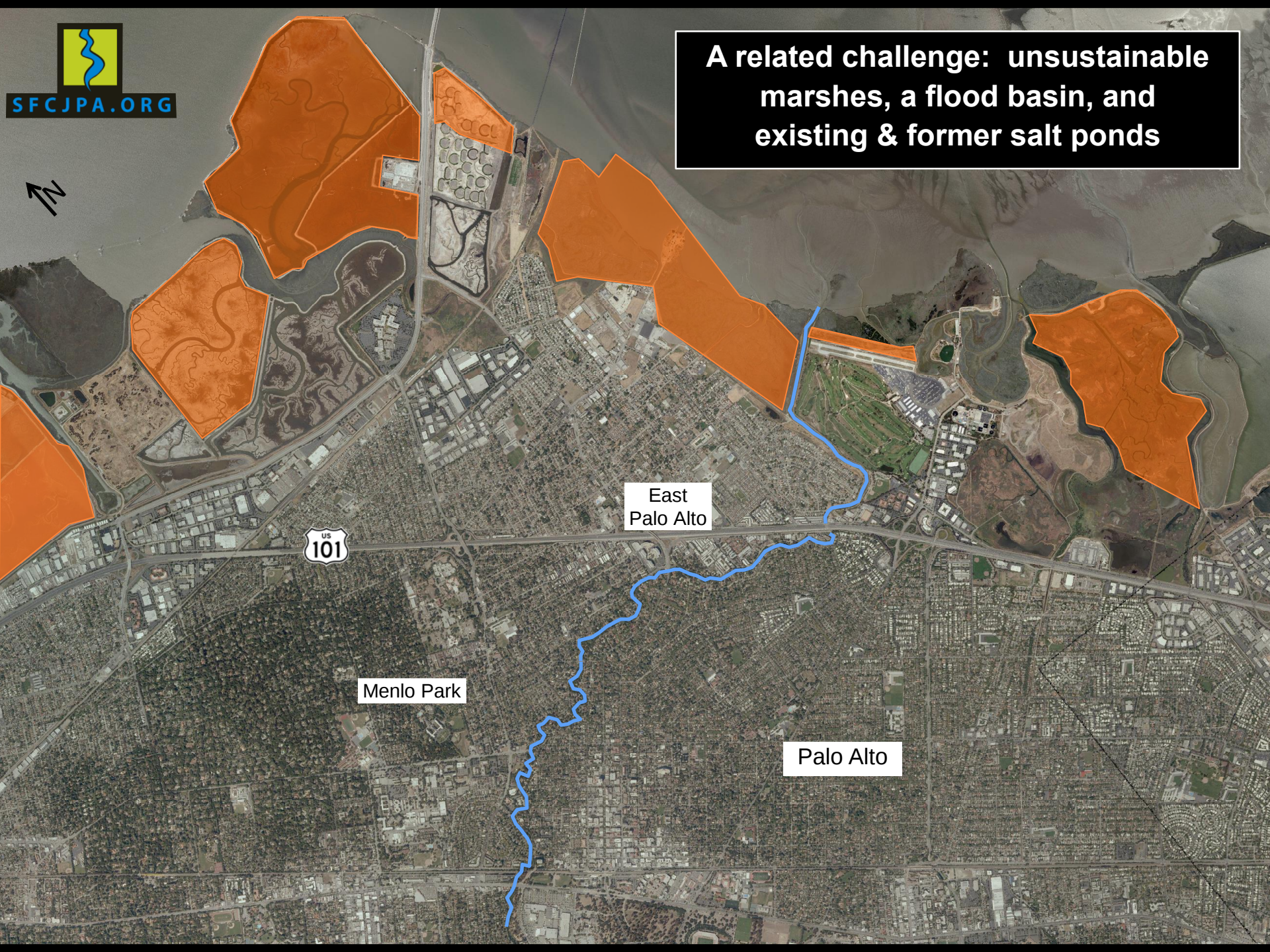
-  = Creek floodplain only (3,500 parcels)
-  = Bay floodplain only (over 2,700 parcels)
-  = Overlap of creek and Bay floodplains (2,200 parcels)



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**A related challenge: unsustainable
marshes, a flood basin, and
existing & former salt ponds**



East
Palo Alto

US
101

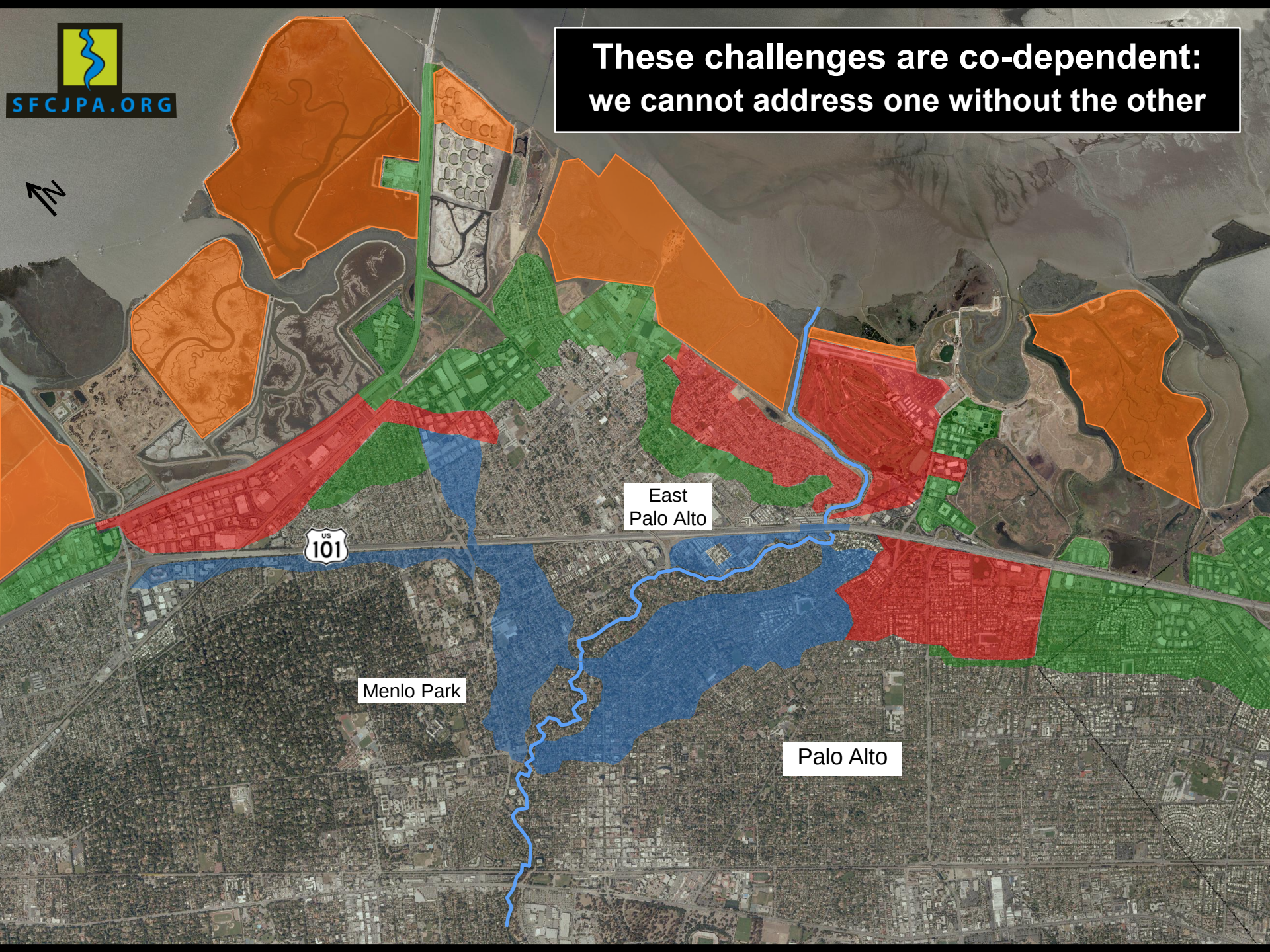
Menlo Park

Palo Alto



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**These challenges are co-dependent:
we cannot address one without the other**

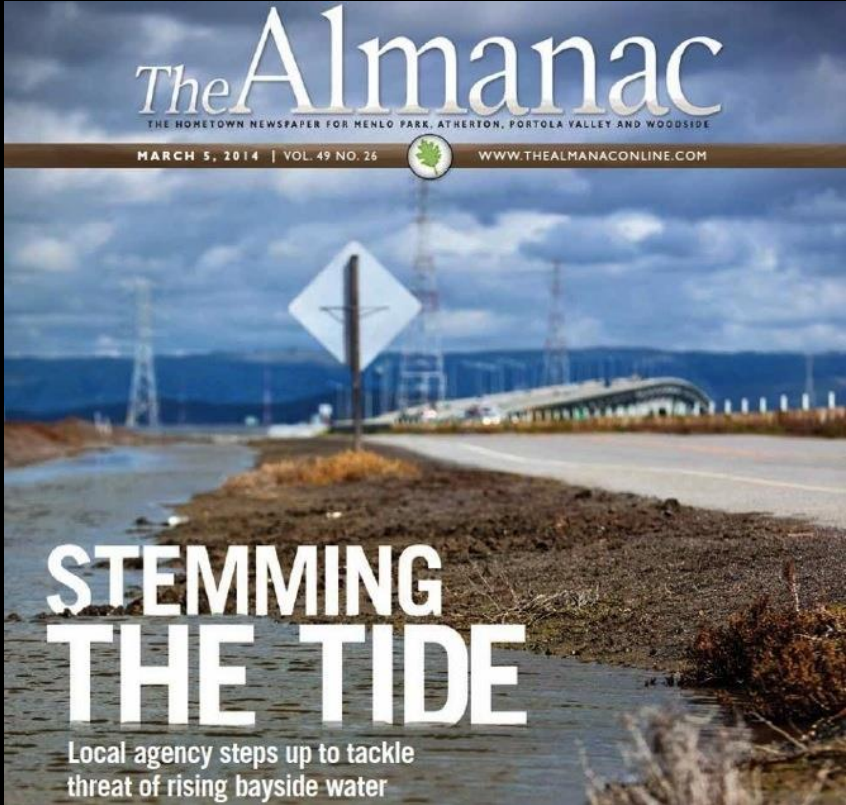


**Flooding here is not just a
modeled problem**

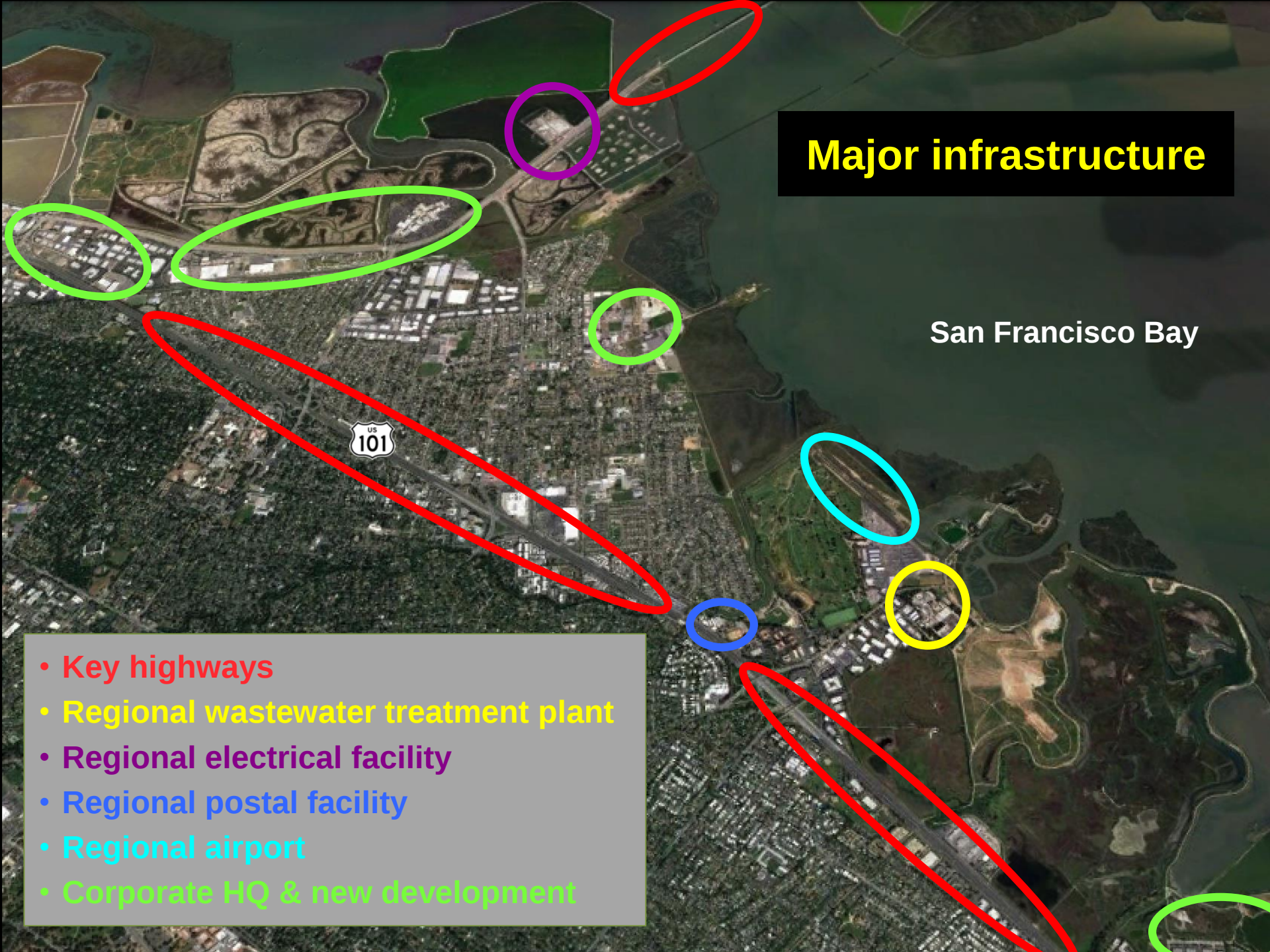




January 2015 King Tide



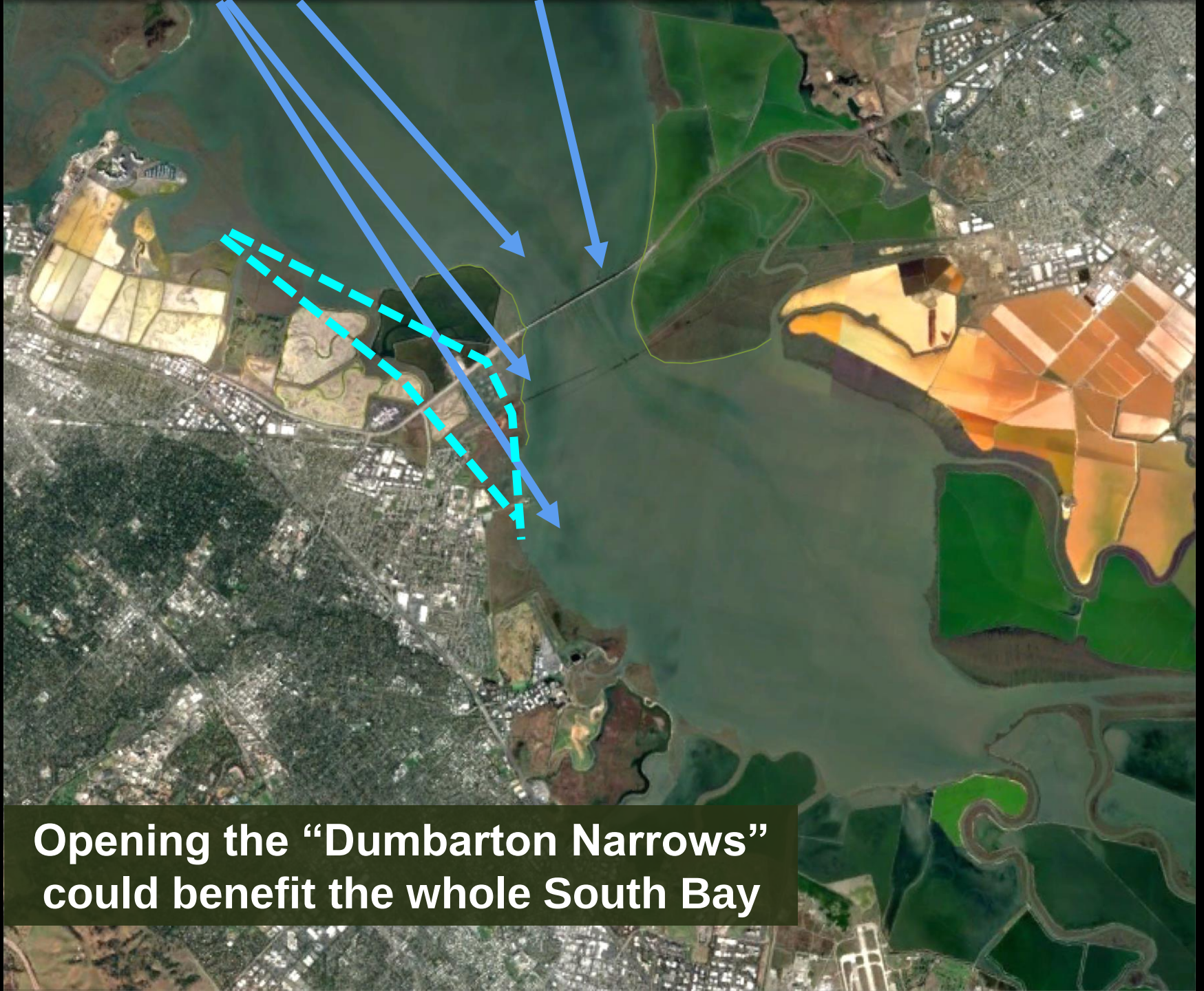


An aerial photograph of San Francisco, California, showing the city's layout and surrounding water bodies. The map is annotated with several colored ovals and a large red line. A black box in the top right corner contains the text 'Major infrastructure' in yellow. A white box in the bottom left corner contains a list of infrastructure types in various colors. The text 'San Francisco Bay' is written in white on the right side of the map. A 'US 101' highway shield is visible in the center-left. The red line starts from the top left, goes down the coast, and then curves around the bottom right. The green ovals highlight a residential area in the top left, a large industrial area in the top center, and a small area in the bottom right. The purple oval highlights a large industrial facility in the top center. The blue oval highlights a small industrial area in the center. The yellow oval highlights a large industrial area in the bottom right. The cyan oval highlights a large industrial area in the bottom right. The red oval highlights a large industrial area in the bottom right.

Major infrastructure

San Francisco Bay

- Key highways
- Regional wastewater treatment plant
- Regional electrical facility
- Regional postal facility
- Regional airport
- Corporate HQ & new development



**Opening the “Dumbarton Narrows”
could benefit the whole South Bay**



Public Draft Feasibility Report

SAFER Bay Project

Strategy to Advance

Flood protection, Ecosystems and
Recreation along San Francisco Bay

East Palo Alto and Menlo Park

(Task Order 1)

October 2016

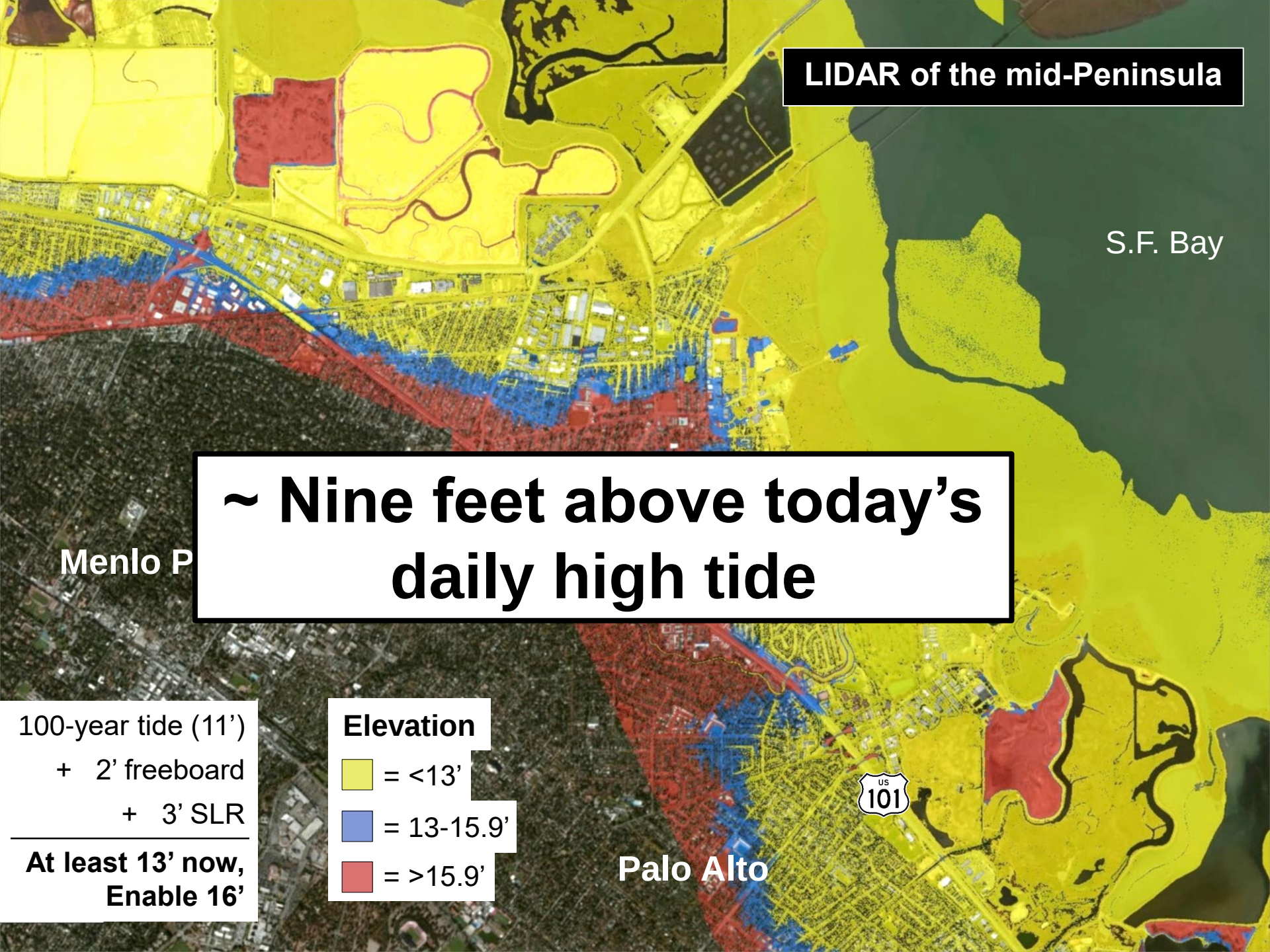
Available at sfcjpa.org



S F C J P A . O R G

San Francisquito Creek
Joint Powers Authority

615 B Menlo Avenue
Menlo Park, CA 94025



LIDAR of the mid-Peninsula

S.F. Bay

Menlo Park

**~ Nine feet above today's
daily high tide**

Palo Alto



Elevation

Yellow = <13'

Blue = 13-15.9'

Red = >15.9'

100-year tide (11')

+ 2' freeboard

+ 3' SLR

**At least 13' now,
Enable 16'**

SAFER Bay Project

Protect 5,000 properties & major infrastructure,
restore marshes, connect communities through trails

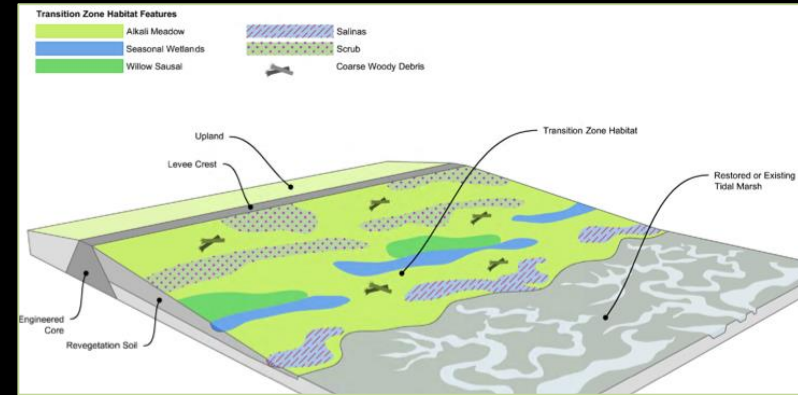
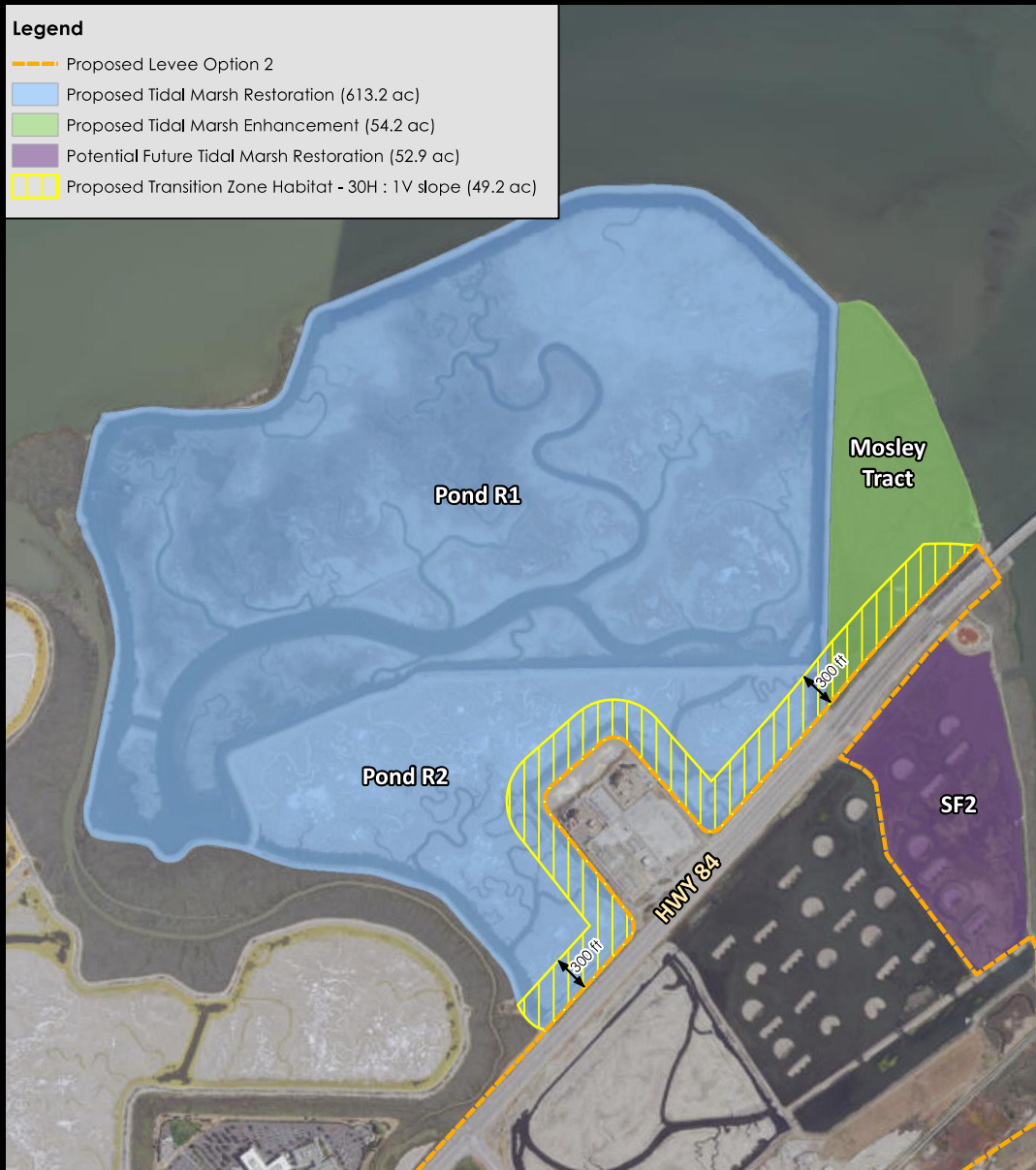
11 miles of shoreline within two counties and three cities

- Remove properties from current & future floodplain/risk
- Utilize marshes for protection in a way that sustains them
- Expand opportunities for recreation and connectivity
- Meet objectives regardless of neighboring action/inaction
- Create partnerships with protected assets



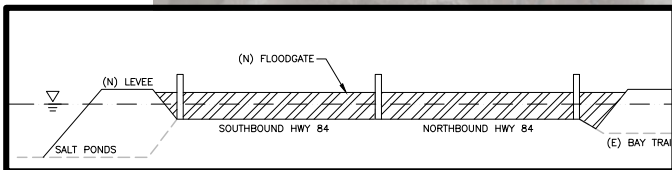
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Marsh Restoration Opportunities

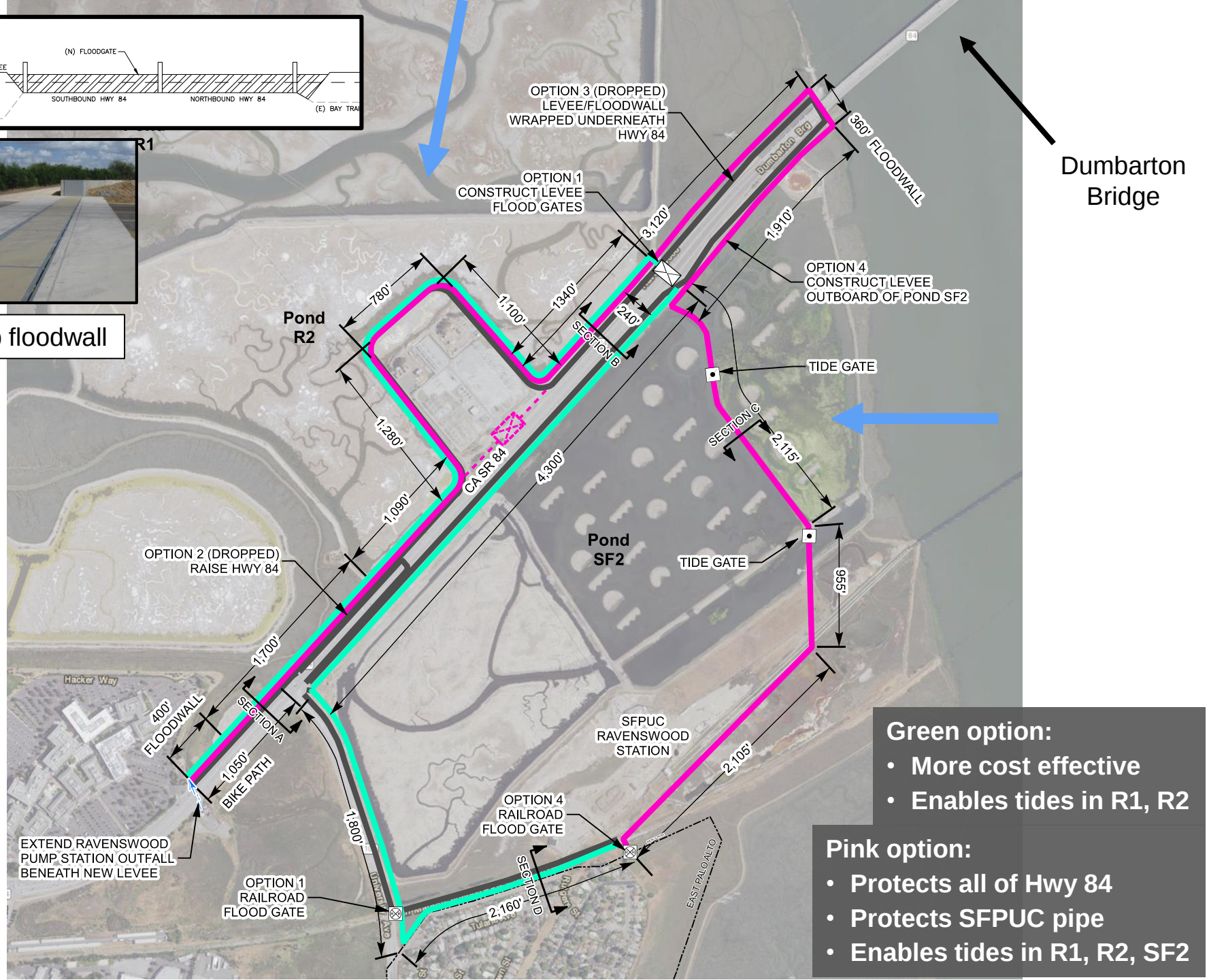


North of Hwy. 84





Pop-up floodwall



Dumbarton Bridge

- Green option:**
- More cost effective
 - Enables tides in R1, R2

- Pink option:**
- Protects all of Hwy 84
 - Protects SFPUC pipe
 - Enables tides in R1, R2, SF2



Input into SAFER's San Mateo County side project

- **City Council meetings in East Palo Alto and Menlo Park**
 - **League of Women Voters public meetings in 2015 & 2016**
 - **Salt Pond Restoration Project Management Team**
 - **BCDC Bay Fill working group**
 - **Citizen's Committee to Complete the Refuge**
 - **Amer. Water Resources Assn. & Amer. Society of Civil Engineers**
 - **Restoration Authority Board**
-
- **Meetings with regulatory agencies**
 - **Public EIR Scoping meetings**
 - **Public Draft EIR meetings**
 - **City staff review of administrative drafts**



SAFER's San Mateo County side anticipated schedule

- **2016 – Spring 2017: Engage stakeholders, public presentations**
- **May 2017: Select preferred alternative, begin EIR of alternatives and design preferred alternative**
- **2018: Public Draft of EIR released**
- **Late 2018: Complete EIR & design**
- **Early 2019: Apply for permits**
- **2019 & 2020: Secure construction & maintenance funding**



SAFER's San Mateo County side funding approach

Regional scale enhancement and protection of natural and built assets means multiple partners share in the impacts, costs and benefits.

The diversity of benefitting assets dictates the diversity of funding sources.

Planning and design funding sources (as of April 2017)

- SFCJPA (CA grants)
- Cities of East Palo Alto & Menlo Park
- Facebook, Inc.
- U.S. Fish & Wildlife Service

Potential construction funding sources

- S.F. Bay Restoration Authority
- Private sector
- State of CA
- Special tax / assessment district bond
- FAA and USFWS
- Aggregated flood insurance through the private market



Thank You

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