Menu

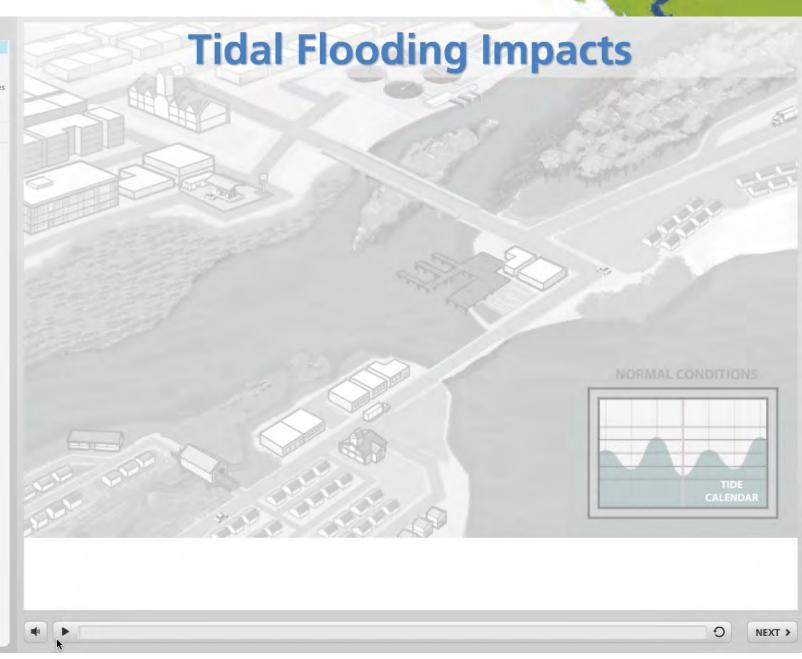
Introduction

- Part 1: Tidal Flooding Impacts
 Normal Conditions

 Formation of Extreme High Tides
 Impacts of Extreme High Tides

 Flooding and Sea Level Rise
- Part 2: How to Prepare

Resources



The Adapting to Rising Tides Program

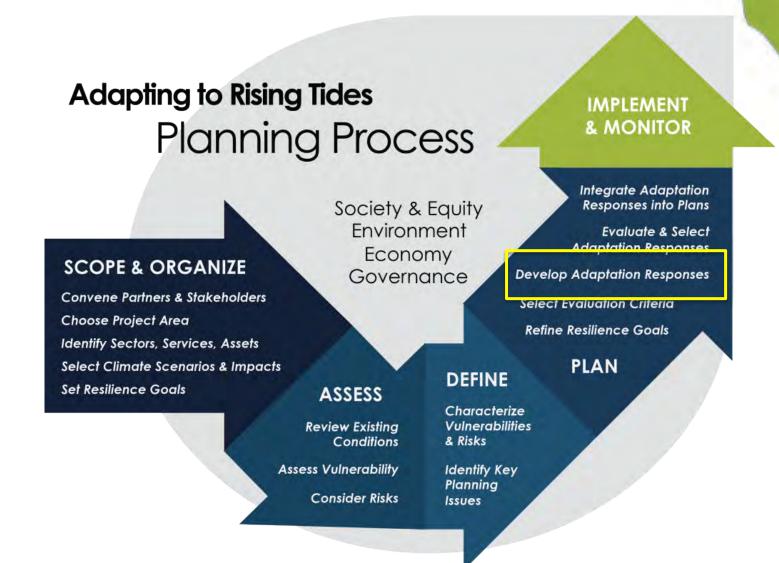
Oakland/Alameda Resilience Study



Meeting Objectives

- 1) Visit vulnerable assets in the Coliseum area and learn about their geographic and functional relationships
- 2) Explore possible adaptation actions for the Coliseum Key Planning Issue
- 3) Develop potential adaptation responses (suites of actions) for the Coliseum area

Where are we in Oakland/Alameda?



Coliseum Area Key Planning Issue

The Oakland Coliseum facilities, transportation assets, and neighborhood are vulnerable to both current and future flooding due to at-capacity flood control channels and rising Bay water levels.

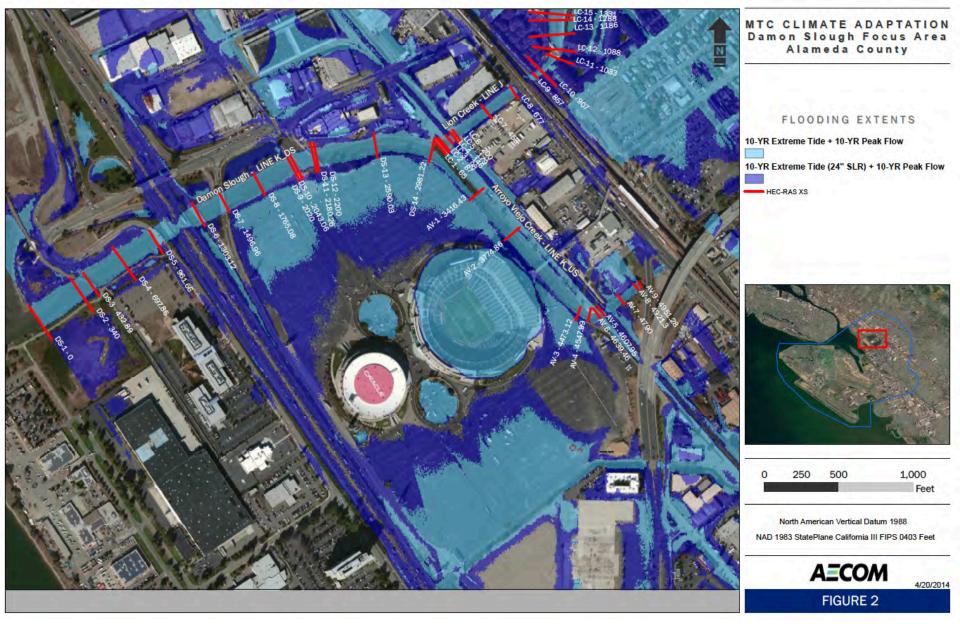


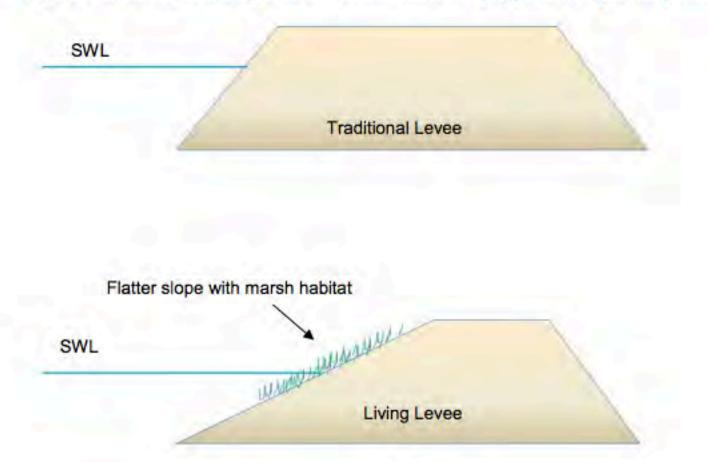
Figure 6-5: The layout and footprint of the living levee (brown) and the section where seawall might be necessary due to space limitations

Dam



Dam

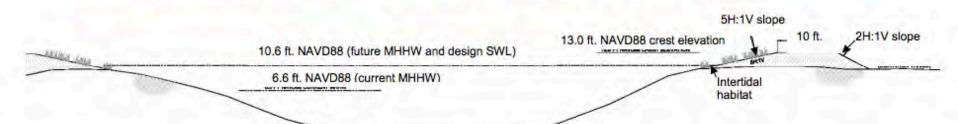
Figure 6-4: Conceptual diagrams of a traditional levee (top) and living levee (bottom)



Damon Slough Flooding



Figure 6-6: A conceptual cross-section of the Damon Slough living levee. The living levee is designed to protect against flooding and inundation associated with water levels up to 13 ft. NAVD88 and provide intertidal and upland habitat zones



Damon Slough Flooding

AECOM Western Alameda County Streams 10,000 2,500 5,000 Damon Slough Focus Area

Figure 2 - Watershed Map for Oakland Coliseum Focus Area³

Coliseum Area Specific Plan

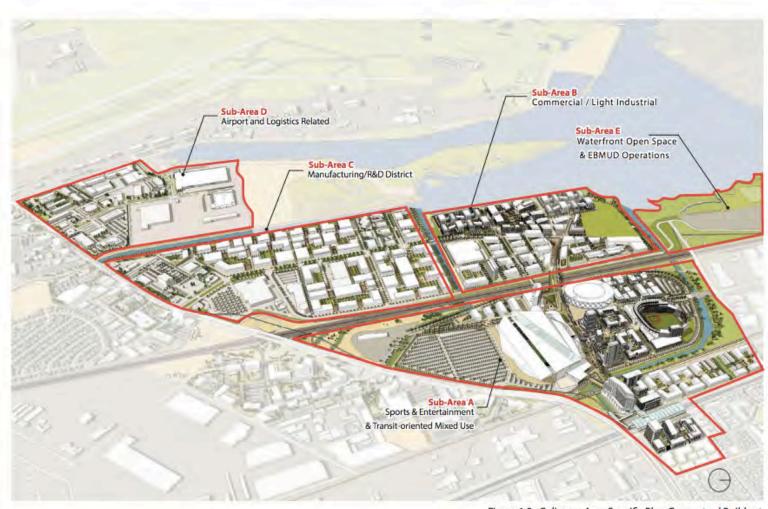


Figure 1.2: Coliseum Area Specific Plan Conceptual Buildout

Source: JRDV / City of Oakland

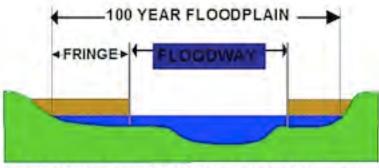
Coliseum Area Specific Plan



Figure 1.3: Conceptual Land Use Plan

Floodways

Floodway Schematic

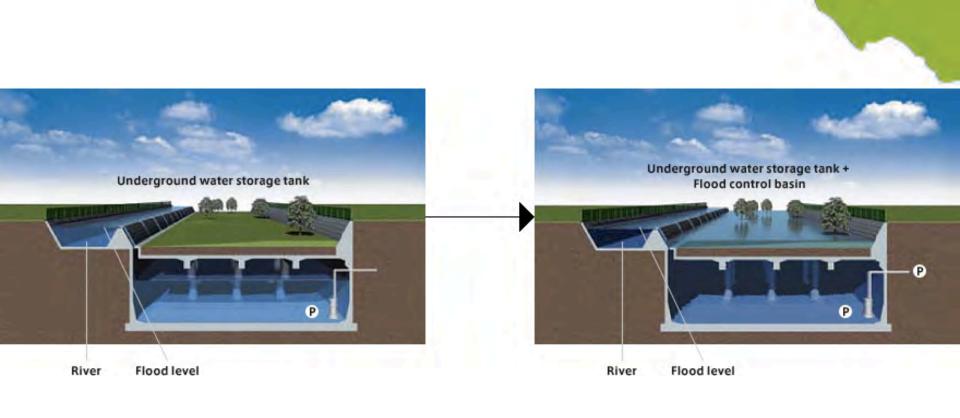


FLOODWAY + FLOODWAY FRINGE = 100 YEAR FLOODPLAIN

What would be allowed in the floodway fringe?

Ground level parking, play areas, lawn & garden areas, golf courses, tennis courts, agricultural activities and other private recreational activity that does not impact the ability of the floodway fringe to store water during a flood event.

Flood Storage



Floodable Development



Flood Storage



Figure 4. Multi-functional underground parking garage used as a reservoir for floodwaters and storm waters (Aerts et al., 2009).

Rebuild by Design



Rebuild by Design

