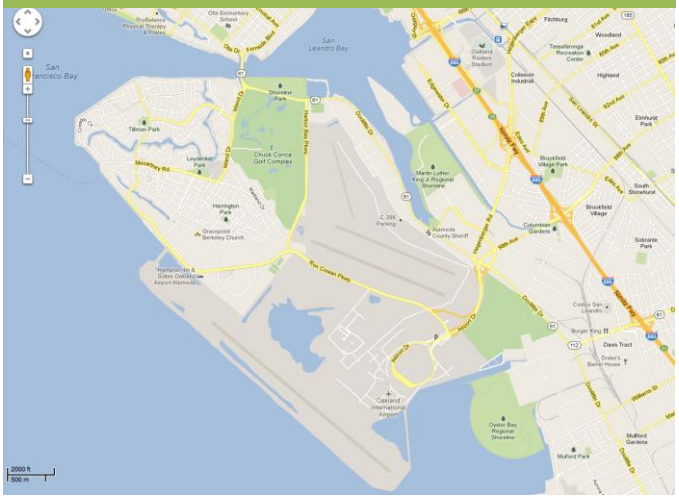
Oakland International Airport / Bay Farm Island Focus Area
Shoreline Resilience Planning Project

Association of Bay Area Governments' Earthquakes and Hazards Program
San Francisco Bay Conservation and Development Commission's Adapting to Rising Tides Project

The Oakland International Airport / Bay Farm Island Focus Area Shoreline Resilience Planning project is a collaborative effort that will consider vulnerabilities, risks, and possible mitigation strategies for hazards including earthquakes, sea level rise, and future storm flooding that could affect the people facilities, infrastructure and services (assets) of the Bay Farm Island community and the Oakland International Airport. This area (focus area) has significant infrastructure and community assets at risk due to the shoreline location, low-lying topography, and the underlying bay fill and other loose soils.

OAK and Bay Farm Island Focus Area



The Shoreline Resilience Planning project will consider risks and mitigation opportunities for multiple hazards (earthquakes, sea level rise, and flooding) in an integrated planning process. This approach will help identify efficiencies – for example, where data and information necessary to inform one hazard can be used to inform another – and will simplify and streamline the planning process for stakeholders by seeking their participation in a single project that addresses multiple hazards. This project will also provide important insights into how risk mitigation strategies for one hazard may be modified to address another, and may uncover instances where action to mitigate one hazard could exacerbate the risk from of a different hazard.

Project Goals & Objectives

- Demonstrate the benefits of shoreline resilience planning that considers multiple hazards
- Identify shared elements of earthquake risk mitigation and sea level rise adaptation planning
- Consider comprehensive risk mitigation strategies that address hazards *within* a focus area, as well as infrastructure disruptions occurring *outside of* a focus area
- Create partnerships with stakeholders and actively engage them in multiple hazard planning

The project will examine relationships between assets within the focus area to understand dependencies among them, as well as address relationships of assets with focus area assets to those outside the focus area. This analysis will take the project a step further than traditional hazard mitigation planning by considering secondary vulnerabilities and consequences caused by dependencies among assets, and by evaluating the consequences of a disruption in local infrastructure and community assets on the larger region.

Outcomes

- Six stakeholder meetings, public open house, briefings to Boards and Commissions, and two reports over a 12 month period (July 2013 to June 2014)
- Improved understanding of synergies and conflicts between earthquake risk mitigation and sea level rise adaptation
- Development and dissemination of communication materials about the project, process, lessons learned, and outcomes