

WATERFRONT RESILIENCE IN

ISLAIS CREEK & BAYVIEW



THE ISLAIS CREEK/BAYVIEW faces urgent seismic risks and increasing flood risks from sea level rise. Islais Creek was once a broad creek and marsh area that was filled for agricultural and industrial uses in the late 1800s. Filled areas, like Islais Creek, are subject to liquefaction in the event of an earthquake. As sea levels continue to rise, there will be additional flood risks near Islais Creek and along the shoreline, including to Muni and key utility infrastructure. Flooding could disrupt local commercial corridors, commutes and transit options, parks and open spaces, and emergency services, posing serious challenges to the neighborhood and the city as a whole.

THE WATERFRONT RESILIENCE PROGRAM

The Port of San Francisco and its partners are planning for the future of Islais Creek and other areas of the waterfront through the Waterfront Resilience Program. The Program will ensure the waterfront, and its important regional and citywide assets, are resilient in the face of earthquakes, flooding, sea level rise due to climate change, shoreline erosion, and other hazards. The Program's adaptive planning framework allows the Port to act now to address risks to life safety and emergency response, while planning for mid- and long-term risks. It also allows the Port to be responsive to community priorities, changes in science, and funding and partnership opportunities. The Waterfront Resilience Plan framework includes the following components:

STRENGTHEN: Immediately implement highest priority disaster response and life safety projects

ADAPT: Identify policies and projects that will result in a Port that is resilient to seismic and increasing flood risks, and responsive to changing priorities

ENVISION: Develop visions that can respond to remaining seismic risk and increasing flood risks and long-term sea level rise.





COORDINATED RESILIENCE EFFORTS

THE WATERFRONT RESILIENCE PROGRAM encompasses multiple interrelated efforts to understand the severity and progression of climate change impacts, involve the people and communities that could be potentially affected by flooding or earthquakes, and create ideas and actions to protect communities, the economy, and the environment. These efforts include the U.S. Army Corps of Engineers/Port Flood Study, the Islais Creek Adaptation Strategy, and the Southern Waterfront Seismic Vulnerability Assessment.

USACE/PORT FLOOD STUDY

THE U.S. ARMY CORPS OF ENGINEERS (USACE) and the Port have partnered to study flood risk along San Francisco's bayside shoreline. The USACE/Port Flood Study is one of several coordinated waterfront resilience activities being undertaken in partnership with federal, state, and local agencies to plan for anticipated seismic activity, flooding, and sea level rise. The approximately three- to five-year Flood Study will identify vulnerabilities and recommend strategies to reduce current and future flood risks for consideration by the Assistant Secretary of the Army and the U.S. Congress for federal investment and implementation.

FLOOD STUDY GOALS

- **Better understand current and future flood risk**
- **Identify alternatives** to reduce flood risk
- **Engage the public** to identify priorities
- **Create funding opportunities** for flood risk projects

KEY FLOOD STUDY MILESTONES TIMELINE*

FALL 2018	USACE Commences Feasibility Study
FALL/ WINTER 2018/2019	USACE and Port Determine Study Area and Scope
WINTER 2018/2019	Port and USACE Engage Key City and Resource Agency Stakeholders
WINTER 2018/2019	USACE and Port Determine Flood Measures and Alternatives to Study
2019	Port and USACE Begin Community Outreach
2021	Flood Study Concludes
2024	Federal Funding Opportunity

*Study schedule to be determined, expected to be between three to five years

ISLAIS CREEK ADAPTATION STRATEGY

THE ISLAIS CREEK ADAPTATION STRATEGY, led by San Francisco Planning, in partnership with the Port and SFMTA, is two-year community planning process to address coastal flood risk by developing actionable strategies. This two-year community planning process in the Islais Creek area will develop actionable strategies that address coastal flood risk. Building on the Resilient by Design proposal, the Strategy will develop a long-range vision for the Islais Creek shoreline, solutions for public infrastructure, and a funding and implementation strategy that increases the resilience of the community and provides improved transportation networks and new open space. The Strategy will be complete at the end of 2020 and is being funded by a Caltrans Transportation Planning grant.

SOUTHERN WATERFRONT SEISMIC VULNERABILITY ASSESSMENT

THE PORT IS LEADING an effort in the southern part of the Port's jurisdiction to assess the vulnerabilities, identify the opportunities and develop near, mid-, and long-term adaptation strategies for the area. The purpose of the assessment is to fill any gaps in the Port, City, and community understanding of the risks and opportunities. The Assessment will draw from, and integrate with, a number of existing efforts, including the Flood Study, the Embarcadero Seawall Program, the Islais Creek Adaptation Strategy, and citywide sea level rise work.



THE PORT COMMISSION'S COMMITMENT TO WATERFRONT RESILIENCE

IN RECOGNITION OF the Port's critical role in creating a sustainable waterfront, the Port Commission requires that every project address current and future flooding. Examples of recent and upcoming projects that reflect the Port's approach include:

PIER 70 will deliver up to 3,000 residential homes and nine acres of parks. The project will provide significant sea level rise protections such as elevating the site and buildings to accommodate up to 6 feet of sea level rise and designing the shoreline with terracing and natural buffers. The project will generate an estimated \$88 million to be used for Port-wide sea level rise adaptation.

THE PIERS 80-96 MARITIME ECO-INDUSTRIAL CENTER

includes Port community efforts since 2000 that have supported over \$88 million in public and private investments. Through those efforts, the Port has evolved strategies that align maritime cargo business opportunities with complementary industries that improve the environment and community character, produce local jobs, and support investments in new parks and waterfront public access.

BLUE GREENWAY is the City's project to improve the southerly portion of the 500 mile, 9-county, region-wide Bay Trail, as well as the newly established Bay Area Water Trail and associated waterfront open space system.

THE ECOCENTER AT HERON'S HEAD PARK

is an educational community center that uses sustainable on-site power, water and wastewater systems. It is owned and maintained by the Port and operated by San Francisco Rec & Park. Nearly every feature of this facility is designed to educate the public about renewable energy, pollution and greenhouse gas reduction, wastewater treatment, sustainable building materials, rainwater harvesting, and the green economy.



GET INVOLVED!

Public participation is vital for the success of the Waterfront Resilience Program. Attend a community meeting, request a presentation to your community group, visit our table at event outreach, participate in an online engagement, or join a walking tour! Stay up-to-date on the Program and the many ways to get involved at sfportresilience.com.