A PREPARED AND STRONGER COMMUNITY The San Mateo County Sea Level Rise Vulnerability Assessment

Program Overview:

The County of San Mateo launched Sea Change SMC in 2015 to facilitate coordinated countywide action on sea level rise by working with cities, state and federal agencies, special districts, businesses and community groups to build support for cross-jurisdictional collaboration.

Vulnerability Assessment Goals:

Understanding how sea level rise will affect San Mateo County is the first and most crucial step in building prepared, healthy and safe communities. The San Mateo County Sea Level Rise Vulnerability Assessment aims to do just that.



Climate Change Preparedness Action Plan:

Next steps will include continued work in partnership with cities and community stakeholders to facilitate planning and adaptation for sea level rise and other climate change impacts. The Climate Preparedness Action Plan includes three key phases:

Assess

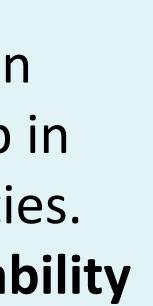
- Vulnerability of South Coast and key County Facilities
- Support cities and partners with evaluating risk
- Other climate change impacts, including heat, wildfire and precipitation

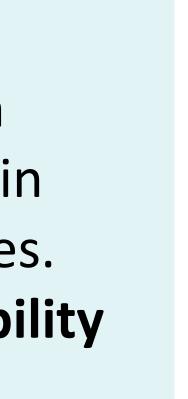
Plan

- Framework for local action on preparedness and adaptation
- Menu of adaptation strategies for at-risk areas
- Guidelines to help cities address sea level rise in existing plans and policies

What's At Risk: People and Places

Our networked infrastructure and complex grid of services mean that sea level rise affects us all. We need to protect the infrastructure and services that enable us to work, access support systems, and meaningfully engage with our neighbors and communities. Acting now will protect the livelihoods and wellness of over 100,000 people. The project area focuses on the entire eastern bayshore and along the western coast from Half Moon Bay north. See the map for examples of infrastructure and areas that we must work together to protect.





Recreational & Natural Areas

Legend

Future Erosion*

Mid-Level Scenario**

Electric Substation

not consider shoreline armoring.

Wastewater Treatment Plant

*Erosion impacts are estimated with 4.6

feet of sea level rise, but modeling does

**Estimated impacts are based on 1%

of a storm occurring in any given year,

annual chance storm or 1 in 100 chance

plus additional 3.3 feet of sea level rise.

Restore tidal wetlands and natural habitats to enhance biodiversity, flood protection and recreational access

Closed Landfills & Solid Waste Facilities

Prevent water quality impacts by protecting facilities from flooding to ensure public health and safety

Community Services & Critical Facilities



Enhance shoreline protection structures and restore natural areas to protect homes, schools, businesses and community facilities

Implement

- Update plans and policies to address sea level rise
- Prioritize adaptation strategies and develop project concepts and funding plans
- Youth and public engagement programs

Assessment Key Findings Point to the Need For:





• Near- and long-term actions to protect the county's networked infrastructure;

Actions at multiple geographic scales focused on emergency preparedness, policy, plan and procedure updates, and shoreline and site-specific protection measures;

Strategies to support residents' mental and physical health when sea levels rise and prevent post-flood health hazards and social and economic disruption;

• Coordinated and collaborative action across multiple jurisdictions.



Transportation Systems Keep the public transportation and road systems we all depend on for work, school and life – like Caltrain, BART, Highway 101, CA 92 and CA 1 – up and running Wastewater & Stormwater Systems Elevate wastewater treatment plants and use natural water management approaches to ensure functionality during flooding events and prevent illnesses from sewage backups and overflows **Flood Protection Infrastructure** Build and enhance levees, seawalls, marshes and berms to reduce flooding, expand recreation and protect neighborhoods **Energy Infrastructure** Ensure function of electrical substations 赉 to continue powering our homes, dayto-day operations and economic activities across the community **Foster City** Dumbarton Bridge Airport San Carlos North Cooley Landing Fair Oaks **Redwood City** East Palo Alto Menlo Park 84 Atherton