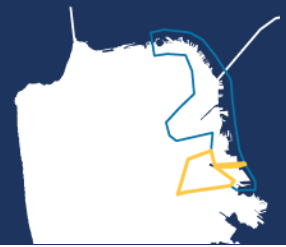


Islais Creek



SHORELINE TYPE:	SEISMIC RISK ¹ :	FLOOD RISK ² :	
Engineered & Partially Armored: Filled lands retained by concrete wall and pile supported wharf mixed with partially armored shoreline along the creek banks.	Shoreline Instability: Not Assessed - likely Moderate to High	Tipping Point Elevation:	34" above high tide
	Liquefaction Risk: Not Assessed - likely Moderate to High	Coastal Flood Events	Timing
	Shoreline Structure Vulnerability: Not Assessed - potentially High due to age of structures		
Subsurface Profile: NOT ASSESSED - likely non-engineered fill, varying depth of bay mud and rock over large geography	Unique Conditions: Channelized creek and non-engineered fill	100-yr Flood + 11" SLR	Today
		High tide + 52" SLR	2063 - 2090

SUBAREA DESCRIPTION



Islais Creek is an industrialized area that covers a large portion of the neighborhoods that surround Islais Creek and Islais Creek Channel. It includes the Southeast Wastewater Treatment Plant, San Francisco's largest wastewater treatment facility, processing more than 80 percent of the city's total annual wastewater flow and serving about two-thirds of San Francisco's residents. The Islais Creek channel is part of the Port's Maritime Eco-Industrial Strategy, an area dedicated to combining maritime industry with green design and green technology.

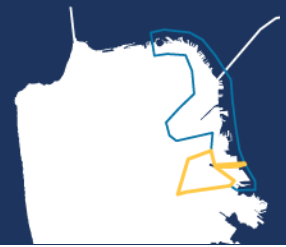
Within the Islais Creek inlet, the shoreline is primarily engineered. However, small strips of natural shoreline are located between the

¹ Evaluation of seismic risk in areas outside of the Embarcadero Seawall Program are based on engineering judgement and will be updated once the Southern Waterfront Seismic Vulnerability Assessment is complete in Spring 2021.

² The timing of coastal flood events that will cause significant flooding in this subarea is provided as a range of dates based on the sea level rise projection scenarios provided by the California Ocean Protection Council (OPC) per the Likely and 1-in-200 chance of occurrence projections.

Islais Creek

Subarea 4-2



inlet and the inland developed areas and many aquatic species can be viewed within the creek itself. Some of these areas are designated as parks with public shoreline access. The creek is crossed by two bridges.

The primary pathways of flooding are from overtopping of the northern and southern shoreline of Islais Creek, and from the adjacent subareas (Subareas 4-1, 4-3, and 4-4). To address flooding into Subarea 4-2, flood risk reduction strategies are also required for the adjacent subareas.

COMMUNITY IDENTIFIED PRIORITIES:	
<p>Places</p> <ul style="list-style-type: none"> • Third Street Bridge • San Francisco City College • SFMTA Facilities • Sewage Treatment Plant • Southeast Community Facility • Hunter's Point Community Youth Park • Bayview Opera House • Radio Africa and Kitchen • Islais Creek Dragon Boat Training Center & Kayaks Unlimited • Fire Station 49 • Churches (St. John Missionary Baptist Church, Bayview Baptist Church, Providence Baptist Church) • Islais Creek Park 	<p>Since 2017, the Port has connected with tens of thousands of community members through the Waterfront Resilience Program. Public feedback collected about Islais Creek underscores the importance of maintaining the maritime industry, adapting Port and City-owned infrastructure, making affordable housing available in the surrounding community, addressing displacement, and getting people where they need to go through different transportation options.</p> <p>Additional community features highlighted in feedback included appreciation for the neighborhood's diversity and culture, improvement of availability of food options, and the importance of schools, community-based organizations, and family-oriented amenities. Further feedback highlights additional community priorities, including opportunities to protect the community and address pollution, restore wildlife habitat, protect public access to the Bay Trail, and plan for emergency response.</p>

Islais Creek

Subarea 4-2



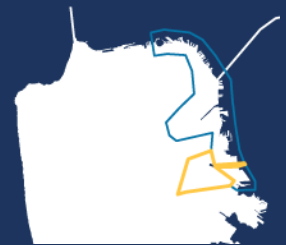
FIRST FLOODING OF ASSETS

The chart below describes the vulnerability of specific assets within the Islais Creek subarea to flooding. These assets will be exposed to coastal flooding when the water level in the Bay reaches a certain height above the current high tide. The heights at which each asset is exposed to flooding is indicated with the shaded cells in the table. Over time and due to sea level rise these water levels can occur due to large storm events such as a 100 year flood of daily high tides. For example, the Marin Yard is exposed to flooding when the water rises 52 inches above current high tide, which could occur due to a 100 year flood with 3 ft. of sea level rise or as during daily high tide with 5.5 ft. of sea level rise.

● High Tide ○ 100 Year Flood ■ Shaded cells indicate the water levels at which assets are exposed to flood

SEA LEVEL RISE		WATER LEVEL ABOVE CURRENT HIGH TIDE										
		0"	12"	24"	36"	48"	52"	66"	77"	84"	96"	108"
Today		●				○						
1 ft. SLR			●				○					
3 ft. SLR					●				○			
5.5 ft. SLR								●				○
Historic and Cultural												
	Bayview Opera House											>
	City College of SF											>
Disaster Response												
	Fire Station 49											>
	Fire Station 9								■	■	■	■
Open Space and Ecology												
	Bay Trail						■	■	■	■	■	■
	Bay Water Trail Islais Creek Launch								■	■	■	■
	Hunters Point Community Youth Park											>
	MTA Promenade						■	■	■	■	■	■
	Youngblood-Coleman Playground											>
Maritime												
	Islais Creek Dragon Boat Training Center						■	■	■	■	■	■
	Islais Channel Marina						■	■	■	■	■	■

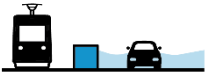



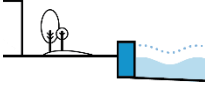





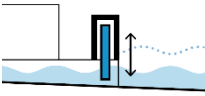

Islais Creek



Transportation											
	Burke Warehouse										
	Illinois Street Bridge										
	Islais Creek Division										
	Marin Yard										
	Muni Light Rail (T)										
	SF Bay Railroad										
	Third Street										
	Third Street Bridge										
	Union Pacific Railroad										
Utilities											
	Bayshore PG&E Substation										>
	Bruce Flynn Substation										
	Davidson Pump Station										
	Islais Creek Transport / Storage Box	N/A (Buried assets are not directly impacted by flooding)									
	Rankin Pump Station										
	Southeast Lift Station										
	Southeast Wastewater Treatment Plant										
Critical Facilities											
	A. Philip Randolph Institute										>
	Dr. Martin Luther King Junior Center										>
	Children's Advocacy Center										
	Family & Children's Community Services										
	Thurgood Marshall High School										>



FUTURE POTENTIAL MEASURES UNDER CONSIDERATION IN THIS SUBAREA:

FLOOD MEASURES:			
Physical Infrastructure		Ecological Infrastructure	
 Floodwalls	 Levees	 Ecological Marine Structures	 Ecological Features
 Seawalls	 Breakwaters	 Aquatic Habitat	 Ecological Shorelines
 Raised Marine Structures	 Building Adaptations		
 Tide Gates	 Deployables		

SEISMIC MEASURES:

Southern Waterfront Seismic Vulnerability Assessment

Further information about the potential seismic hazards and vulnerability of Islais Creek will be included in the Southern Waterfront Seismic Vulnerability Assessment. This assessment will not be at the same level as the recently completed Multi-Hazard Risk Assessment (MHRA) under the Embarcadero Seawall Program. It will be used as part of the Port’s work to better understand the waterfront risks of the entire 7.5 miles in its jurisdiction.

FLOOD AND SEISMIC MEASURES:

Policy and Emergency Preparedness

 Policies and Zoning	 Emergency Preparedness		
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