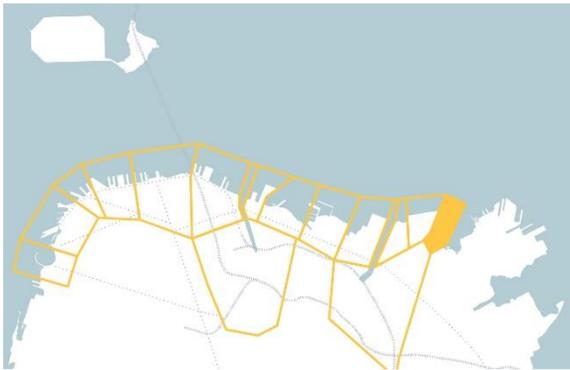


Heron's Head



SHORELINE TYPE:	SEISMIC RISK ¹ :	FLOOD RISK ² :	
Beach, Armored & Marsh: Filled lands forming peninsula with protected slopes on one side and natural shoreline slope supporting tidal habitat on the other	Shoreline Instability: Not Assessed	Tipping Point Elevation: 38" above high tide	Timing
	Liquefaction Risk: Not Assessed		
	Shoreline Structure Vulnerability: Not Assessed	Coastal Flood Events	
Subsurface Profile: Not Assessed - likely non-engineered fill originally classified as debris dike	Unique Conditions: Restored tidal wetland area, with no structures present	100-yr Flood	Today
		High tide + 36" SLR	2068 - 2101

SUBAREA DESCRIPTION



The Heron's Head subarea primarily consists of the 21-acre Heron's Head Park, originally constructed as part of never-completed construction of a new cargo terminal, "Pier 98," and officially zoned as an industrial area. It is now home to native plants and more than 100 bird species and one of the few wetlands on San Francisco's shoreline. The EcoCenter at Heron's Head Park is the first LEED Platinum - Zero Net Energy Building in San Francisco, using sustainable on-site power, and wastewater systems. The educational community center at the EcoCenter as well as the park walking paths, bird watching, and ecosystem restoration activities are part of a commitment to create a sustainable waterfront for generations to come.

This shoreline within this subarea is primarily an embankment that is fronted by marsh or varying degrees of rock protection.

The primary pathways of flooding are from overtopping over broad stretches of mostly natural shoreline along the northern edge of Heron's Head Park and along the India Basin Shoreline to the south of this subarea. The wetland area at Heron's Head Park and the India Basin Shoreline already experience regular inundation during high tides today.

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.

Heron's Head



COMMUNITY IDENTIFIED PRIORITIES:	
Places	Since 2017, the Port has connected with tens of thousands of community members through the Waterfront Resilience Program. Public feedback collected about Heron's Head underscores the importance of providing affordable housing in the surrounding community, providing educational and engaging community spaces near the shoreline and neighborhoods, maintaining and enhancing waterfront access and neighborhood recreation, and protecting the shoreline and habitat from rising seas. Further feedback highlights additional community priorities, including opportunities to enhance green space and increase educational and family-friendly activities.
<ul style="list-style-type: none">• Heron's Head Park• EcoCenter• India Basin	

Heron's Head



FIRST FLOODING OF ASSETS

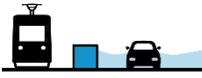
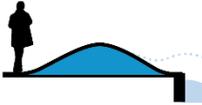
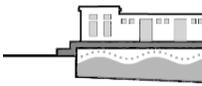
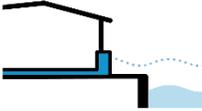
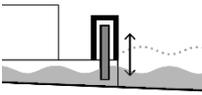
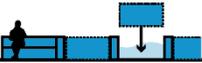
The chart below describes the vulnerability of specific assets within the Heron's Head subarea to flooding. These assets will be exposed to coastal flooding when the water level in the Bay reaches a certain height above the current high tide. The heights at which each asset is exposed to flooding is 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 India Basin Shoreline is exposed to flooding when the water rises 12 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								●				○
Open Space and Ecology												
	Bay Trail			■	■	■	■	■	■	■	■	■
	EcoCenter									■	■	■
	Heron's Head Park	■	■	■	■	■	■	■	■	■	■	■
Transportation												
	Muni Station											>
	-	-										
Utilities												
	Hunters Point PG&E Substation									■	■	■
	-	-										



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		

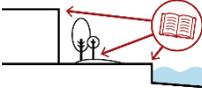
SEISMIC MEASURES:

Southern Waterfront Seismic Vulnerability Assessment

Further information about the potential seismic hazards and vulnerability of Heron's Head 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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