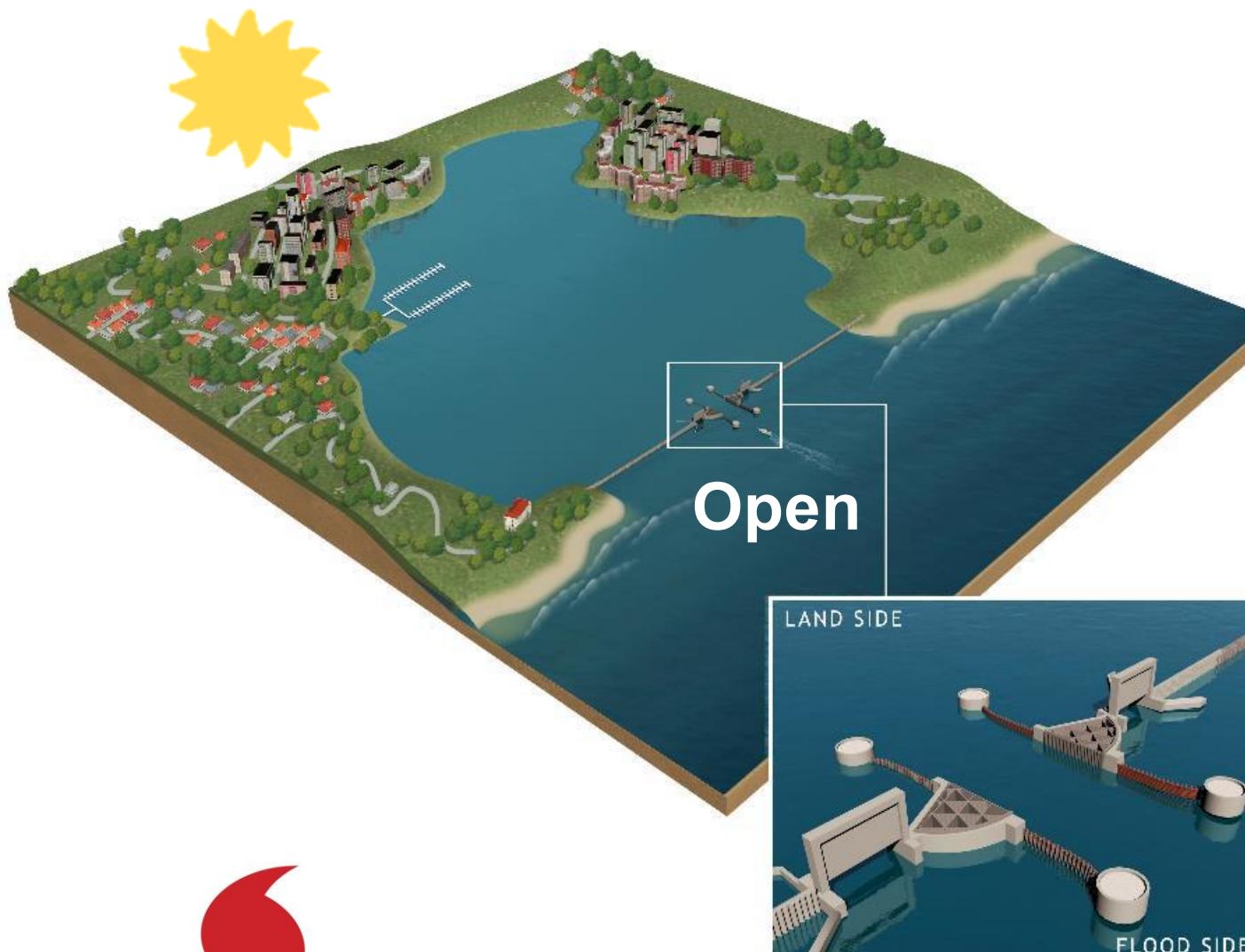


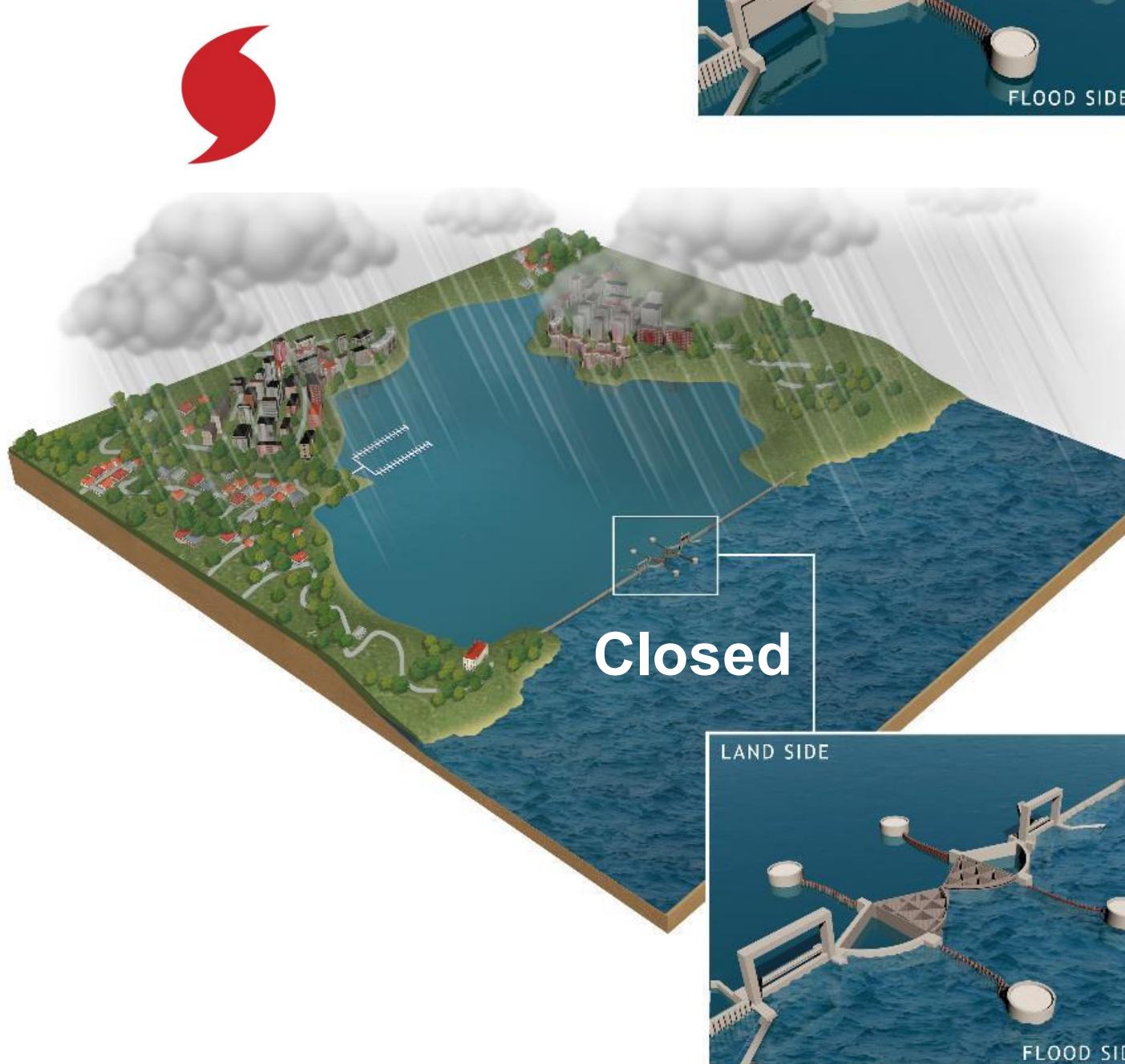
★ CITY OF VIRGINIA BEACH ★

# COASTAL STORM RISK MANAGEMENT FEASIBILITY STUDY

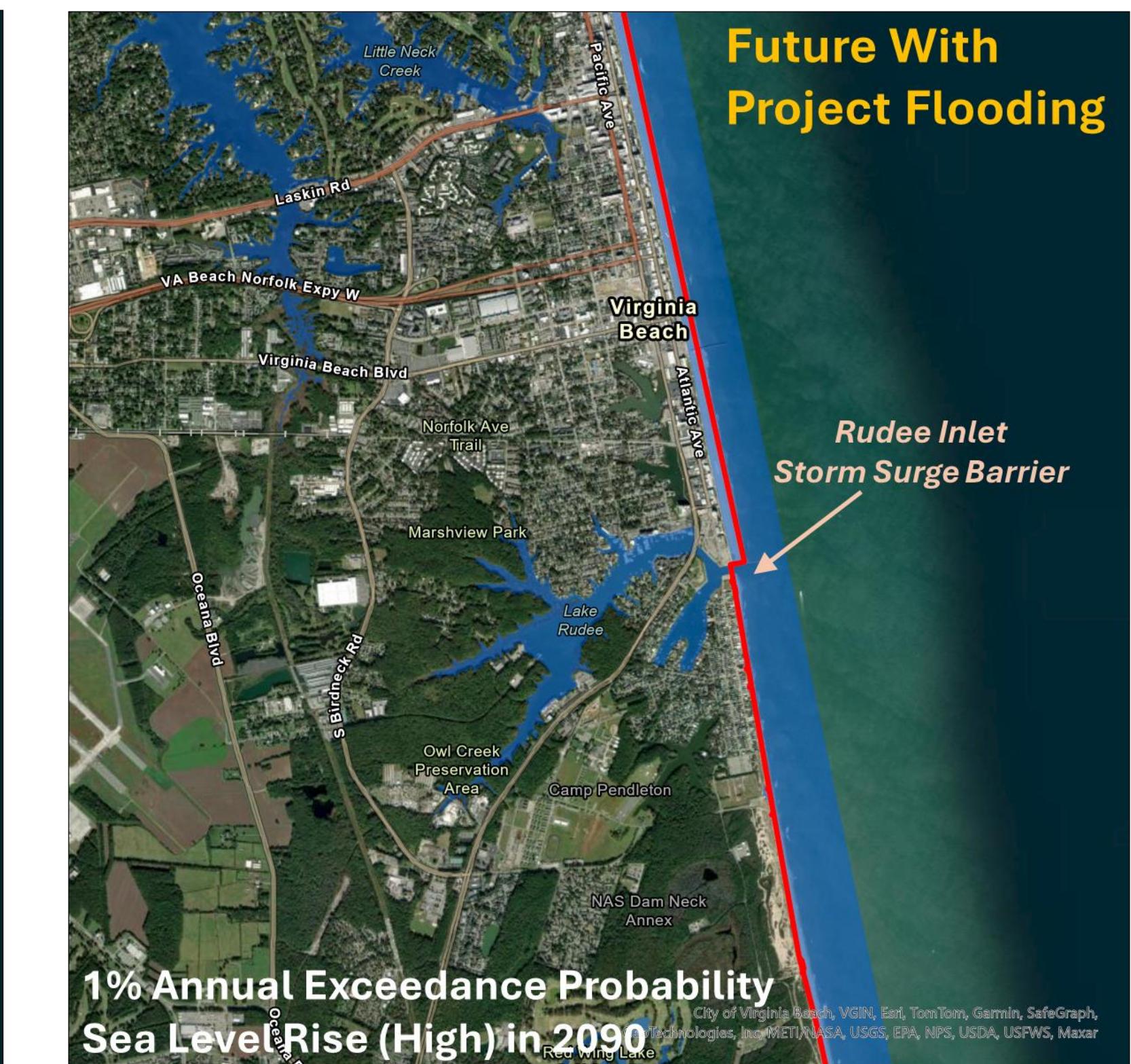
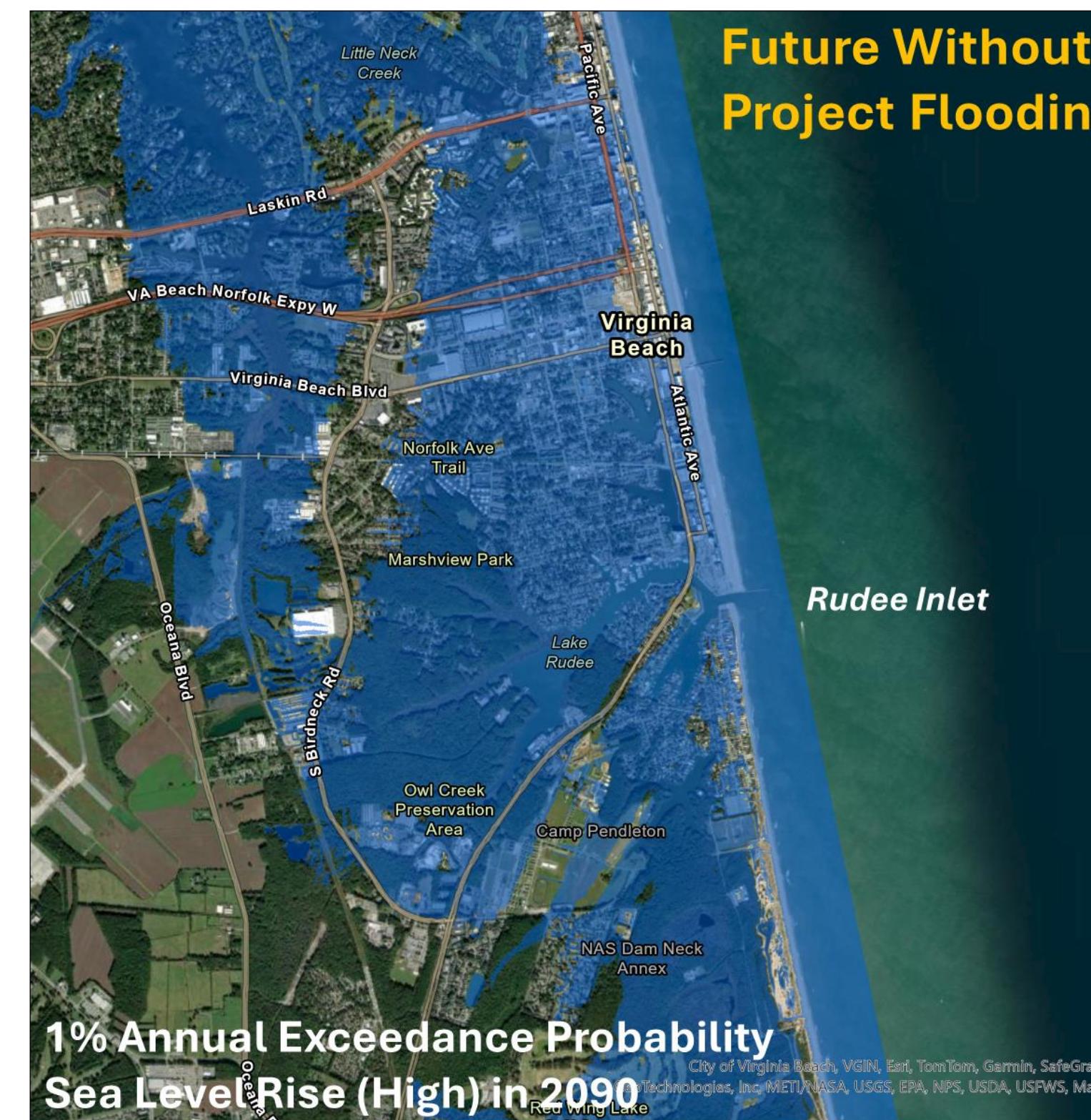
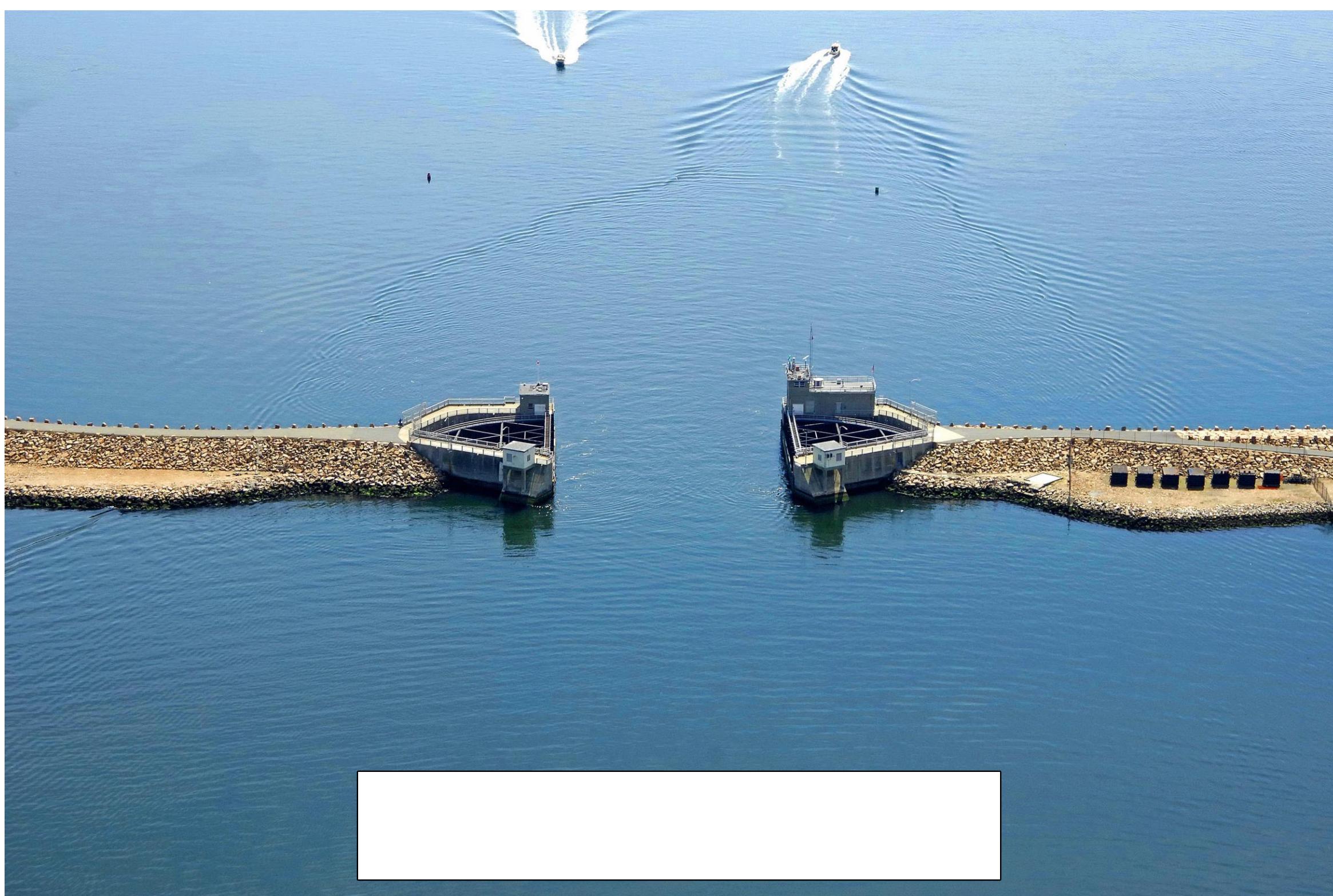
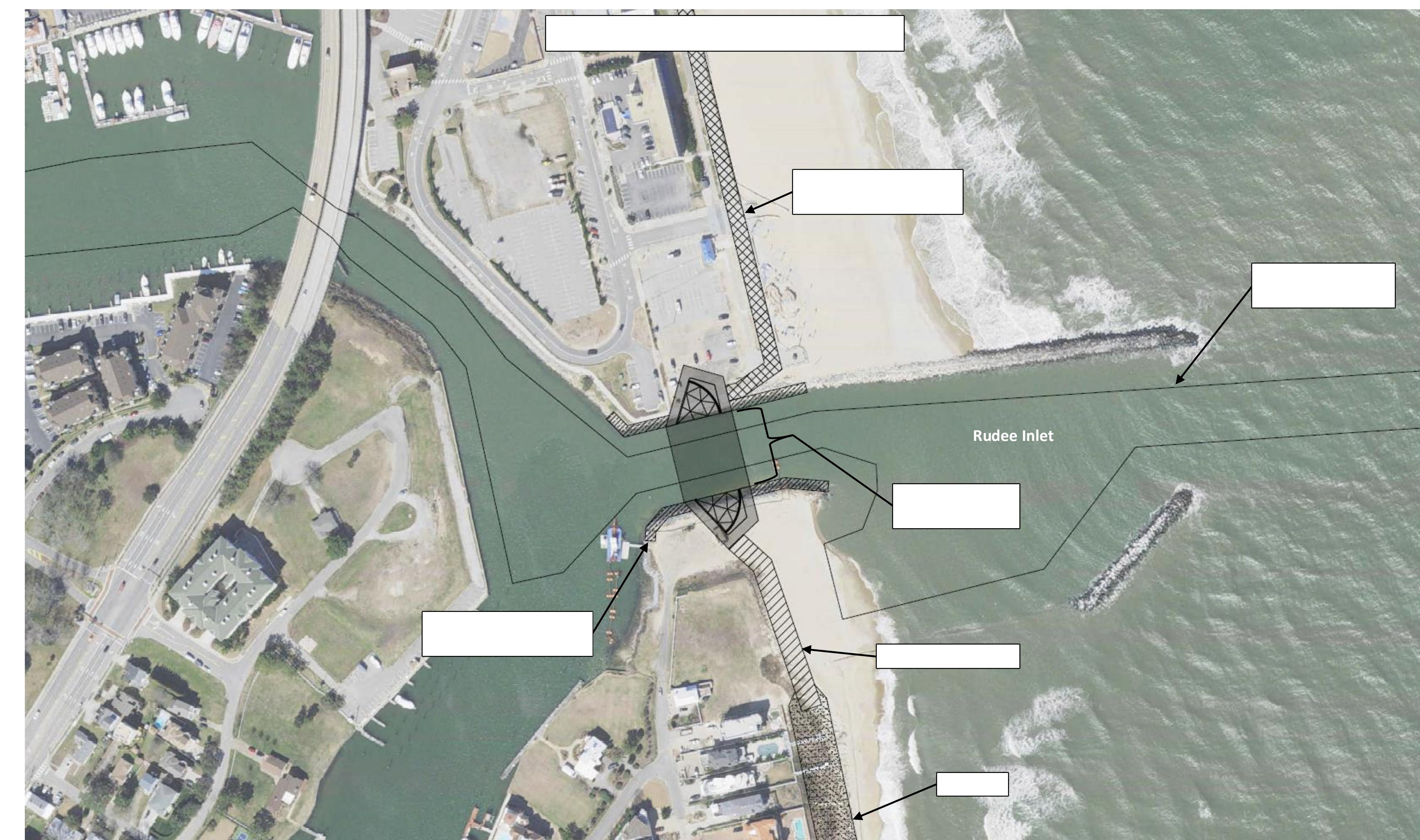
**Storm surge barriers** reduce risk to people, structures and infrastructure located in the back bay and estuarine environment against flooding caused by storm surge and waves



**Storm surge barriers** consist of a series of movable gates that stay open under normal conditions to let navigation and flow pass but are closed when storm surges are forecasted to exceed a specific water level.



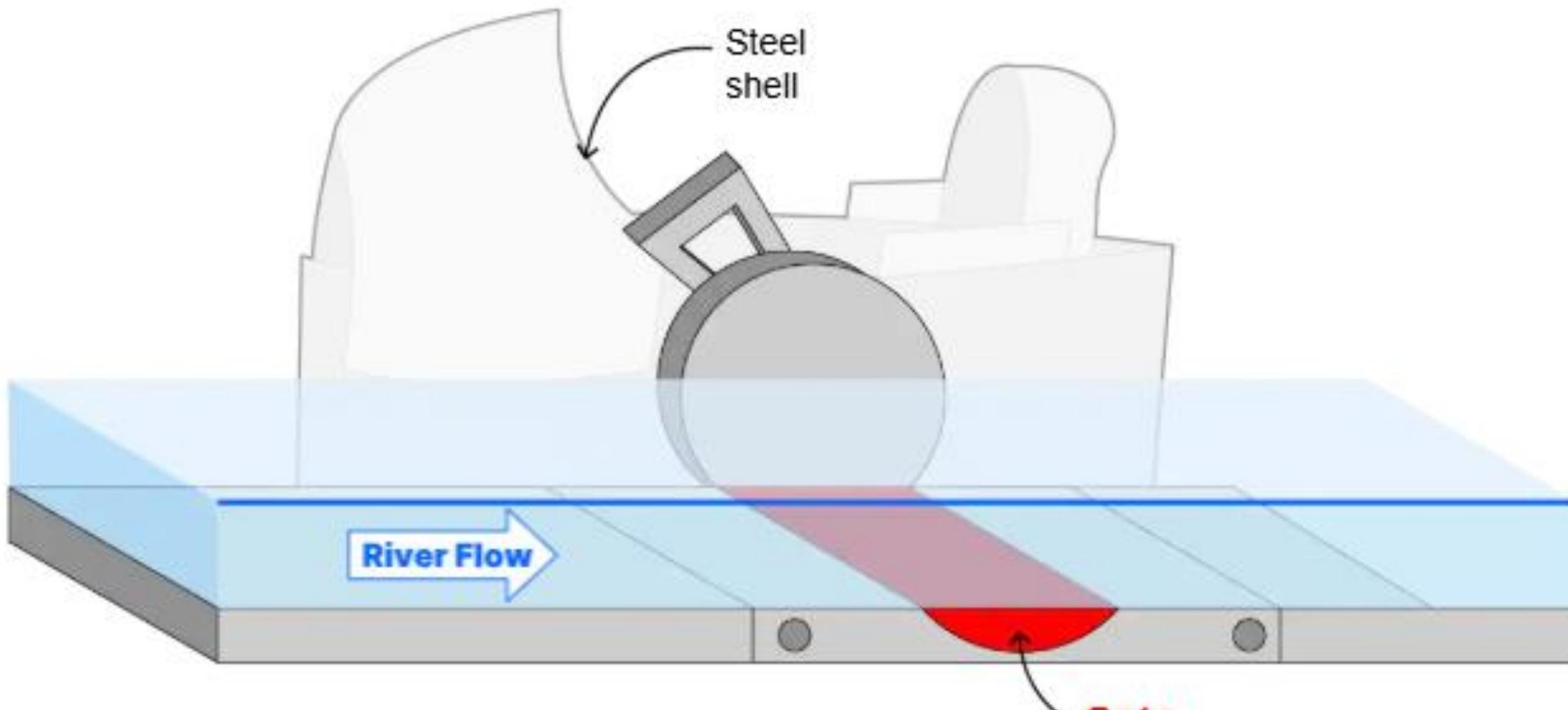
**Storm surge barriers** may have environmental impacts under normal conditions associated with reductions in water exchange between the ocean and bay/estuarine environment.



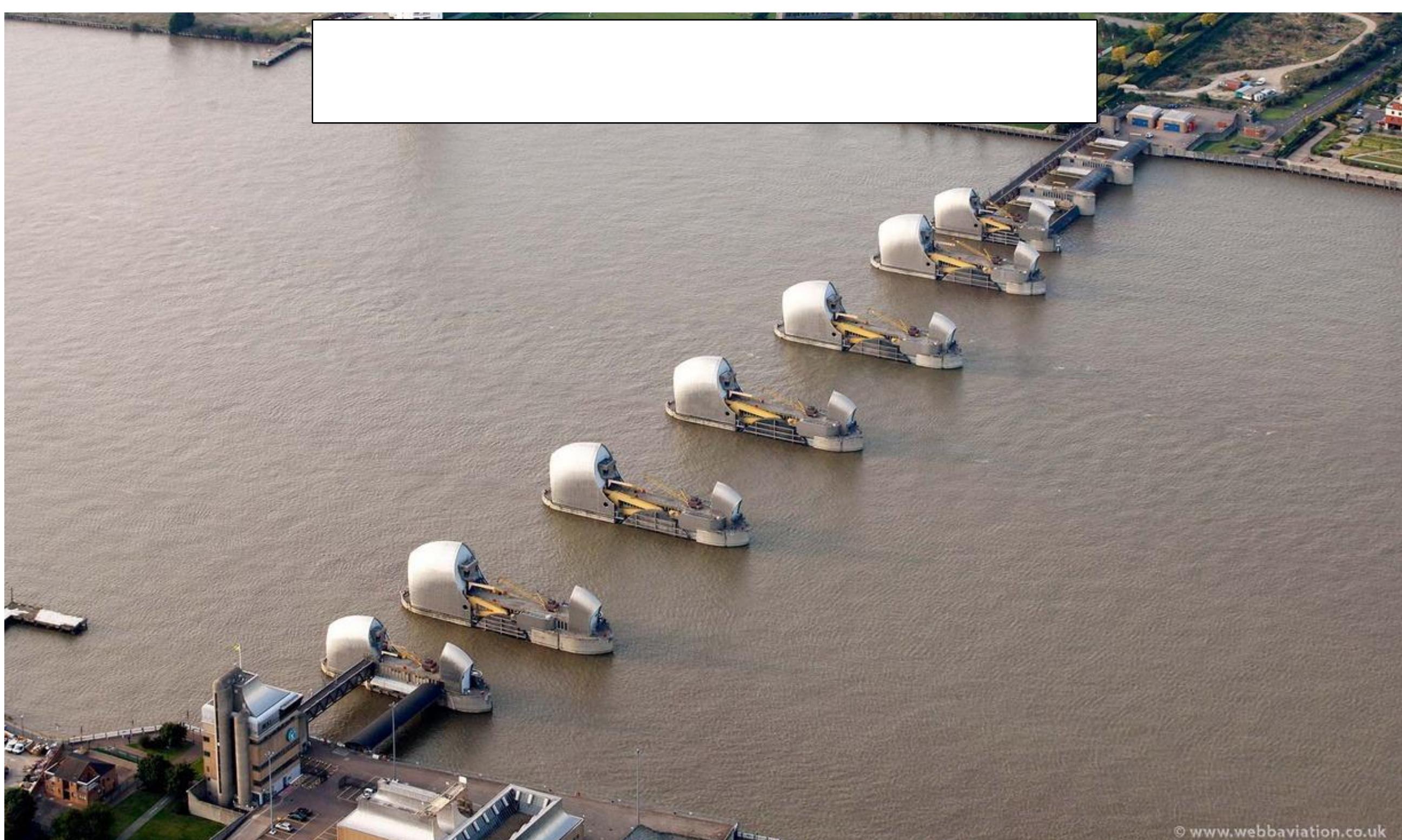
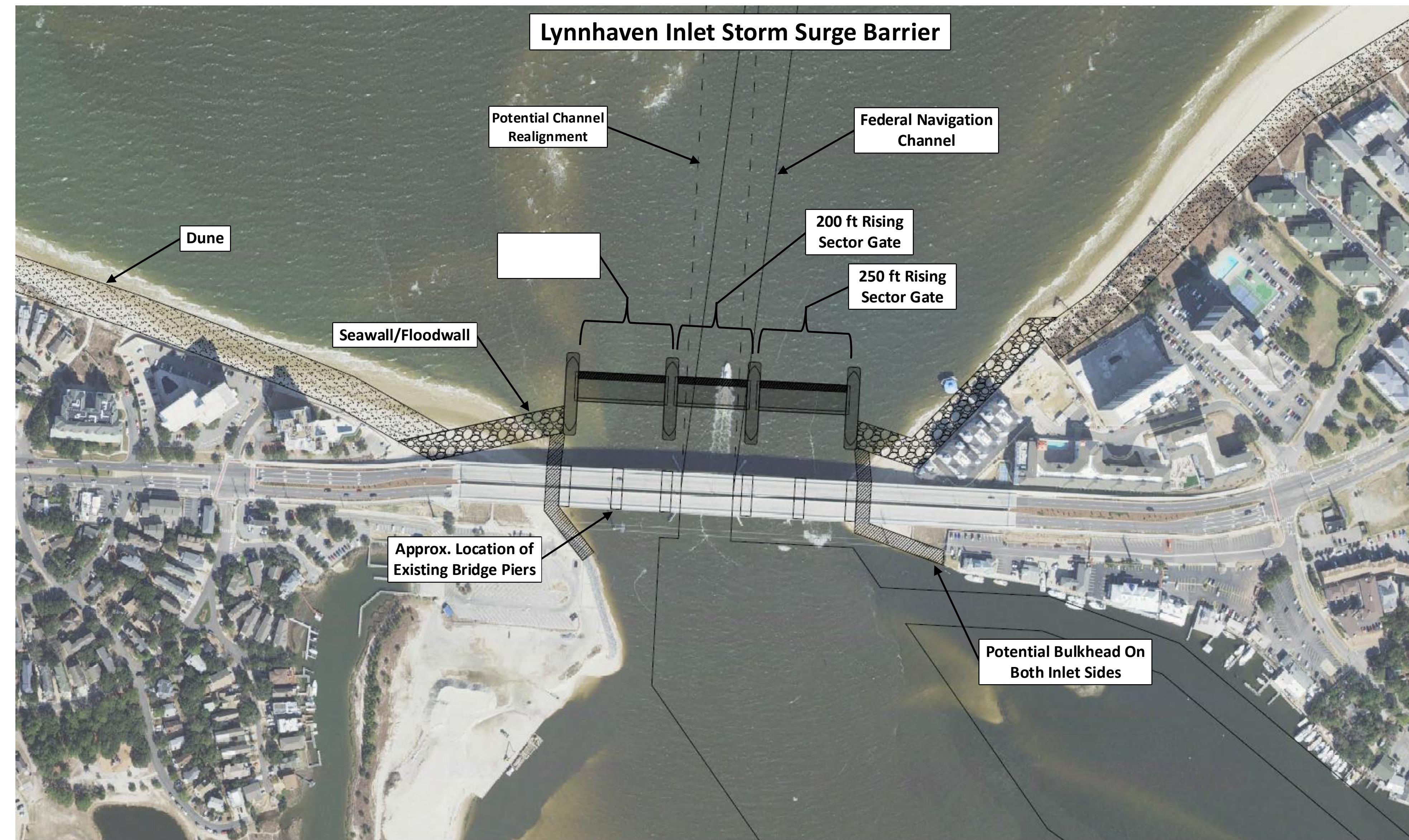
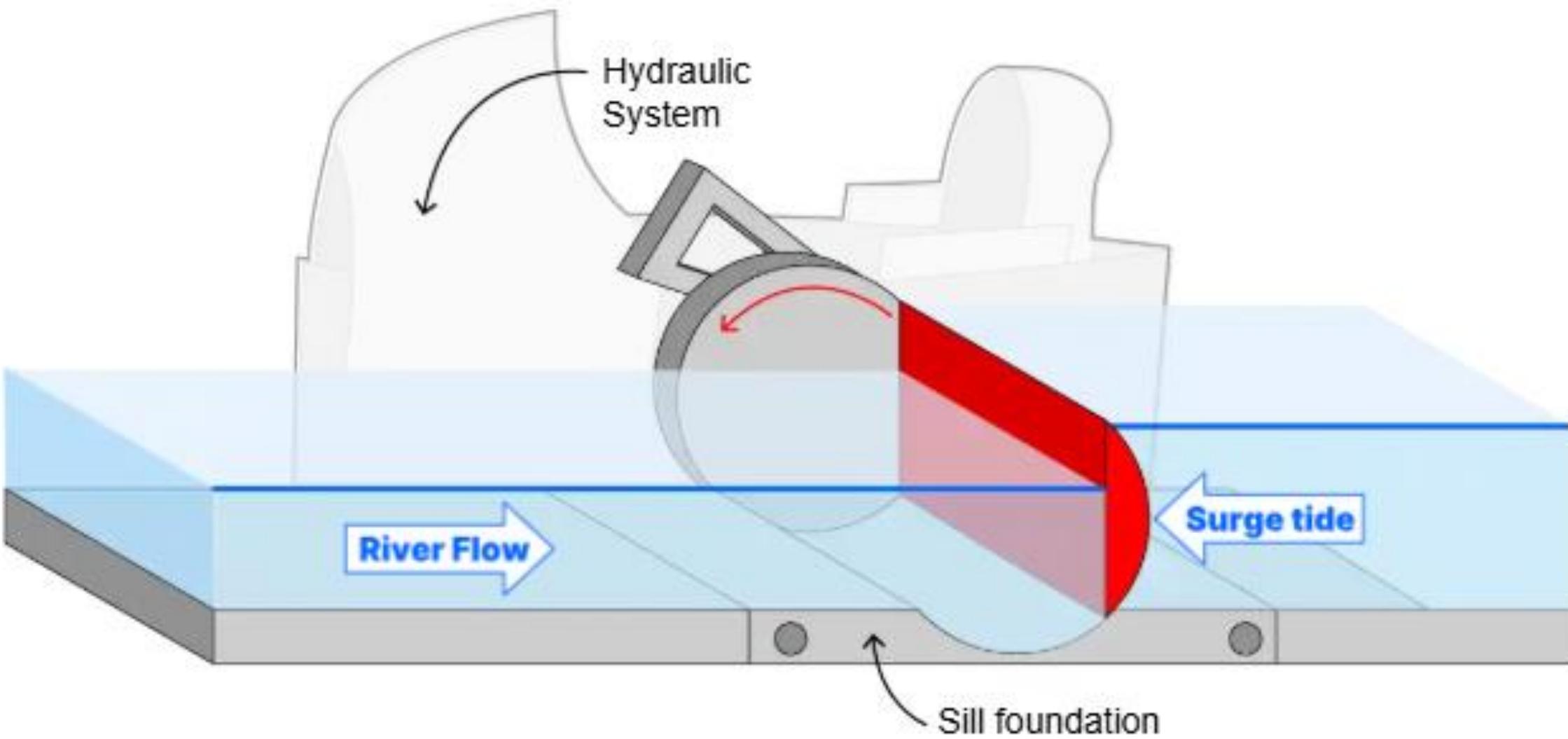
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# COASTAL STORM RISK MANAGEMENT FEASIBILITY STUDY

# Rising Sector Gate Open Position



# Rising Sector Gate Closed Position



# Future Without Project Flooding

**Future With Project Flooding**

**Lynnhaven Inlet Storm Surge Barrier**

**Rudee Inlet Storm Surge Barrier**

**1% Annual Exceedance Probability Sea Level Rise (High) in 2090**

Joint Expeditionary Base - Fort Story

First Landing State Park

Linkhorn Bay

Laskin Rd

Virginia Beach

Lake Rudee

Naval Air Station Oceana

Camp Pendleton

Joint Expeditionary Base - Fort Story

Shore Dr

Virginia Beach Blvd

VA Beach Norfolk Expy W

13

60

225

279

408

410

414

419

149

City of Virginia Beach, VGIN, Esri, TomTom, Garmin, SafeGraph, GeoTechnologies, Inc, METI/NASA, USGS, EPA, NPS, USDA, USFWS, Maxar



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**COASTAL STORM RISK MANAGEMENT FEASIBILITY STUDY**

