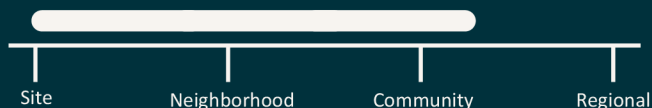


Location

Stone Wharf Landing, Chebeague Island

SCALE



Aerial image of Stone Wharf and access to island via Stone Wharf Road

DESCRIPTION:

Stone Wharf Landing is located on the northwest shore of Chebeague Island. For 130 years, the granite block wharf has been a multi-use municipal waterfront serving residents, commercial fishermen, passenger ferries, water taxis, and island visitors. Various modifications have been made to the pier structure and use since the original construction, with additions of wave breaks, grouting, and replacement of infill.

TRAVEL CORRIDORS & INFRASTRUCTURE:

The wharf landing, one of the main access points to and from the island, is within the FEMA floodplain and vulnerable to flooding from 1.5 feet of sea level rise.

SOCIAL DEMOGRAPHIC

Based on the Maine Social Vulnerability Index, certain populations that reside on the island are particularly vulnerable to climate change. 48% of the population is 65 years or older and 29% are civilians with a disability.

ECONOMY:

The wharf provides critical shore access for traditional uses by local fisherman, recreation & tourism. Disruption of this access could strain these industries. Additionally, the coastal hazards associated with sea level rise could impact businesses located on Stone Wharf Road.

COASTAL HAZARDS



Storm Surge



Sea Level Rise

VULNERABILITIES



Working Waterfront



Travel Corridors



Coastal Infrastructure



Social Demographic

STRATEGY TYPE



Policy/Program



Nature-based



Hardscape

WHY IS THIS A PRIORITY SITE?

Coleman Cove was selected as a priority site because it is a critical economic resource as a working waterfront and one of the main public access points for the island. The Town of Chebeague has completed various assessments to evaluate structure stability and future use and assess the impact of Sea Level Rise on the wharf. Based on the analysis, in 50 years (2070) the wharf could experience overtopping of 3.7 feet that would render the facility unusable and unsafe on a frequent basis.

STRATEGIES:

- Modular-docking and elevated decking systems for continued access to fishing, recreation, & transportation.
- Continued conservation of open space.
- Implementation of shoreland zoning ordinance that increases buffer setbacks for future development.

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