

SHORELINE RESTORATION PLAN



City of Bainbridge Island



Prepared for
City of Bainbridge Island
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City of Bainbridge Island

Prepared for
City of Bainbridge Island
Planning & Community Development
280 Madison Avenue North
Bainbridge Island, Washington 98110-1812

Prepared by
Herrera Environmental Consultants, Inc.
2200 Sixth Avenue, Suite 1100
Seattle, Washington 98121
Telephone: 206.441.9080

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- Fay Bainbridge Park Lagoon Restoration
- Fay Bainbridge Park Revegetation & Nonnative Invasive Plant Removal
- Fort Ward Park Revegetation & Nonnative Invasive Plant Removal
- Gazzam Beach Restoration
- Hidden Cove Park Shoreline Restoration
- Manitou Beach Salt Marsh Restoration
- Milwaukee Dock Eelgrass Planting
- Murden Cove Riparian Corridor
- Point Monroe Lagoon Stormwater Outfall Replacement
- Port Madison Revegetation
- Port Madison Shoreline Restoration
- Pritchard Park West Riprap Removal
- Restoration Point Kelp Planting
- Rolling Bay Walk Acquisition and Demolition
- Schel-Chelb Estuary Expansion
- Schel-Chelb Estuary Hydrology Restoration
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EXECUTIVE SUMMARY

This restoration plan serves as a science-based guide for the City of Bainbridge Island to achieve island-wide improvements in ecological functions of degraded shoreline areas as required by WAC 173-26-201(2)(f). This plan describes opportunities for restoration covering all of Bainbridge Island.

The plan identifies existing, site-specific, restoration activities discussed previously in the public record, some of which are in various stages of implementation, as well as several proposed opportunities that specifically address ecological deficiencies identified in the 2011 Addendum to the Summary of Science (Herrera 2011). Those proposed opportunities are all located on public land.

The proposed, site-specific, restoration actions are grouped by management area, an established delineation set forth in the island's original shoreline characterization work completed by Williams et al. (2004). This plan describes, in general, the types of projects to be implemented within each management area to improve the City's shoreline ecological functions.

This plan also includes recommendations for land conservation through fee acquisitions or easements, property owner education programs, and programmatic activities that support shoreline restoration, such as mitigation banking and derelict pile removal programs. Although not discrete restoration projects, such strategies are included in this plan because, as most of the shoreline of Bainbridge Island is in private ownership, they are considered fundamental to the recovery of shoreline ecological functions on the island. Finally, this document describes partnering and grant opportunities that could facilitate implementation of the restoration plan.

This plan was constructed based on Puget Sound Nearshore Ecosystem Restoration Project (PSNERP) guidance and methodologies for identifying, assessing, and prioritizing restoration actions. PSNERP's restoration strategies are process-based and aimed at restoring damaged or degraded ecosystems. Process-based restoration involves making intentional changes to an ecosystem to allow erosion, accretion, tidal exchange, accumulation of wood debris, and other natural process to occur. Process-based restoration is expected to deliver benefits to the diverse array of species that rely upon nearshore ecosystems in a manner that is sustainable and reduces the need for future interventions at the restored site.

Although PSNERP did not identify specific projects on Bainbridge Island, the approach advocated by PSNERP of identifying those areas where human activities have altered geomorphic processes was used throughout this document. In addition, the restoration priorities identified by PSNERP will be used by the City to identify future additional strategic opportunities for restoring nearshore ecosystem processes.