



WASHINGTON STATE DEPARTMENT OF
Natural Resources

Peter Goldmark - Commissioner of Public Lands

Secret Harbor

Salt Marsh Restoration

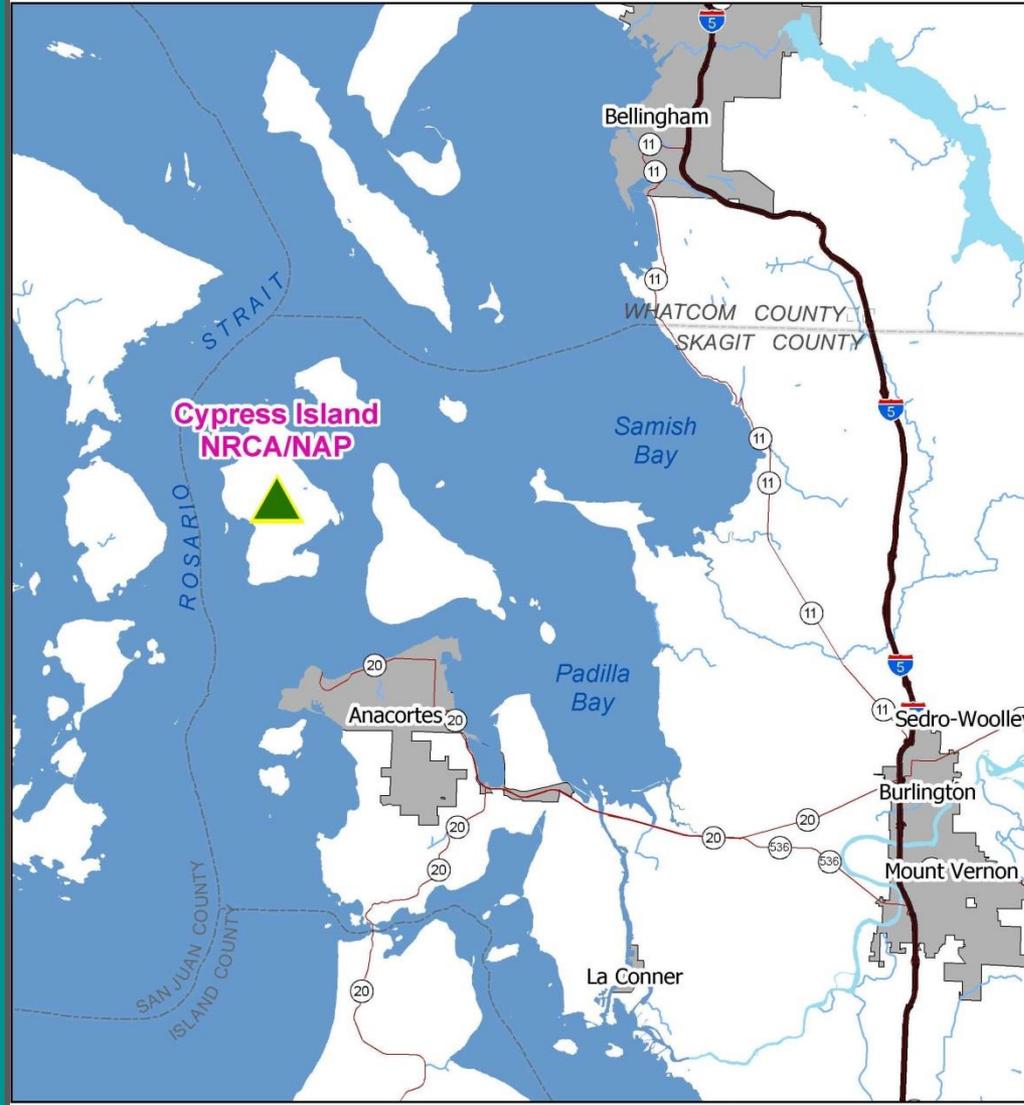
at Cypress Island NRCA

“Before, During, and (almost) After”

Note: Photos are from a variety of sources, including Herrera Environmental Consultants, Puget Sound Corps crew, and DNR staff



Cypress Island Natural Resources Conservation Area / Natural Area Preserve



Project Background

- Former Secret Harbor School Property acquired by DNR in multiple transactions; last in 2008
- Building demolition: 2008-2009
- Contaminated soil cleanup: 2011-Present
- Salt marsh restoration:
 - Design commenced in Spring 2011
 - Construction commenced in Fall 2013
 - Expected completion in Fall 2014



Secret Harbor ... Before

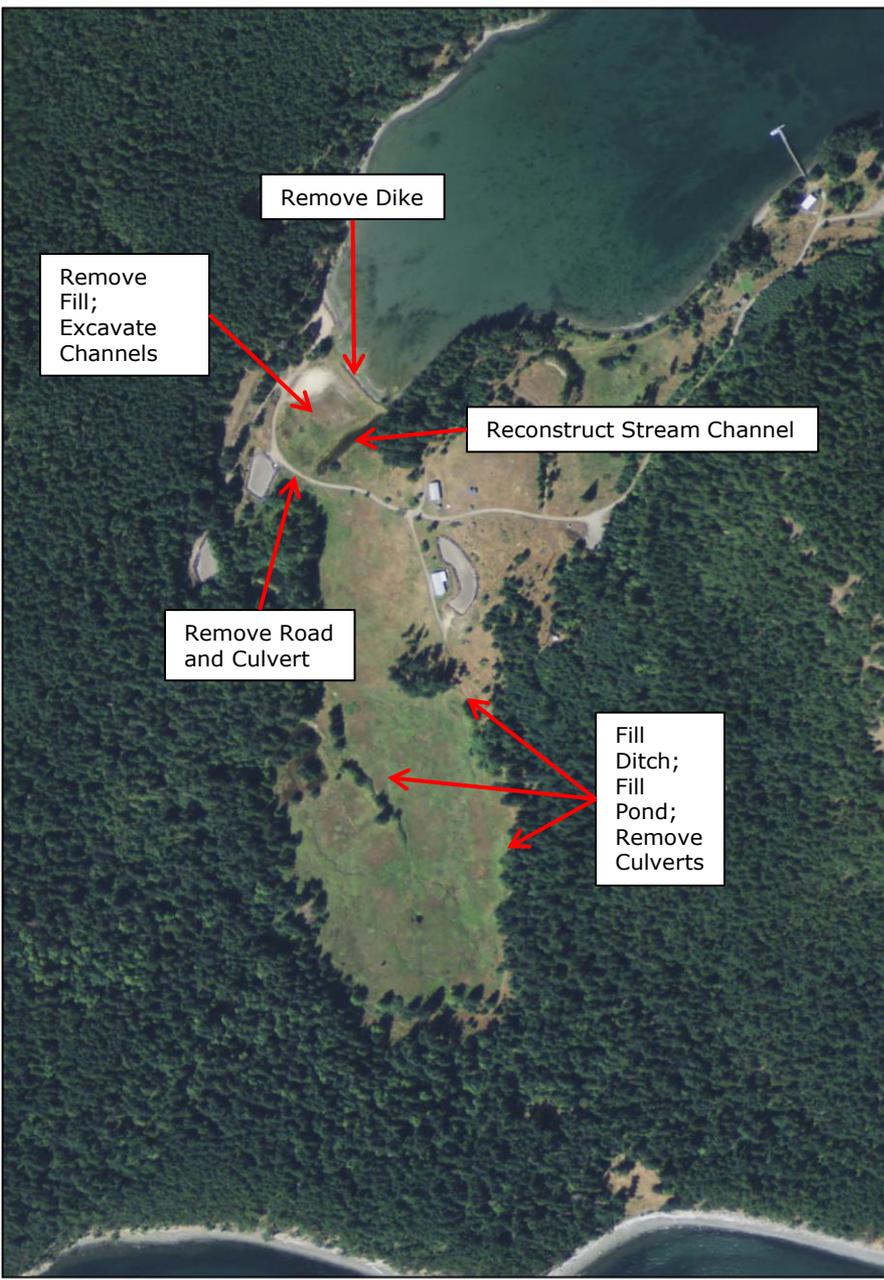


Salt Marsh and Estuary ... Before



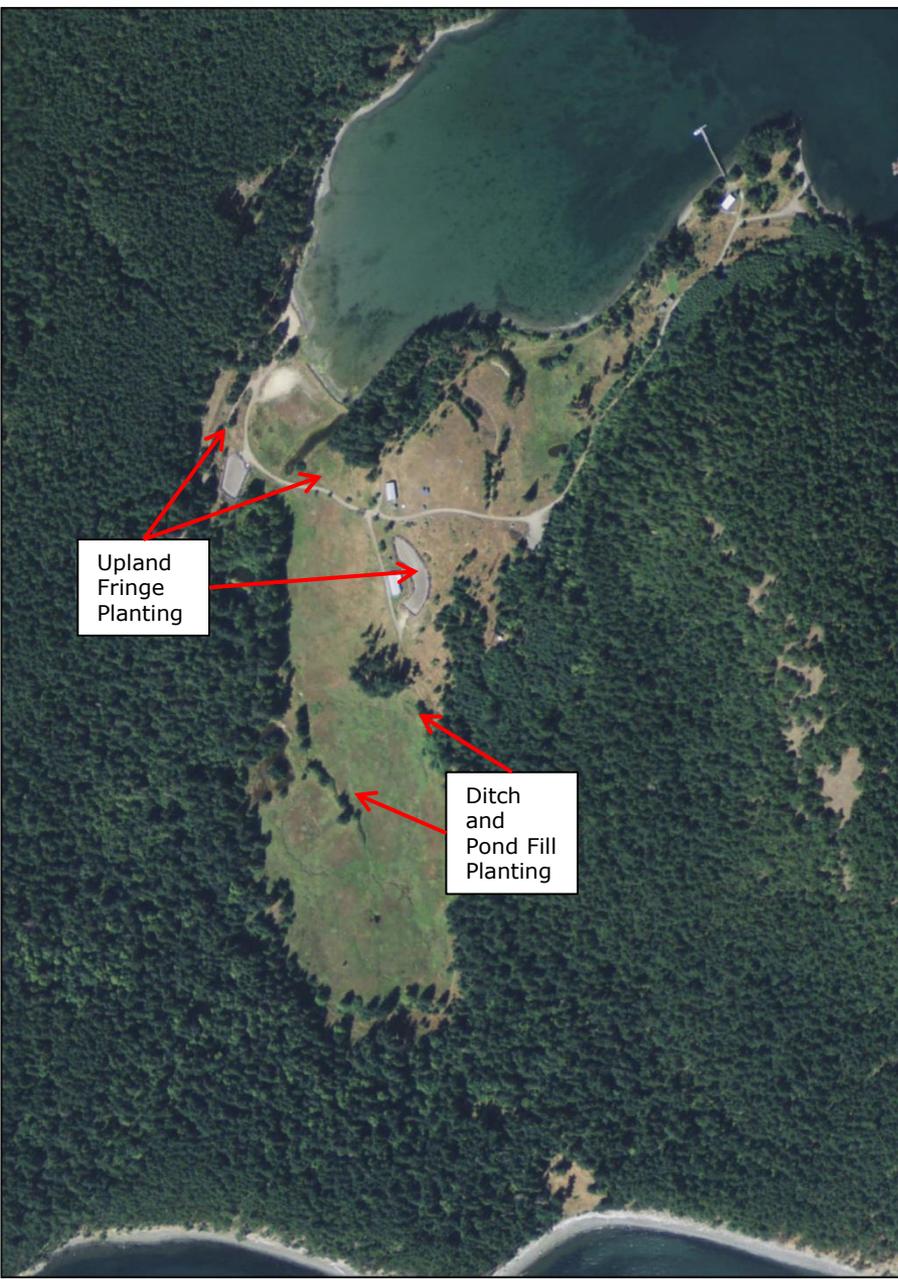
Restoration Design

- Provide continuum of upland, riparian, freshwater and salt water habitats
- Restore hydrologic connection and nearshore processes to estuary
- Restore hydrologic connection to tributary streams/wetlands
- Restore native vegetation to disturbed areas



Restoration Planting

- Approximately 15,000 native trees, shrubs and grasses on 4.5 acres
- Approximately 210 pounds of native seed on 2.0 acres
- Passive revegetation in salt marsh area



Dike and Fill Removal



Pond and Ditch Fill



Estuary Restoration



Estuary Restoration



Distributary Channel Construction



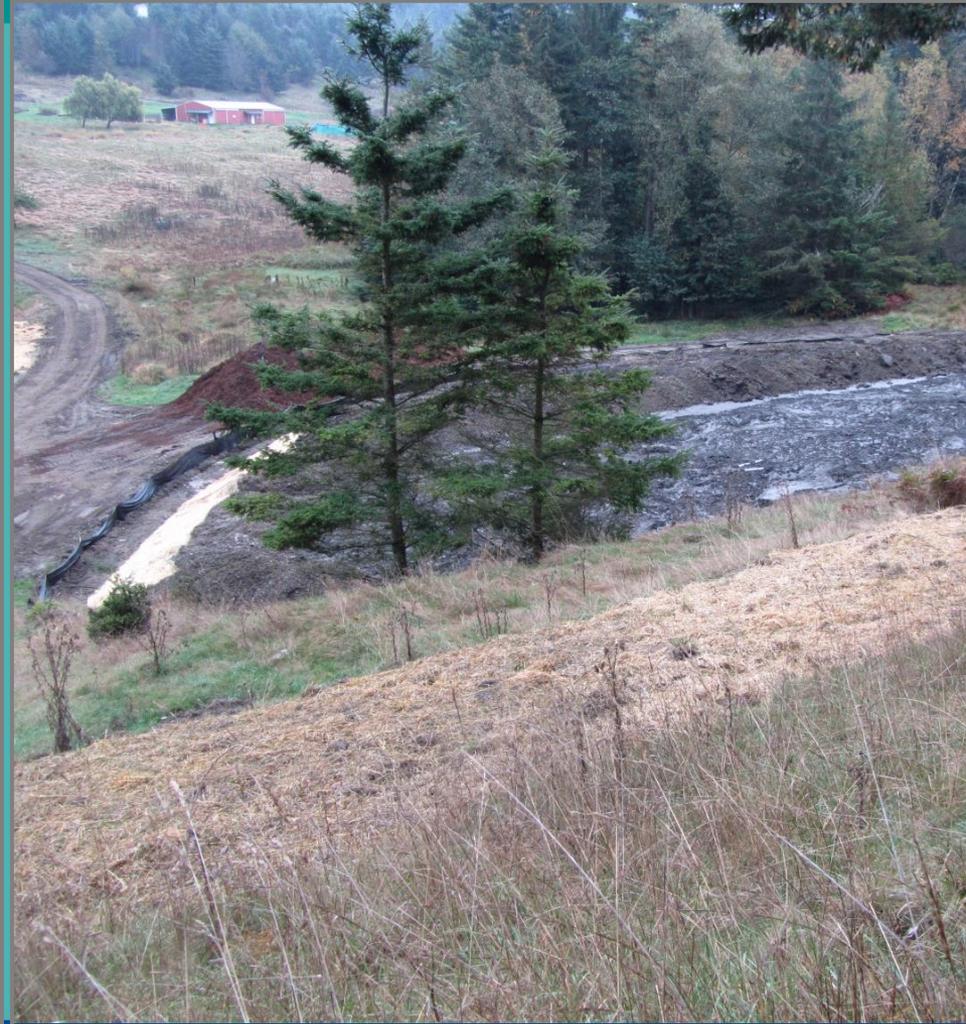
Stream Channel Construction



Dike Breach



Post-Construction (Almost)



Tidal Influence



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Current Conditions





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