

Western Washington University Western CEDAR

Salish Sea Ecosystem Conference

2018 Salish Sea Ecosystem Conference (Seattle, Wash.)

Apr 5th, 10:00 AM - 10:15 AM

Tsleil-Waututh Nation: restoring shellfish harvest opportunities in Burrard Inlet, Canada

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Restoring Shellfish harvest opportunities in Burrard Inlet, Canada







Bridget Doyle, BSc, MSc John Konovsky, Lindsey Ogston, Hillary Hyland

Tsleil-Waututh Nation

Salish Sea Ecosystem Conference, Seattle, April 2018

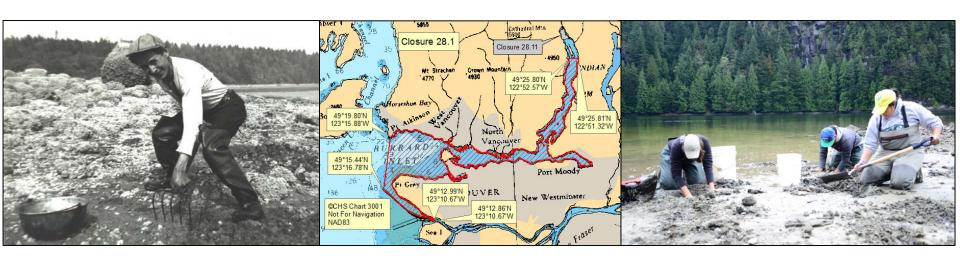


Current state of Burrard Inlet

- 1885: herring extirpated
- 1972—present: closed to bivalve harvesting
- Witnessed a decline in habitat type, function, connectivity, and species populations
- Contains point and non-point pollution sources
- Lacking coordinated monitoring and environmental stewardship oversight
- Lacking continuous record of land use and environmental quality



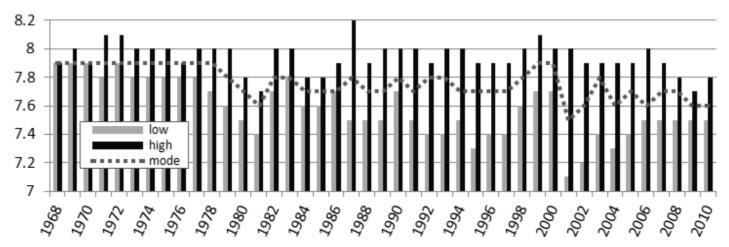
Site reclassification process

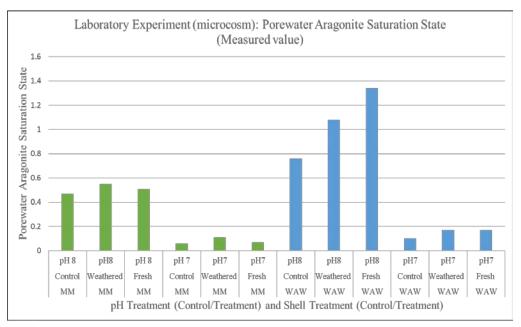


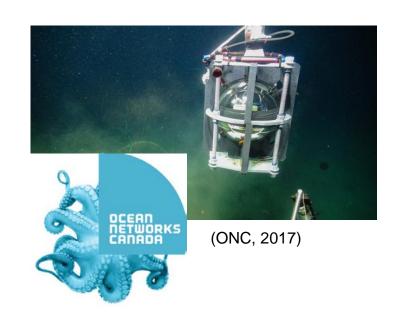
Year Initiated	2005-2010	2010-2015	2015-2020
Activity	 Water quality sampling Point source pollution inventory 	 Viral dilution model Marine biotoxin monitoring Community Harvest Management Plan and Area classification 	 PRISC reclassification First TWN harvest Create conditions to expand opportunities

TWN science related to shellfish program

Seawater pH at Vancouver Aquarium (Marliave, 2011)

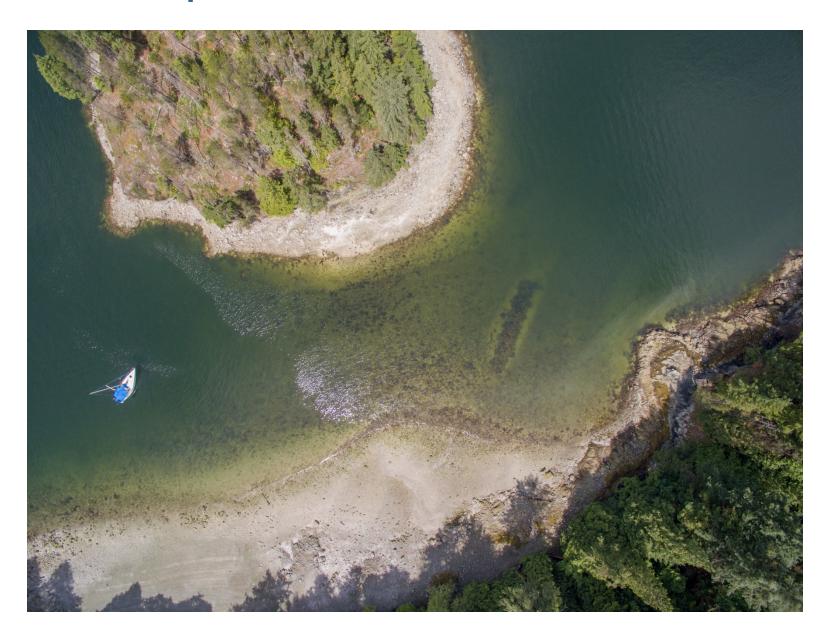




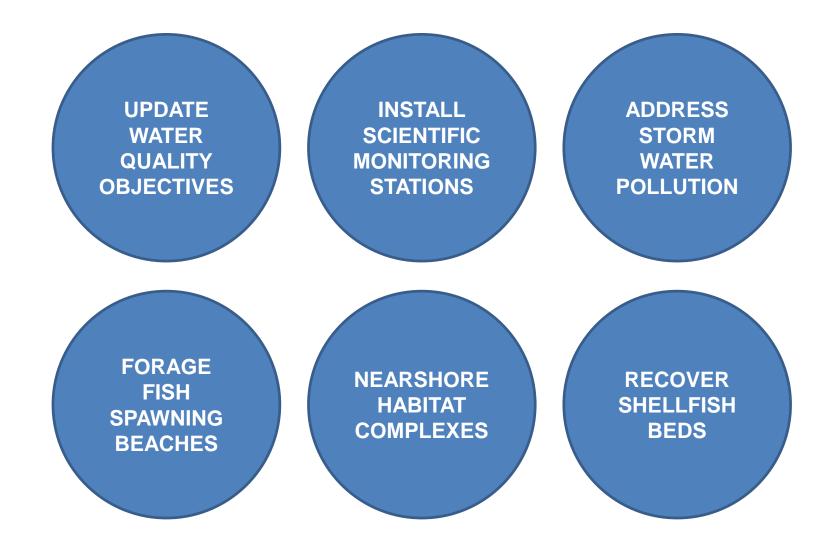


(Doyle, M.Sc. Thesis, Royal Roads Univ., 2016)

Site restoration priorities



Burrard Inlet Action Plan – 6 Priority Actions



MST* Cumulative Effects Monitoring Framework



*MST = Musqueam, Squamish, and Tsleil-Waututh Nation

