

### Welcome!

### Keats (Lehk'tines) Island Marine Shoreline Protection Project

#### This Afternoon's Agenda:

- Presentation on Keats Shorelines
- Introduction of Community Questionnaire
- Q+A Session
- Open House

#### Thursday July 26, 2018



Sunrise 5:37 am Sunset 9:02 pm



Moonset 4:35 am Moonrise 8:30 pm



High Tide 4:17 am Low Tide 11:35 am High Tide 7:12 pm



#### **Presentation Outline**

- Background to the Project
- Identification & Protection of Shoreline Values
- Options for Voluntary Stewardship
- Options for Policy & Regulatory Changes
- Community Questionnaire
- Question & Answer Session



#### **Background**

- LTC top-priority project
- Phase 1 (today, event 2 and community questionnaire):
  - share information
  - introduce potential policy, regulatory, or voluntary stewardship options
  - solicit input regarding community shoreline values
- Subsequent phase informed by events and questionnaire



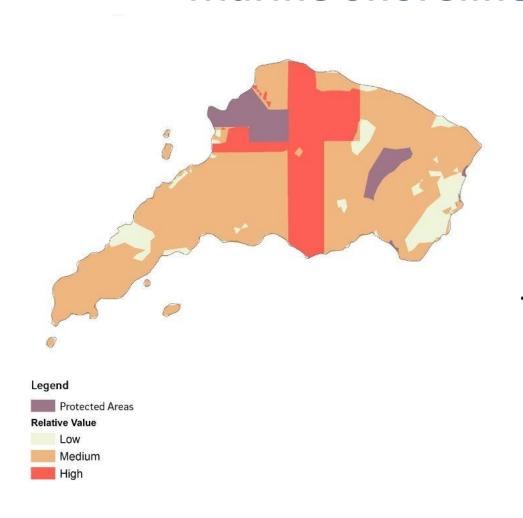
## Identification and Protection of Marine Shoreline Values

- What marine shoreline values do you wish to protect on Keats Island?
- What are the current/potential future threats to those values?





#### **Marine Shoreline Values**

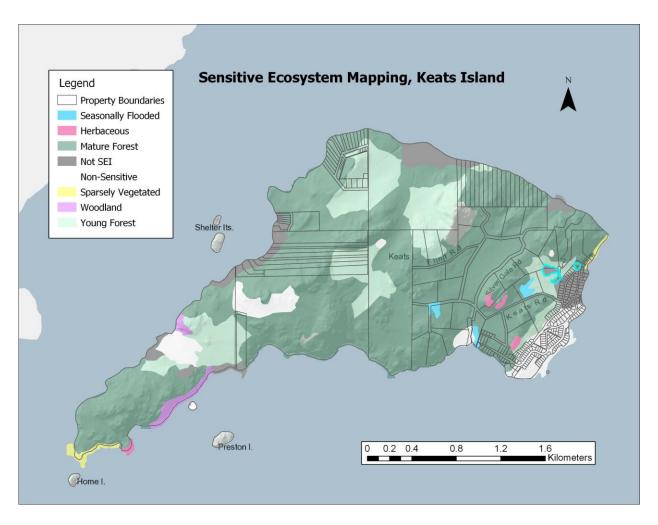


"Due to high amounts of unprotected high relative biodiversity composition values, Lasqueti, Gambier and Salt Spring local trust areas have been identified for high conservation focus."





#### **Sensitive Ecosystems**



- Cliff
- Herbaceous
- Mature Forest (80-250 yrs)
- Old Forest (>250 yrs)
- Wetland
- Woodland



#### **Marine Shoreline Values**









- Kelp beds
- Eelgrass beds
- Rockfish habitat
- Forage fish habitat









#### Gambier Island Local Trust Committee





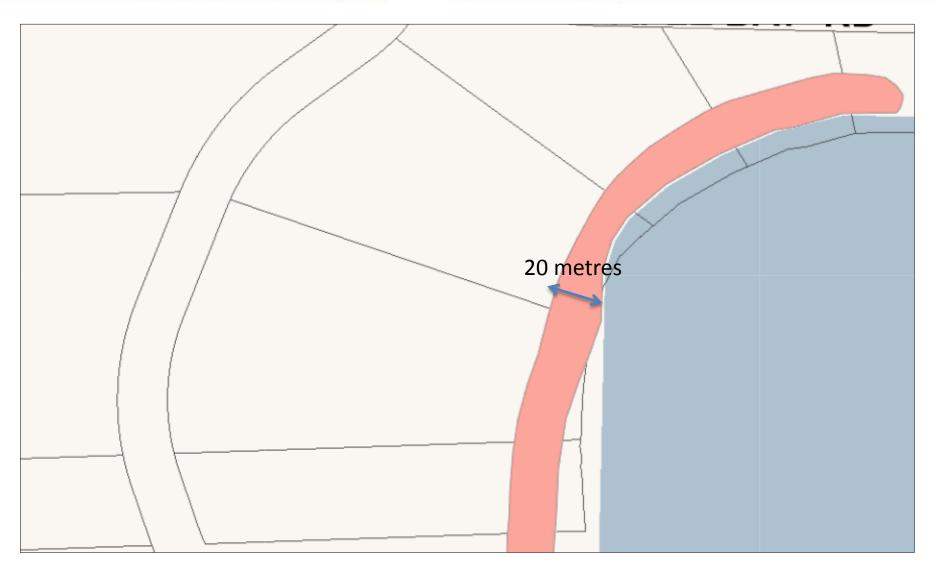
#### **Marine Shoreline Values**

## First Nations of the Gambier Island Local Trust Area The Importance of Foreshore and Marine Resources

- The island region has the highest concentration of archaeological values in the province.
- Estimated that 80% of known archaeological sites are around shorelines.



#### Gambier Island Local Trust Committee





# Islands Trust First Nations Engagement Policy



In committing to Principle E.1, Islands Trust should and island municipalities are encouraged to:

- commit to "listening and learning" about the history of First Nations' connection to the land and waters;
- b. commit to "listening and learning" about First Nations' perspective on treaties, rights and title; and
- c. commit to acknowledging that history, to ensure First Nations and ourselves that the history has been heard and understood correctly.



**Poor Site Planning** 

# Threats to Shoreline Ecosystems



## Infilling and Removal of Riparian Vegetation

- wildlife habitat loss
- juvenile salmon feeding reduced
- filtering function lost



#### **Shoreline Hardening**

- reduced sediment supply to shore
- lowering & hardening of beach
- loss of forage fish spawning areas
- reduction in habitat diversity

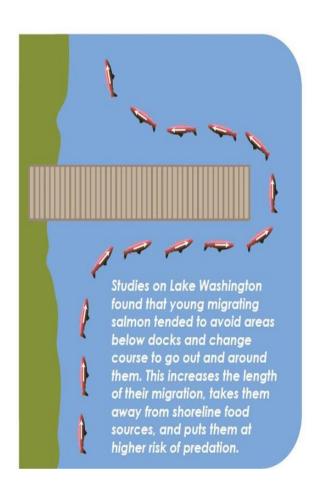


#### **Threats to Shoreline Values**





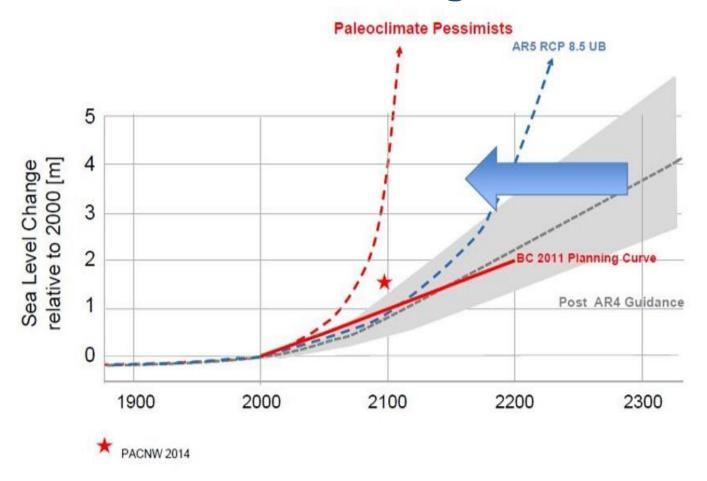
#### **Cumulative Impacts: Docks**







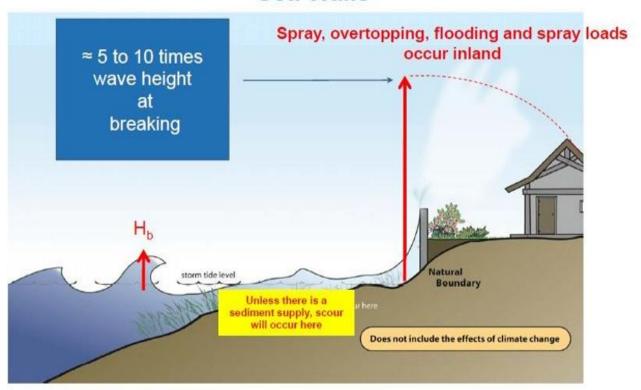
## **Sea Level Rise Planning**





#### **Effects of Shoreline Hardening**

#### Sea Walls





## **Erosion on Hardened Shores: Ross Bay**





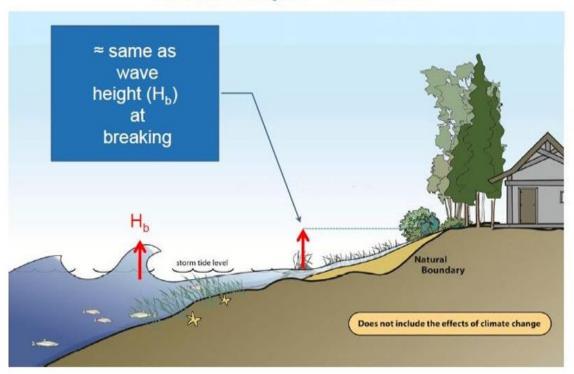
#### **Erosion on Hardened Shores**





#### **Effects of Shoreline Hardening**

#### **Gentle Slopes - Beaches**





#### **Restoration of Hardened Shores**

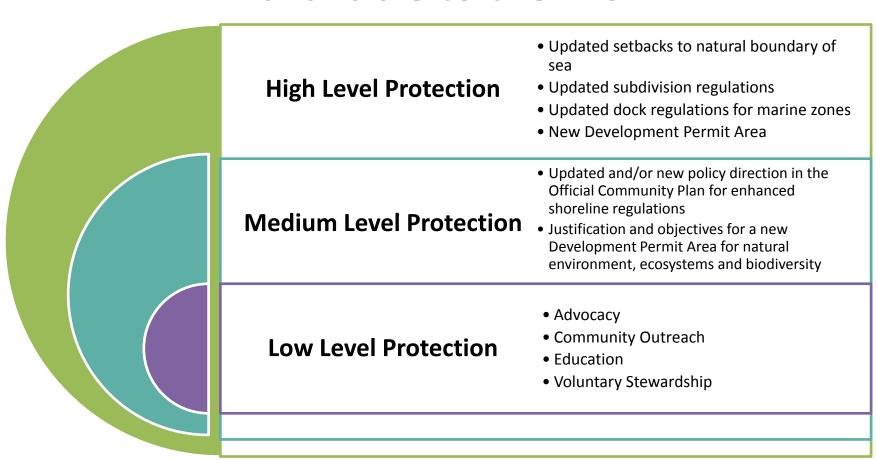




# What marine shoreline values do you wish to protect and how do you wish for them to be protected?



## Shoreline Protection measures available to the LTC





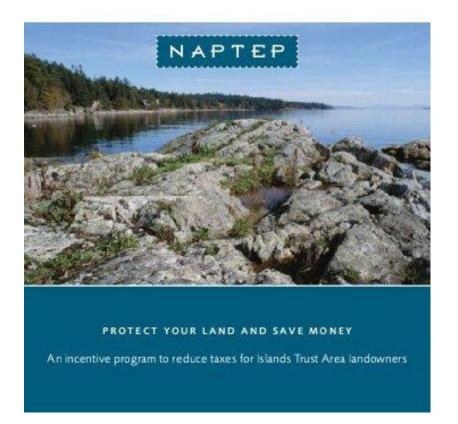
# What are the opportunities for voluntary stewardship on Keats Island?



#### **Voluntary Conservation Covenant**



The Natural Area Protection Tax Exemption Program

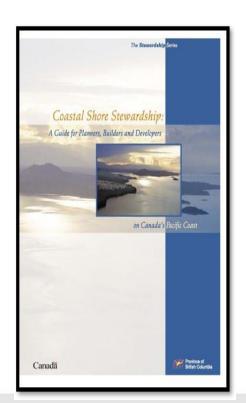




#### **Green Shores**



Green Shores for Coastal Development for large-scale projects





Green Shores for Homes for residential properties



## So how can we help homeowners go from this:







...to something more like this?



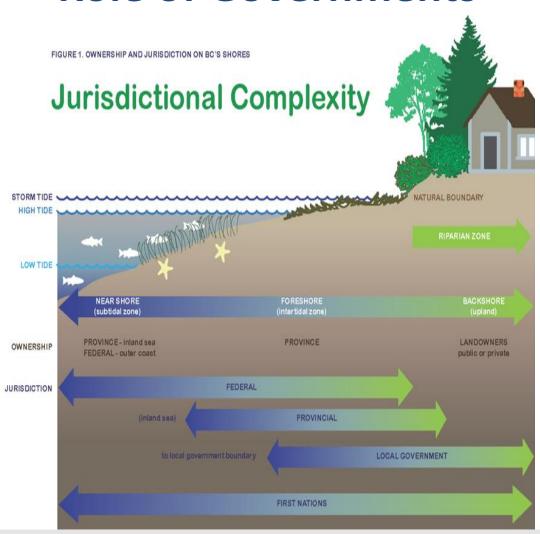




# What are the options for improving existing policy or regulations to formally protect shoreline values?



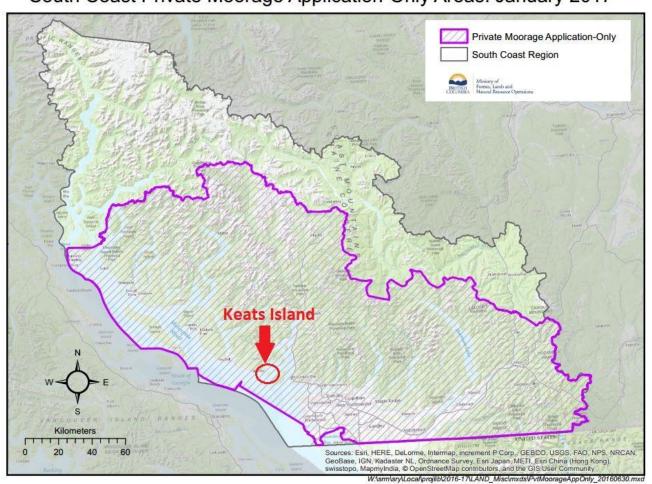
#### **Role of Governments**





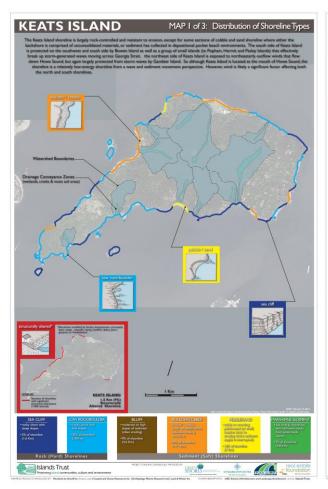
#### **Marine Zoning Regulations**

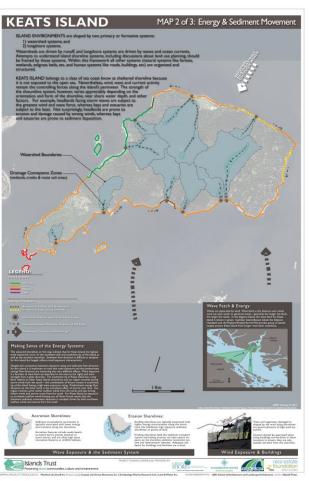
South Coast Private Moorage Application-Only Areas: January 2017

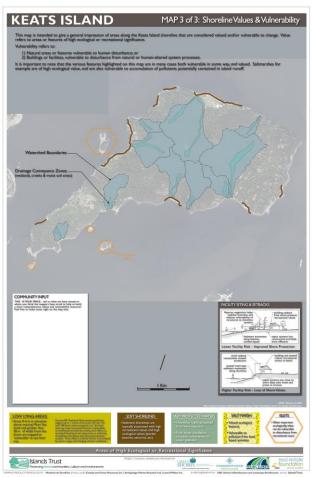




## **Keats Shoreline Mapping**

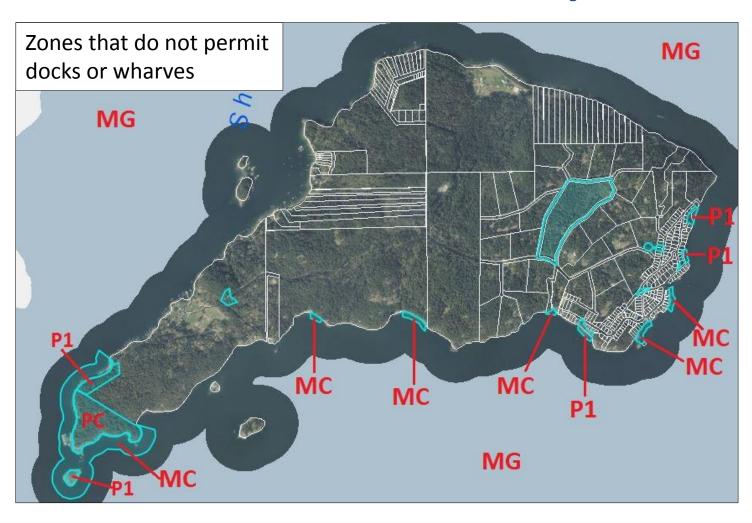






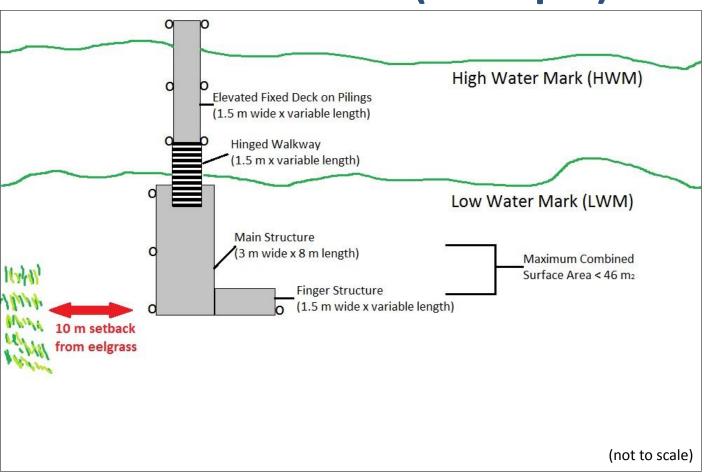


#### **Keats Island Land Use Bylaw**



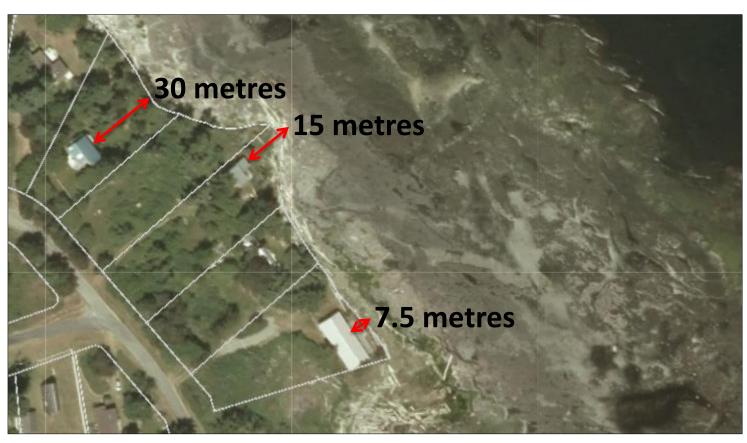


# **Updated Dock Regulations for Marine Zones (example)**



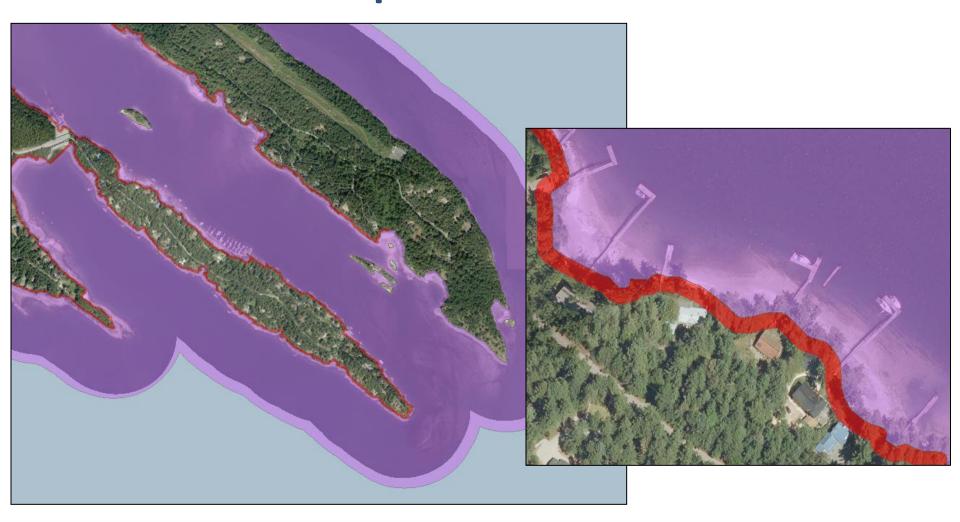


# Setback Regulations to the Natural Boundary of the Sea





## **Development Permit Area**





# What are the options for improving existing policy/regulations to formally protect shoreline values?

What marine shoreline values do you wish to protect?

What are the opportunities for voluntary stewardship in general on Keats Island?



#### Gambier Island Local Trust Committee



#### Gambier Island Local Trust Committee Keats Island Shoreline Protection Project (Phase 1)

#### Community Questionnaire Summer 2018

The Gambier Island Local Trust Committee (LTC) is seeking input from community members and stakeholders on community shoreline protection values, and policy and regulatory options for strengthening protection of marine and shoreline areas on Keats Island.

Your input during the first phase of the project is important to:

- · Assist the Local Trust Committee in identifying priority community marine and shoreline values on Keats Island, and
- Inform Phase 2 of the project, which may include potential amendments to the Keats Island Official Community Plan (OCP) Bylaw No. 77 and/or the Keats Island Land Use Bylaw No. 78.

The questionnaire will take less than 10 minutes to complete and is available online. Paper copies will be distributed by mail, and at the community consultation event held at Keats Camp, Keats Island on Thursday, July 26, 2018. Paper copies can be mailed or scanned and emailed to:

Islands Trust, Northern Office 700 North Road Gabriola Island, BC V0X 1X3 gambierplanner@islandstrust.bc.ca

For more information on the Keats Island Shoreline Protection Project, please visit the <u>project website</u> or contact planning staff at 250.247.2063.

Thank you for your participation!



#### **Questions and Comments**



Thank you.