



Memorandum

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Date: June 27, 2013

To: North Pender and South Pender Local Trust Committees

From: Islands Trust Fund
Kate Emmings, Ecosystem Protection Specialist

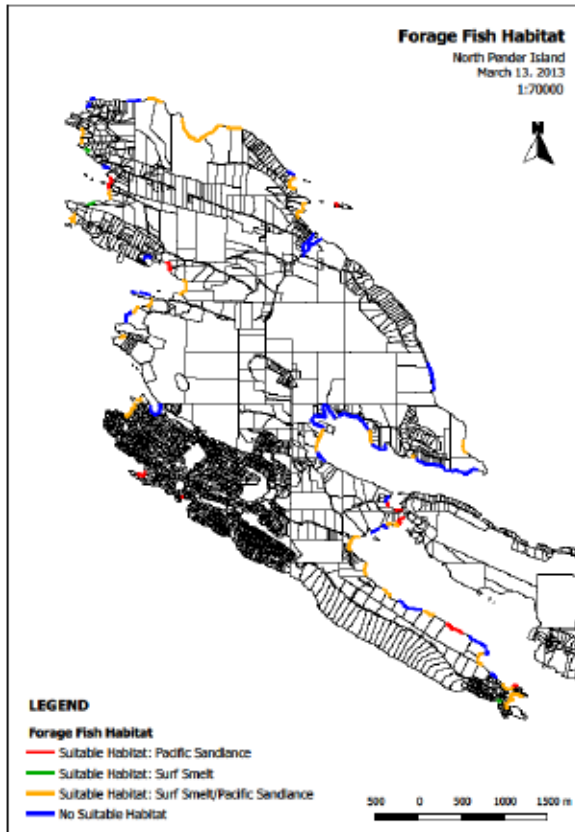
Re: Forage Fish Mapping Pilot Project, North and South Pender

Message:

The Trust Fund Board and the Islands Trust have completed Forage Fish Mapping for North and South Pender. The mapping identifies suitable spawning habitat for Surf Smelt and Sandlance. Interestingly, most of the habitat found in the Penders is mixed (i.e. it is suitable for both species). See excerpts below for a quick summary of the breakdown of habitat.

More information on Forage Fish, their importance in the marine food web and the distribution of potential spawning habitat on North and South Pender, is available in the attached report. Information on the Forage Fish Mapping Project can also be found at the Islands Trust Fund website at <http://www.islandstrustfund.bc.ca/initiatives/ecosystem-mapping.aspx>.

North Pender Potential Spawning Habitat



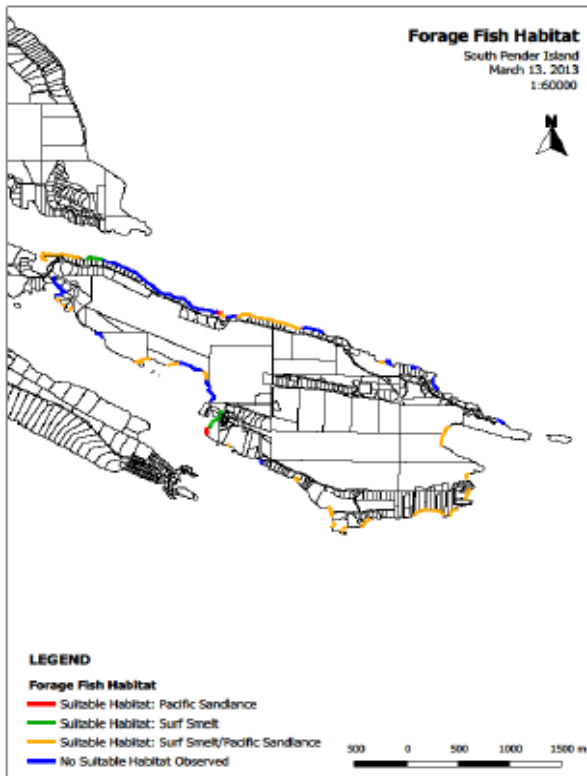
The total length of potential spawning habitat is 4,469 meters and classified as 500 m specific to Pacific sand lance (11 %), 62 m specific to surf smelt (1.4%), and 3907 meters as mixed surf smelt/Pacific sand lance spawning habitat (87.6%) (Table 1).

Table 1: Classification of N Pender Potential Forage Fish Beach Types

	PSL	SS	SS/PSL	Total
Length (m)	500	62	3907	4469
Length Percentage	11%	1.40%	87.60%	100%

PSL – Pacific sand lance
SS – Surf smelt

South Pender Potential Spawning Habitat



The total length of potential spawning habitat is 3,098.3 meters and classified as 73 m specific to Pacific sand lance (2.4%), 461.3 m specific to surf smelt (15%), and 2,564 meters as mixed surf smelt/Pacific sand lance spawning habitat (83%) (Table 2).

Table 2: Classification of S Pender Potential Forage Fish Beach Types

	PSL	SS	SS/PSL	Total
Length (m)	73	461.3	2564	3,098.30
Length Percentage	2.40%	15%	83%	100%

PSL – Pacific sand lance
SS – Surf smelt