

Beach Profiling

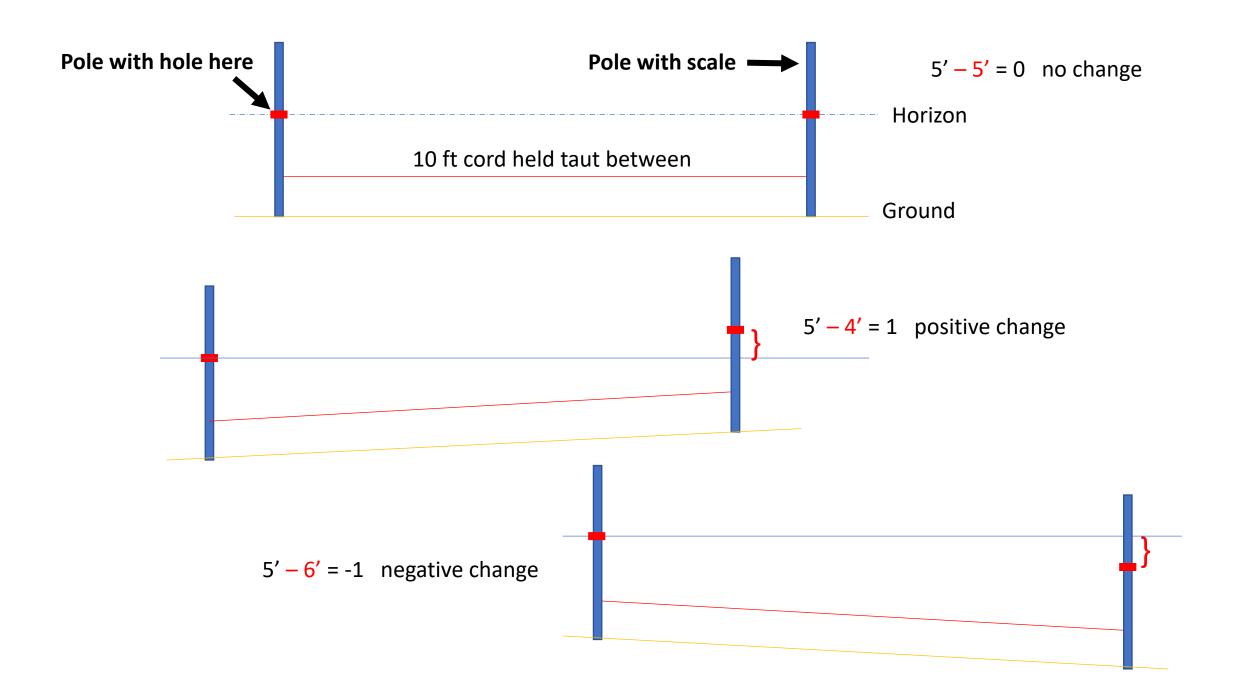
- allows you to take a snapshot (cross section) of a beach at a point in time
- taking the same snapshot in different months and/or years show changes over time
- changes may be due to wave action, currents or the placement or removal of man-made structures

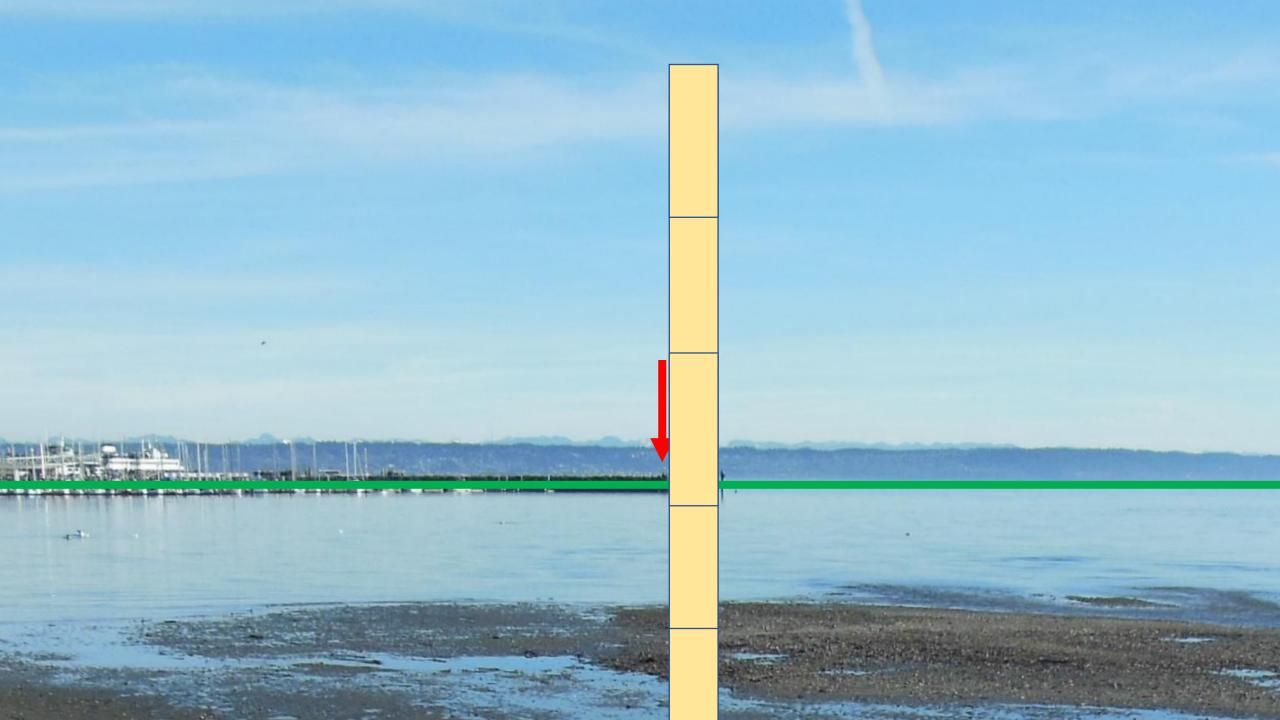
Concerns by property owners prompted Stillwaters to conduct beach profiling to document changes in sedimentation patterns in the cove after culvert removal





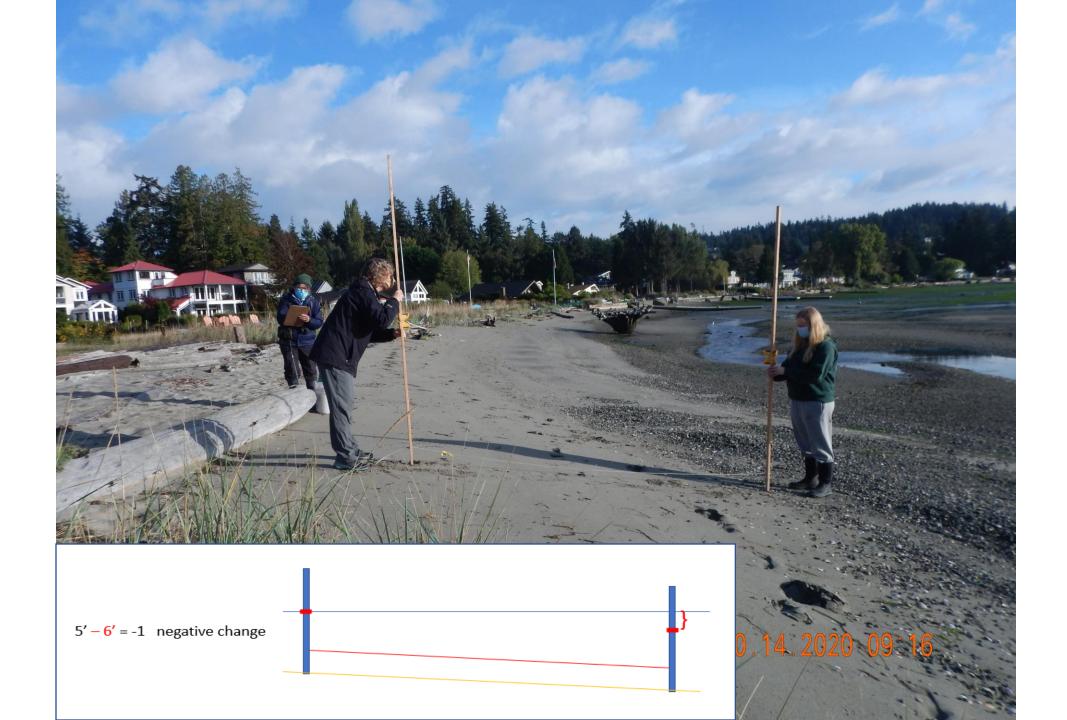






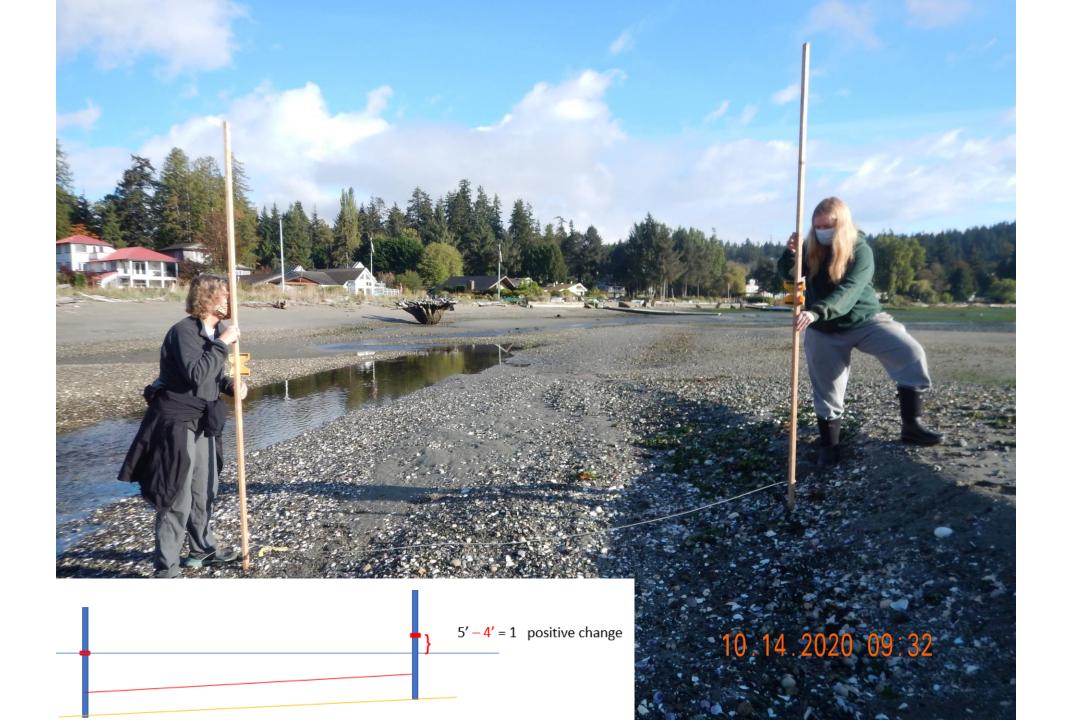










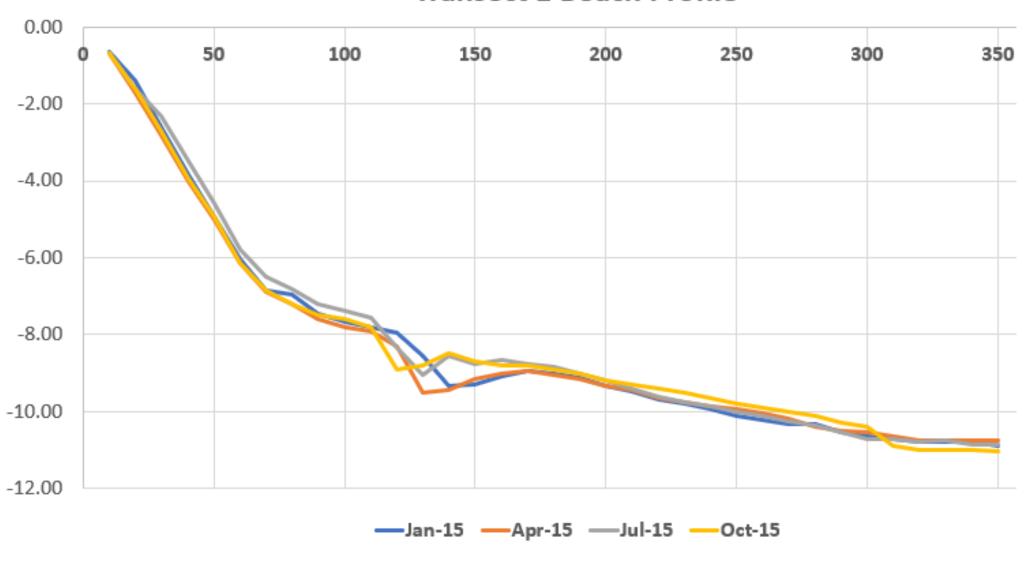




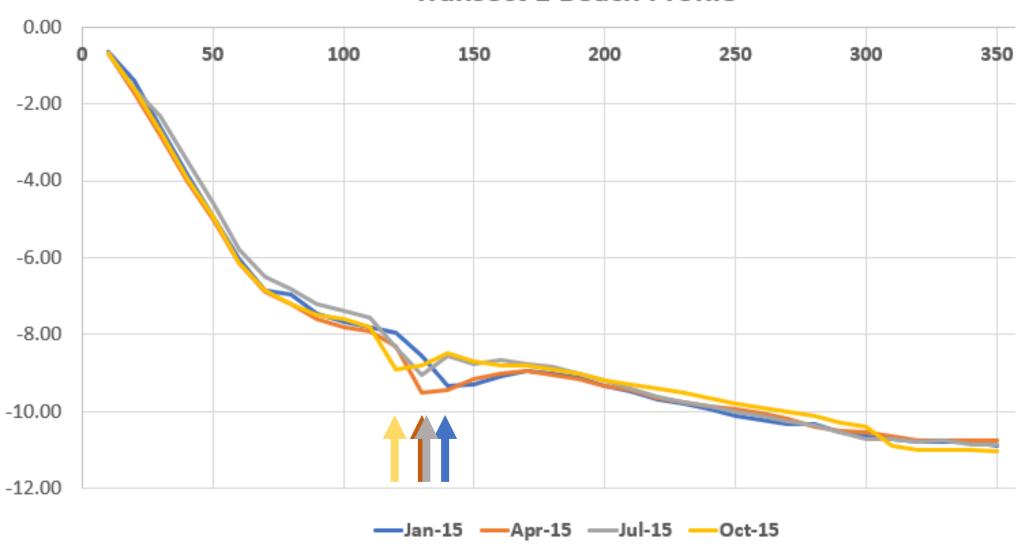




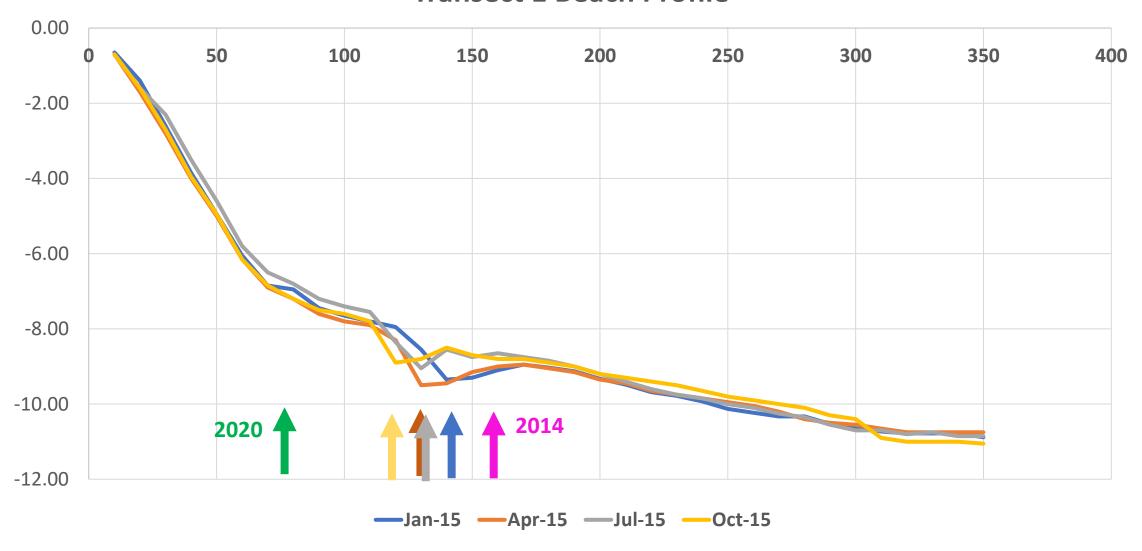
Transect 1 Beach Profile

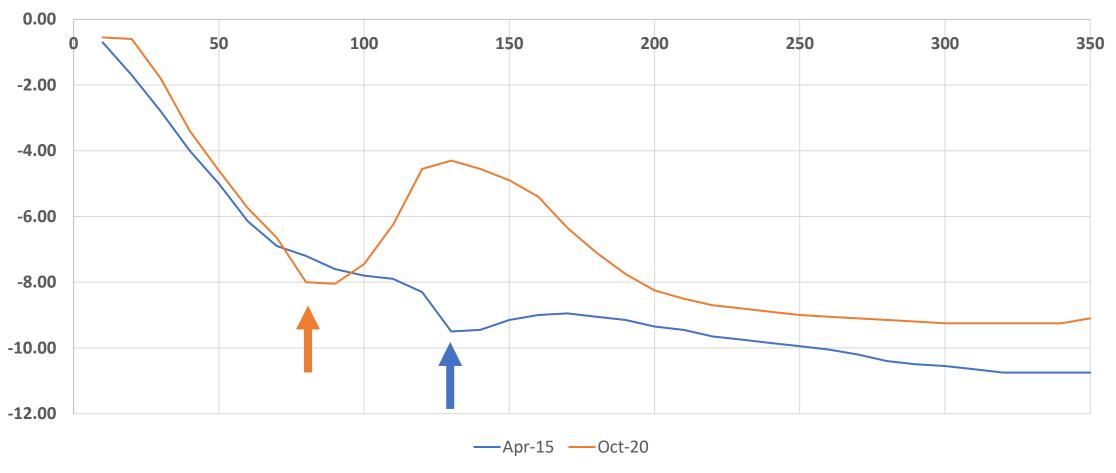


Transect 1 Beach Profile



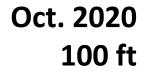
Transect 1 Beach Profile







April 2015 100 ft





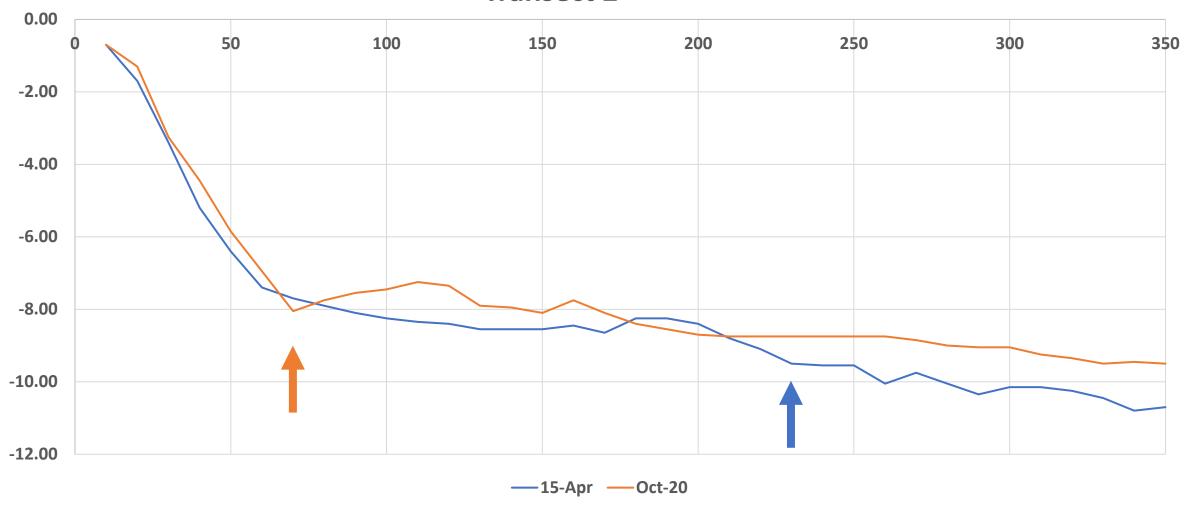


April 2015 150 ft (Stream @ 130-140 ft)

Oct 2020 150 ft



Transect 2





April 2015 100 ft

> Oct 2020 90 ft



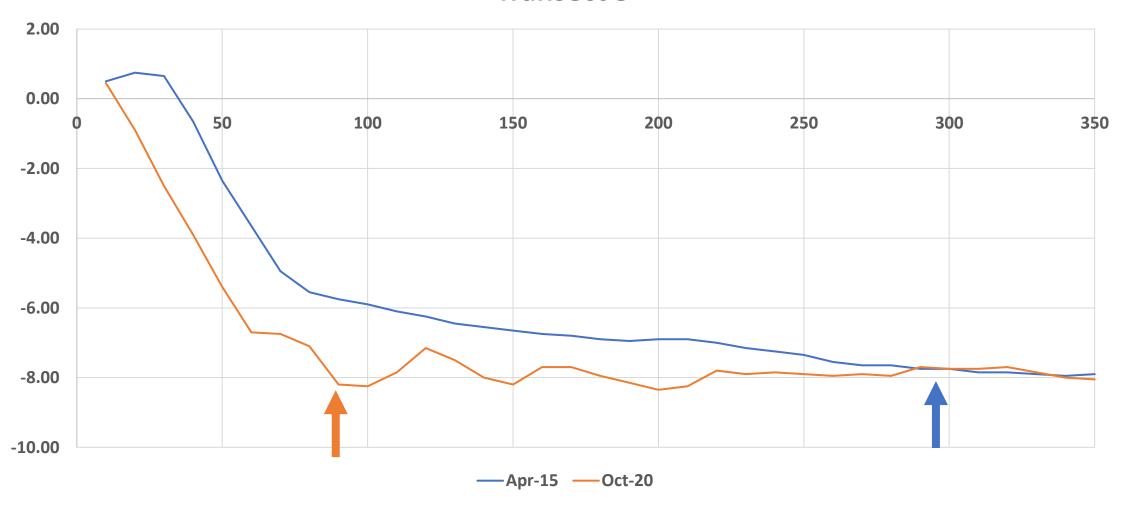


April 2015 250 ft (Stream @ ~230 – 300 ft)

Oct 2020 250 ft



Transect 3





April 2015 100 ft

> Oct 2020 90 ft



April 2015 300 ft (Stream @ 290-300)

> Oct 2020 300 ft.



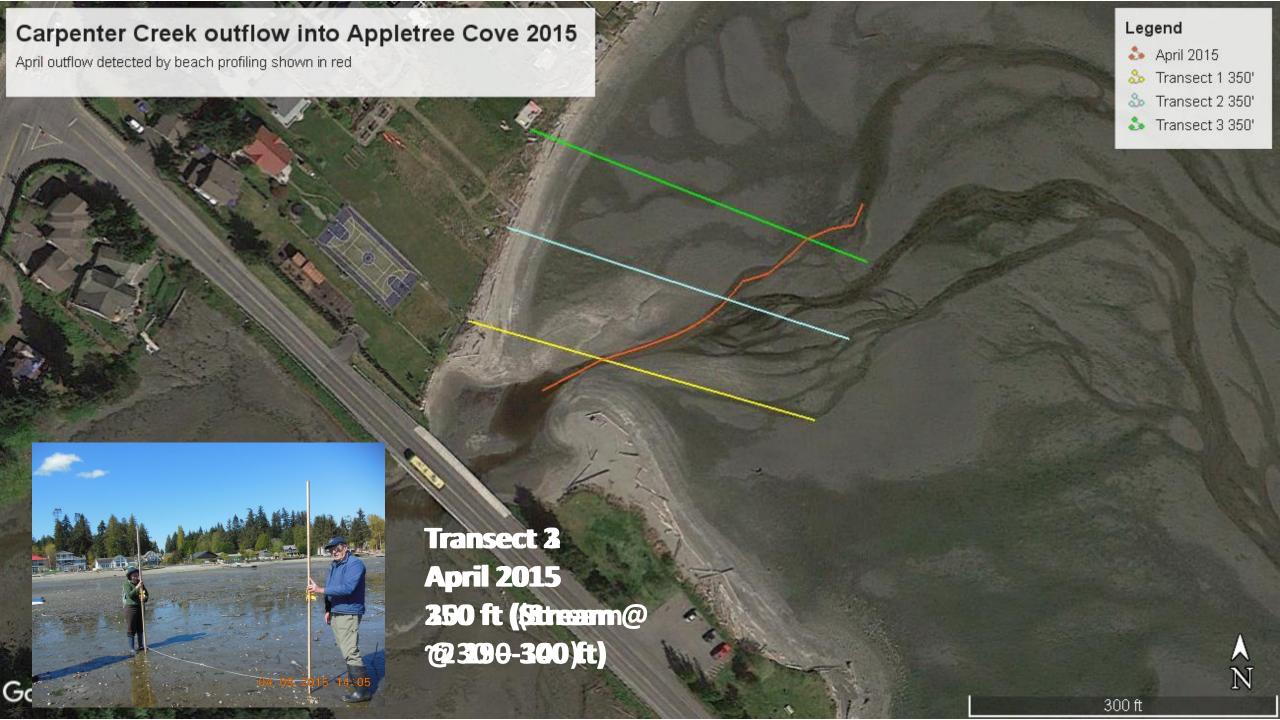


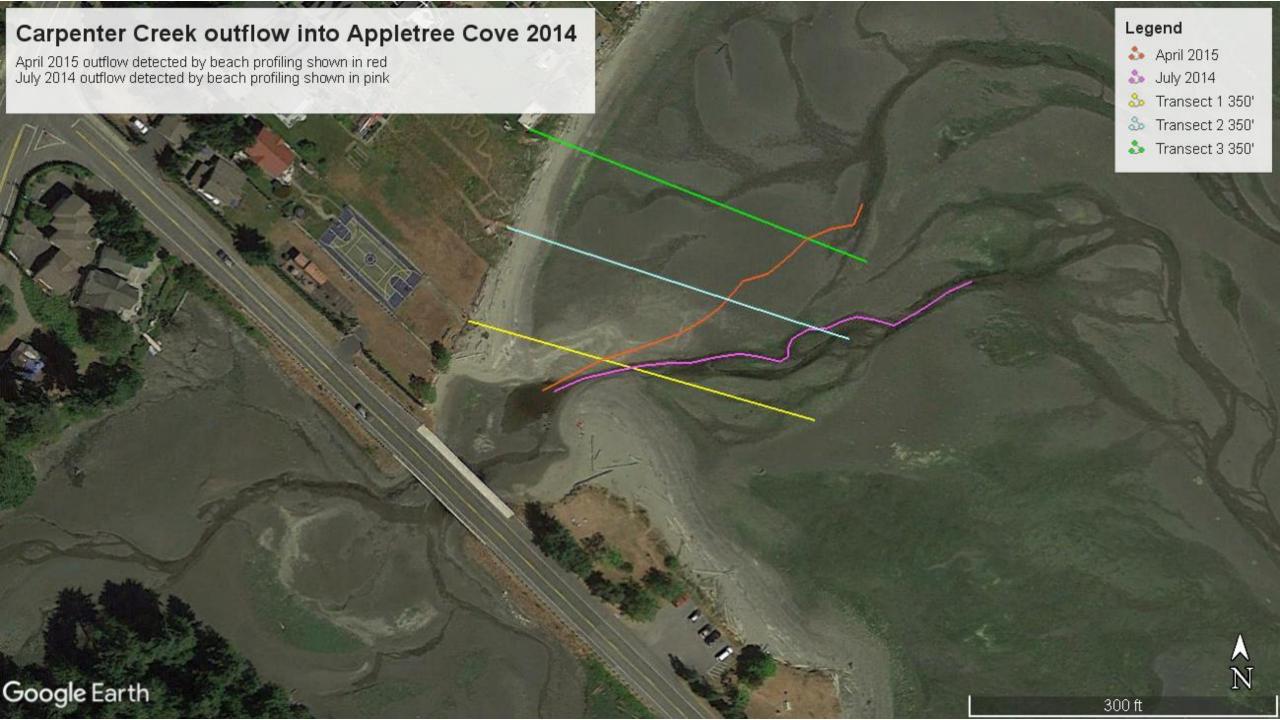




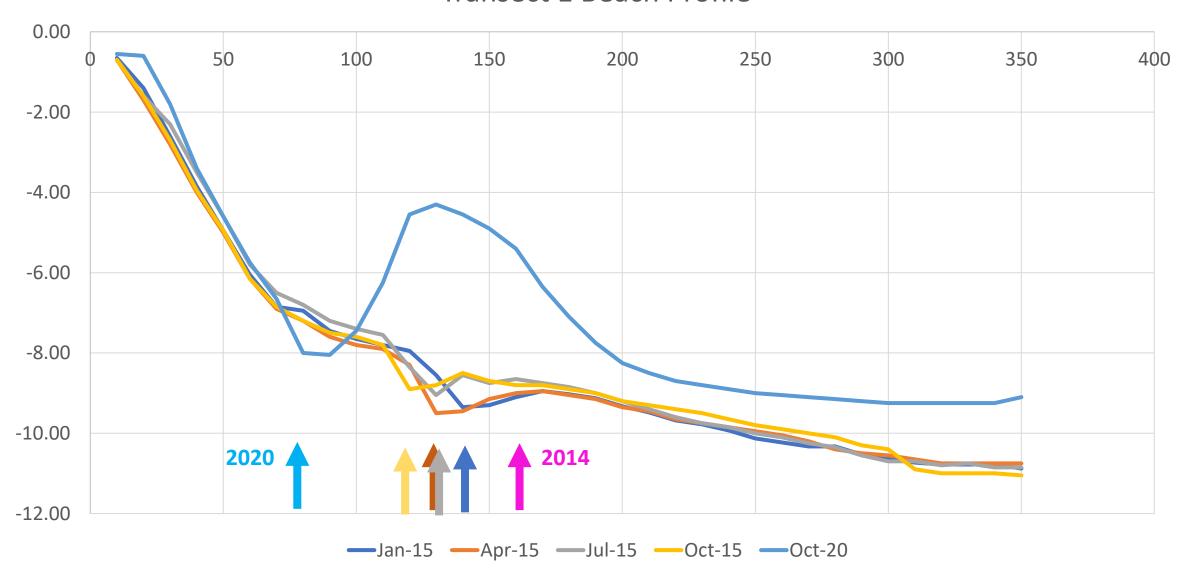


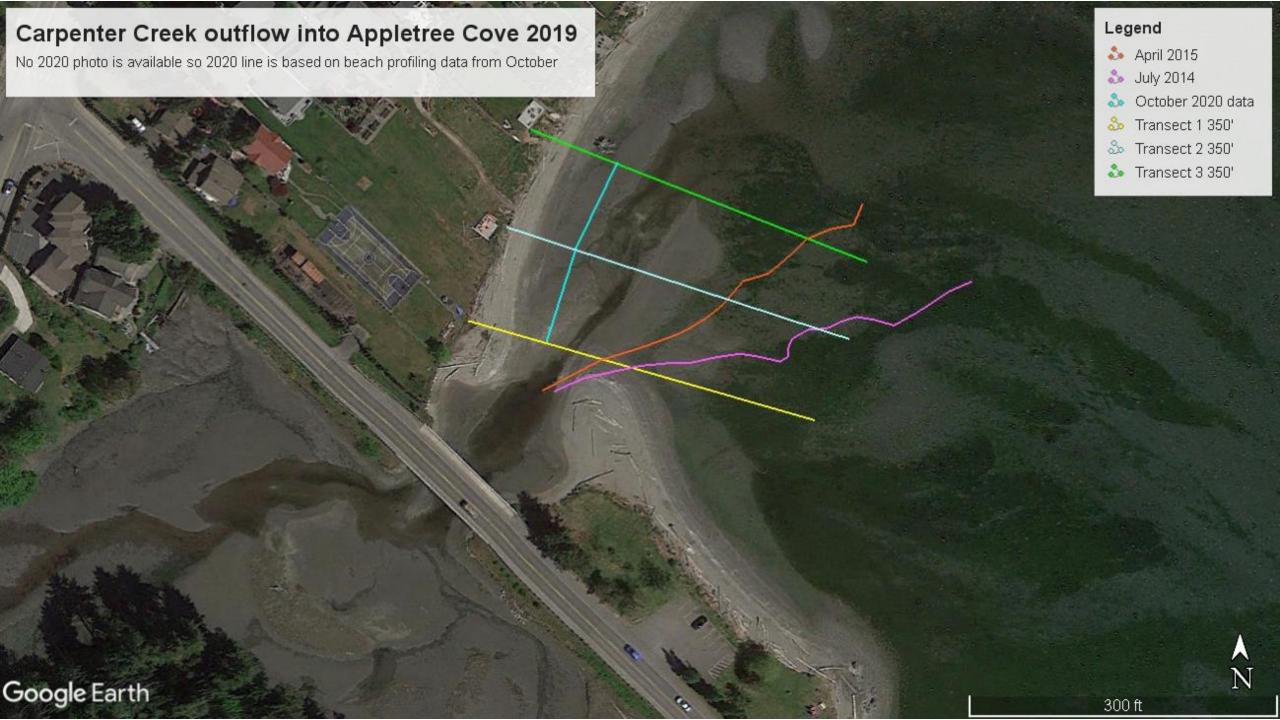


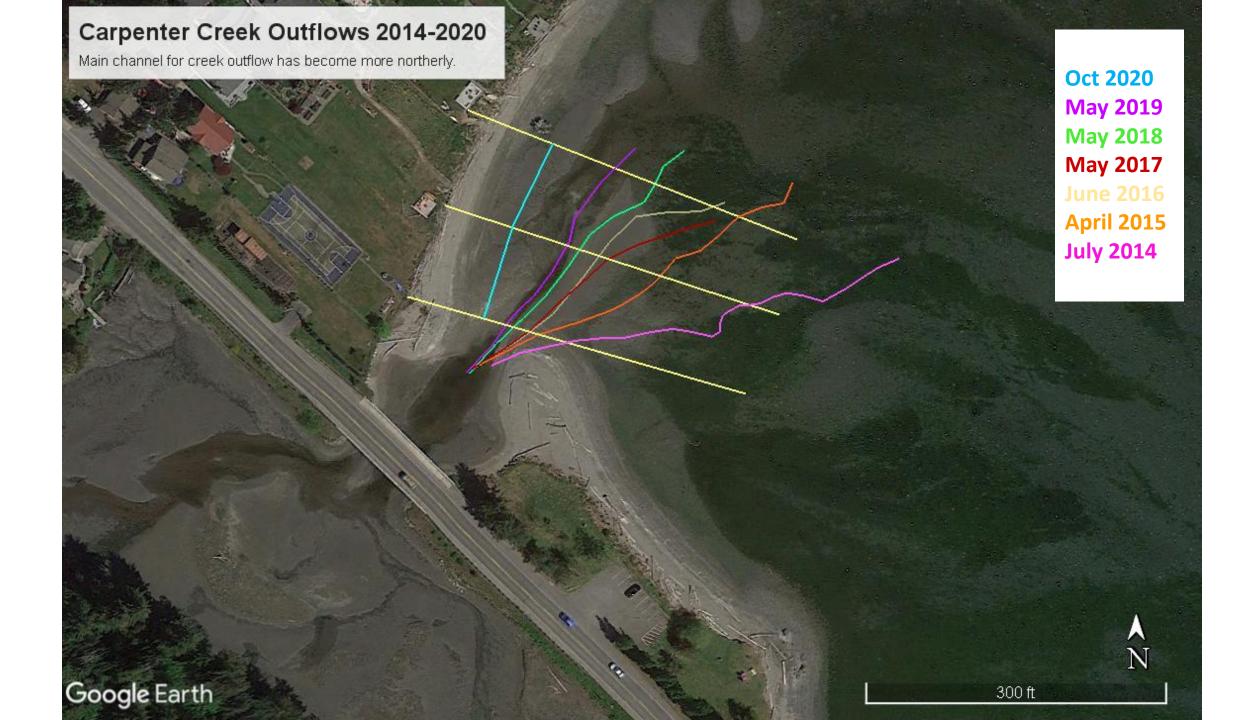




Transect 1 Beach Profile



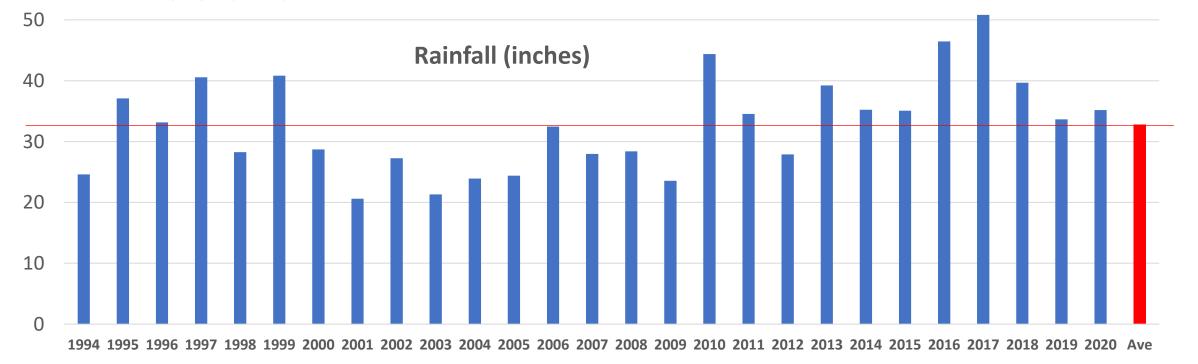




Since 2014, the main outflow of Carpenter Creek through Appletree Cove at low tide has been moving north – why?

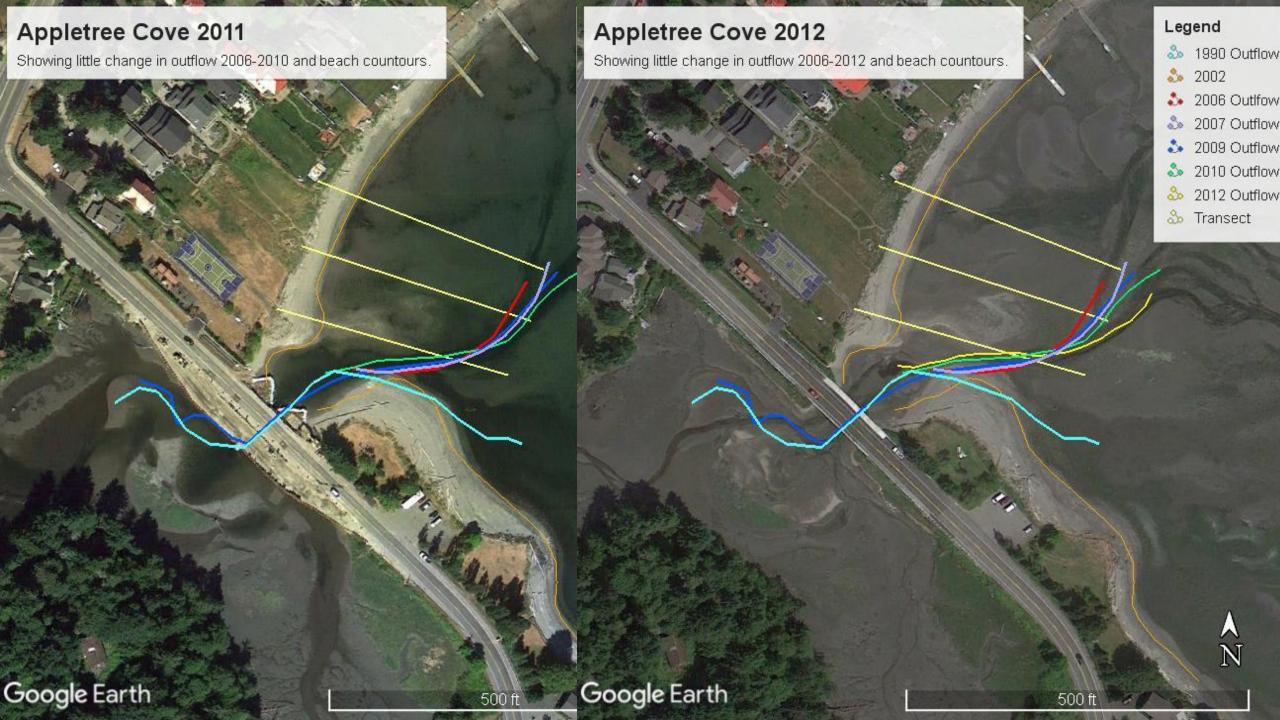
- Build up of sediment on right bank. But why?
- Natural flow rates as opposed to flow rates increased by the restricted culvert?
- More sediment being moved out of the estuary since 2012 Fish Passage?
- More sediment and/or water moving out of the estuary since the 2018 bridge?
- More rainfall?

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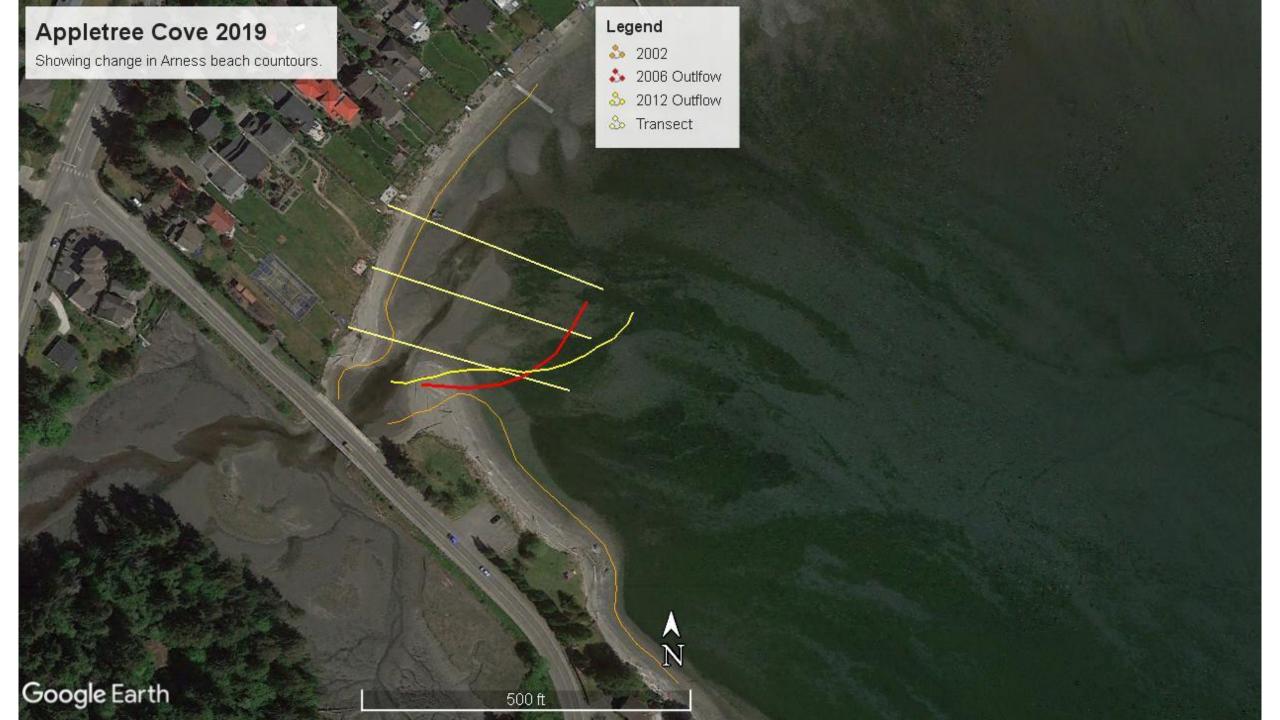




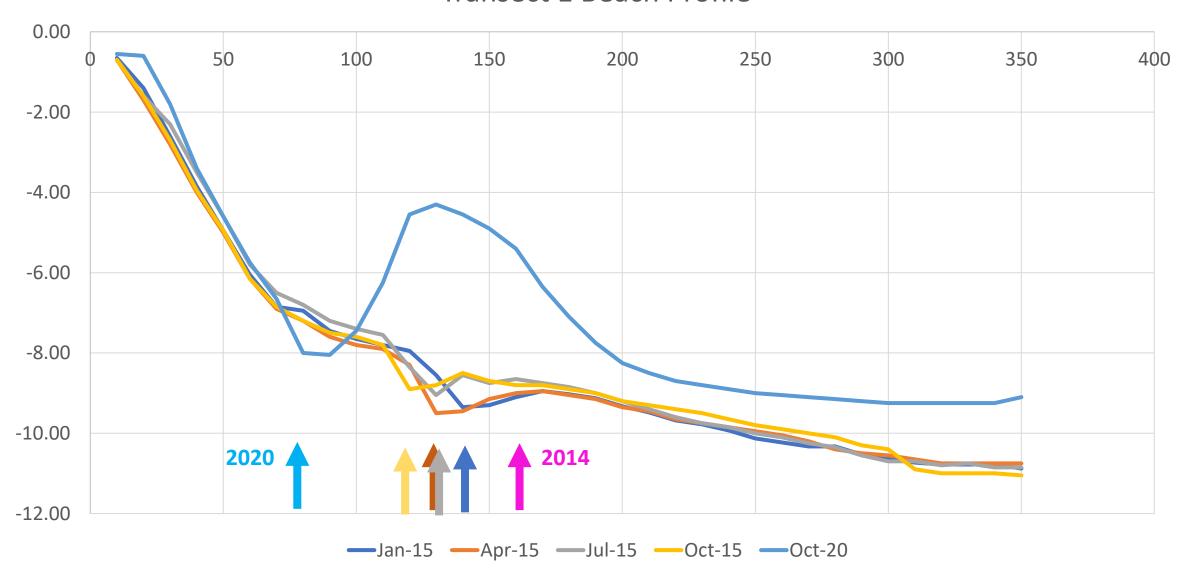








Transect 1 Beach Profile



Rainfall (inches)

