

# Harper Estuary Restoration Project



# Harper Estuary Project Background

Kitsap County priority for over a decade

Department of Ecology selected Harper Estuary in 2013 to receive Asarco funds for habitat restoration.

Specific restoration actions identified in legislation included:

- *“Restore tidal inundation by either removing the roads completely or constructing a new bridge to span the estuary opening”*
- *“Removing bulkheads, debris and fill”*
- *“Planting native vegetation to re-establish the estuary’s habitats”*

# What is the Harper Estuary Restoration Project?



*Restore habitat processes in Harper Estuary that have been impacted by road development, fill and historic uses of the estuary and shoreline.*



Phase 1: Remove historic fill and add habitat components;  
Reconnect wetlands with tidal influence  
Relocation of boat landing;



## Phase 2: Replace culvert on Olympiad Drive

# Harper Estuary Timeline

Concurrent work on Phase 1 & Phase 2  
Check-in points for community meetings

## Phase 1:

Submittal of permits by July 2015  
Construction in 2016

## Phase 2:

Type, Size and Location Report & 30% design  
Submittal of grant applications in spring 2016  
Final design by end of 2017  
Construction in 2018

# Harper Estuary Restoration Project

## Phase 1



**Doris Small- WDFW Habitat Biologist**  
**Corey Morss- WDFW Engineer**



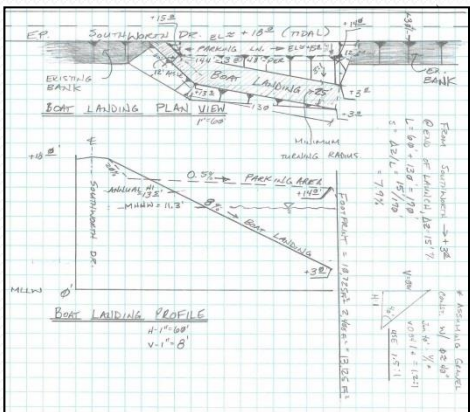
# Preliminary Studies

- Topographic survey
- Phase 2 testing & results
- Archaeological & cultural resources
- Wetlands delineation
- Biological studies









## Restoration Actions:

- Remove “Clinkers”
- Excavate fill to expose former marsh and tidelands
- Remove Remnant Road Fill and reconnect marsh and tidelands
- Remove Pilings and Bulkhead
- Install Soft Bank Protection
- Realign Tidal Channels
- New Boat Landing Location
- Remove Contaminated Soils and fill

**Website:**  
**[www.westsoundwatersheds.org](http://www.westsoundwatersheds.org)**

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