

Project Overview

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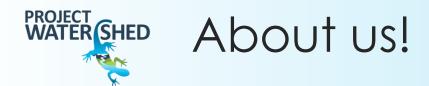




PROJECT SHED

Agenda

- Intro to Project Watershed
- Overview of the project:
 - Site History
 - Project History
 - Goals and Objectives
- Property Acquisition and Land Transfer
- Restoration
 - Design process
 - Phases
 - Permitting
- Goals/Monitoring
 - Detailed progress so far
 - Technical challenges and problem solving
- KKS Partner Group
- Funding
- Future of the Site



- Watershed stewardship group
- Registered charity since 1993
- Focused on the health of Comox Valley's Project Watersheds
- Current areas of focus/expertise include coastal, nearshore and estuarine restoration, forage fish research, freshwater restoration and collaborative, community-focused stewardship





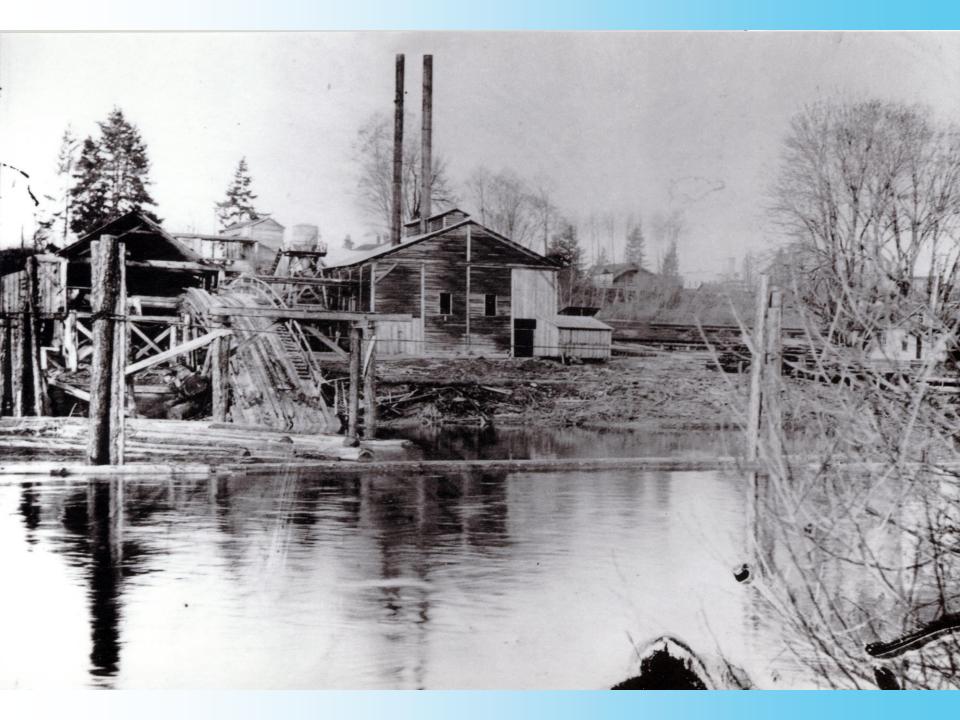


Figure 1. Kus-Kus-Sum project location (photo source: Google Earth).



Site in 1946







Field's Sawmill 1950











Acquisition/Restoration Timeline

- 2016 Partnership team formation
- 2017 Launch fundraising & agreement w/
 Interfor
- 2020/2021 Purchase Site
- 2021/2022 Initiate restoration; Hard surface removal
- 2022/2023 Recontouring & revegetation
- 2023/2024 Recontouring & revegetation
- 2024/2025 Steel piling wall removal



Core Project Goals

- Restoration of ecological values
- Reconnection to the floodplain and Courtenay River, and adjacent conservation areas
- Reconciliation and the rematriation of landscapes
- Climate change adaptation and mitigation
- Community resilience



Land Acquisition

- Entered into an agreement with Interfor in 2017 with K'omoks First Nation and City of Courtenay
- Agreed to hold the land for purchase until we'd raised the required cost
- Finished fundraising late
 2020 and completed
 the land transfer in 2021





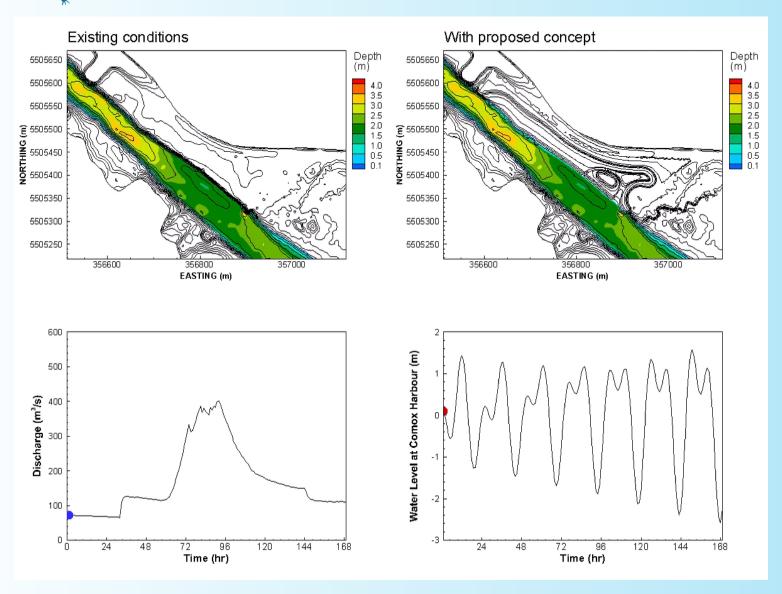


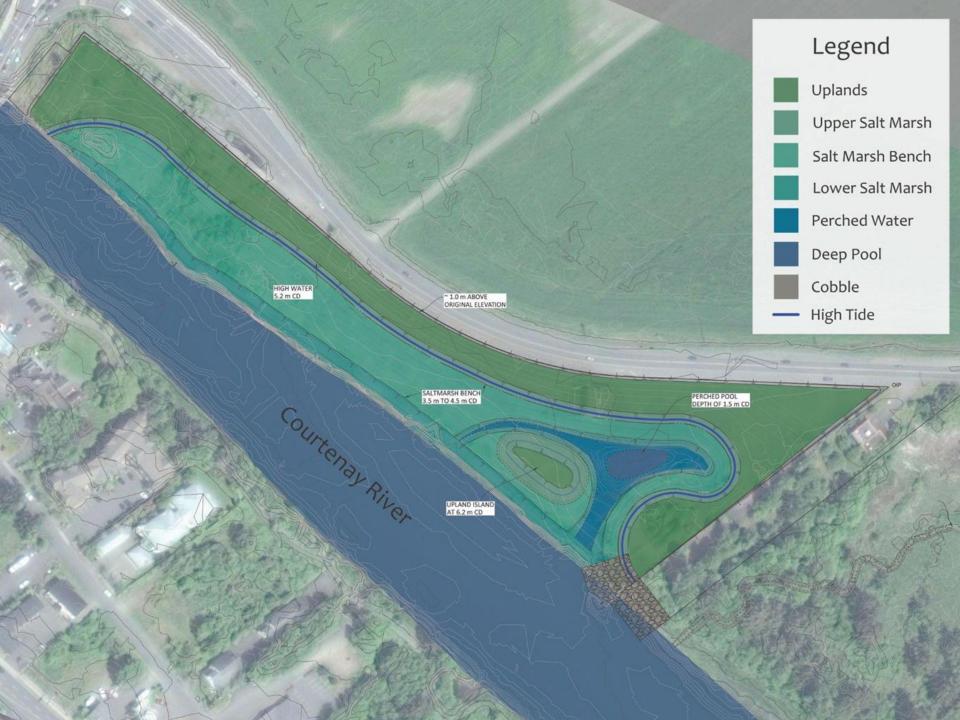
- Reached the final fundraising goal at the end of 2020
- Land transfer was executed in February of 2021
- Project Watershed holds the land in trust for our two partners,
 KFN and CoC





Design Process & Modelling







KUS-KUS-SUM RESTORED



Sweet gale, hardhack

Tufted hair grass, Springbank clover, meadow barley, sweet scented bedstraw

Henderson's checked mallow, potentilla, aster

/ Lyngbyei sedge

Sea milkwort, arctic rush, Salicomia sp., Glaux sp., Triglochin sp.



HIGH TIDE

COURTENAY RIVER

SALTMARSH

UPLAND



Restoration Phasing

- 3 Key Phases
 - Hard Surface Removal
 - Concrete and asphalt removal, crushing and repurposing
 - Recontouring/earthworks & Revegetation
 - Excavation
 - Soils removal
 - Topsoils/compost amendment
 - Native species planting
 - Steelpiling Wall Removal
 - Next step removal via barge
 - Recycling of sheet piles





WATER SHED Phase I: Unpaving



WATER SHED Metal Recycling





Concrete Recycling









WATER SHED Phase II: Recontouring







WATER SHED King Tides & Flooding





WATER SHED King Tides & Flooding





Phase III: Removing the Wall



- Working with DFO, Current Environmental, NHC, and qualified contractors on best removal methods
- Winter removal via barge with vibrating arm
- Requisite permits (in process)
- CEMP measures: sound habituation and reduction, turbidity and erosion control measures

WATER SHED Key Works in 2023/2024

- Maintenance of turbidity and erosion control structures
- Continued regrading of site
- Soils testing, sorting, and off-site removal
- Ecological and environmental monitoring along with archeological monitoring
- Re-vegetation with native species (tidal marsh and upland riparian)
- Installation of armouring and riprap (at south and north ends)
- Initial investigation and planning of steel-piling wall removal
- Continued collaboration on final site planning for access, and rematriation to KFN



Construction & Environmental Management Plan

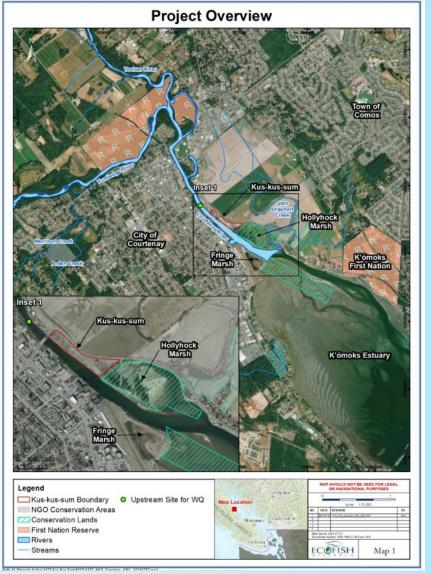
- Machine maintenance and monitoring
- Spill management
- Turbidity and erosion control
- Water quality monitoring
- Soils testing
- Work timing
- Dust suppression





Ecological/Restoration Monitoring

- Using Hollyhock Flats
 Conservation Areas as reference site
- Comparing a variety of parameters: vegetation establishment/communities/div ersity, water quality, fish use, bird use, soil quality, blue carbon
- Baseline monitoring last year and this year at Hollyhock
- Monitoring at KKS for at least five years for many parameters, more if possible





Kus-kus-sum Partner Group

- Meets once a month
- Appointed staff and elected officials from both partner groups
- Provide project updates, discuss relevant topics and future planning
- Great platform for solutions-based thinking and collaboration





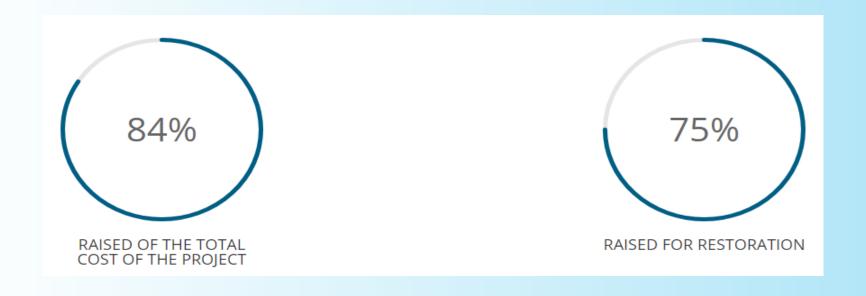
Funding Strategy

- Multi-tiered
- Community fundraising, business donors, grants, and direct gives (from Province), unique events land acquisition
- Grants, community fundraising, business donors, event fundraising – restoration
- Leveraged partnership with KFN to acquire initial funds without match, leveraged acquired funds to obtain substantial grants requiring match
- Very diverse granting and reporting





Funds Raised to Date





Future of the Site

- Rematriation of land to KFN
- Conservation covenant
- Monitoring, management and traditional harvest



