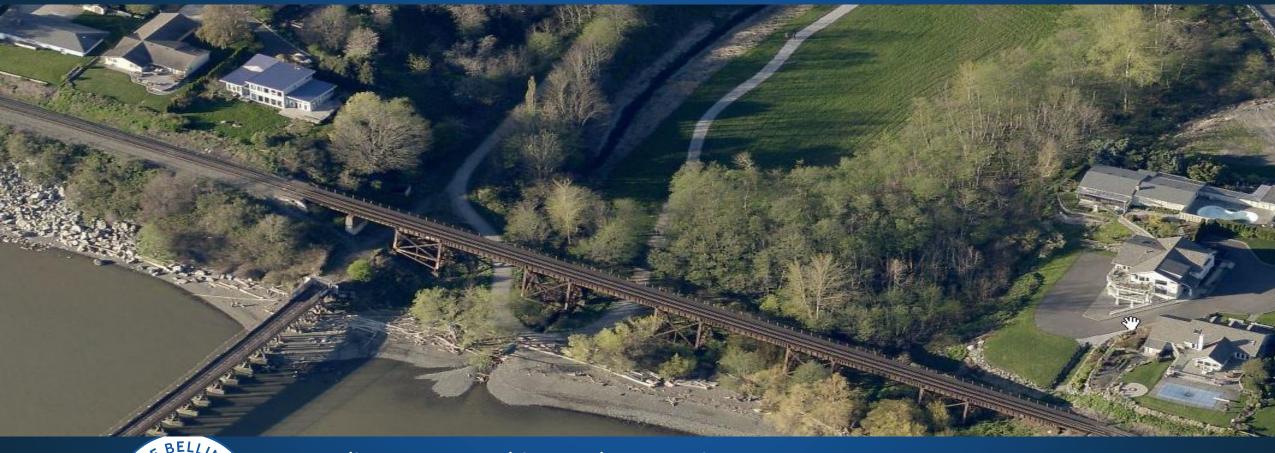
Little Squalicum Estuary

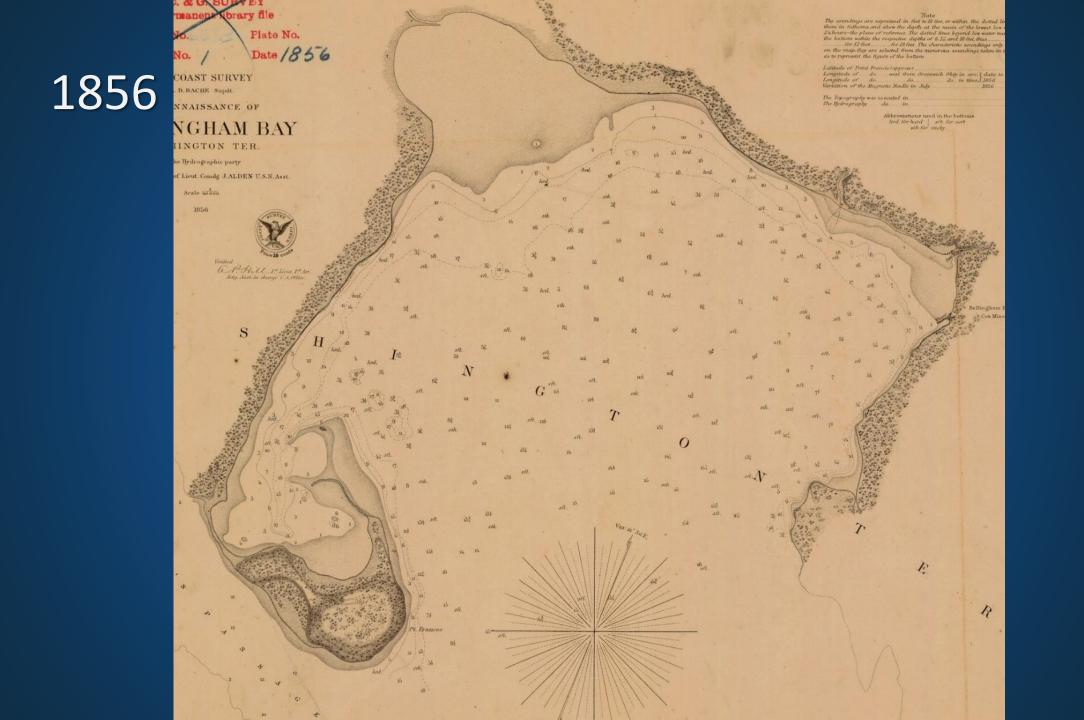


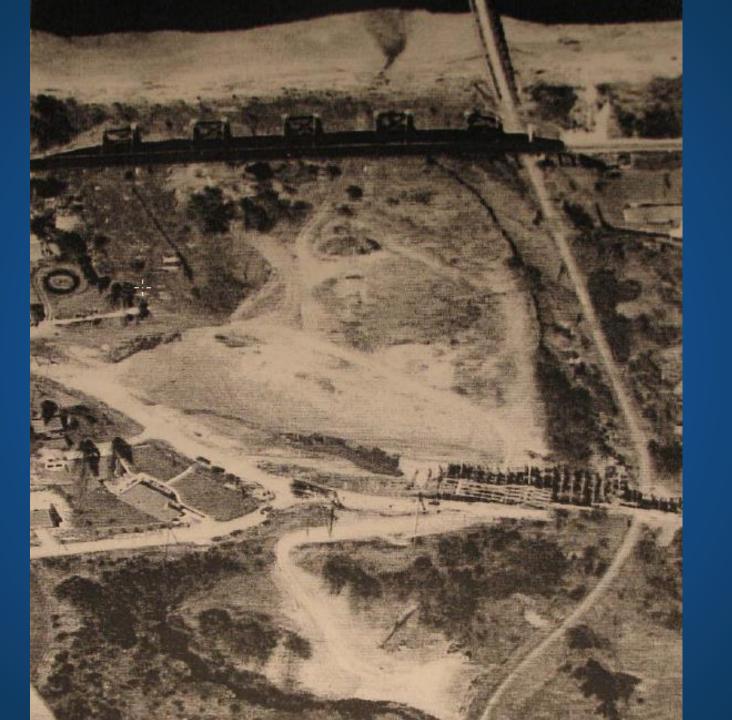
Analiese Burns, Habitat and Restoration Manager Bellingham Public Works, Natural Resources Division (360) 778–7968 acburns@cob.org

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Location











Project Goals

Goal 1

 Restore lost estuarine wetland habitat near the Nooksack River mouth that can serve as juvenile salmon rearing habitat for ESA-listed Chinook salmon. Restoration will also benefit ESA-listed Southern Resident Killer Whale.

Goal 2

Enhance sediment supply and forage fish spawning processes.

Goal 3

Enhance wetland water quality function and remove contaminated soils.

Project Elements LITTLE SOUALICUM PARK LITTLE NEW LITTLE SQUALICUM SQUALICUM CREEK REALIGNMENT AND CREEK VEGETATION ENHANCEMENT UP-STREAM **EXTENT OF** PROJECT LINEAR FEET OF SHORELINE 1,300 FT NEW LITTLE SQUALICUM-ESTUARY AND VEGETATION ENHANCEMENT beach nourishment BNSF RR TRACKS for forage fish habitat 2.4 acres Chinook NEW LOCATION OF rearing habitat LITTLE SQUALICUM CREEK created acres noreline NEW OUTLET OF LITTLE SQUALICUM revegetated **ESTUARY DECOMMISSION CURRENT CULVERT**



Landowner Permission

This project would not be possible without the partnership of landowners within the project area:

- Lehigh Northwest Cement Company
- Port of Bellingham,
- Whatcom County, BNSF, and
- City of Bellingham

Funding

- City of Bellingham (majority funder)
- Washington Department of Ecology Centennial Clean Water Program
- Washington Department of Ecology One-Time Grant Program
- WA State Aquatic Lands Enhancement Account Grant Program (ALEA)
- WA State Estuary and Salmon Restoration Program (ESRP)
- US Fish and Wildlife Service National Coastal Wetland Conservation Grant Program
- Port of Bellingham
- Whatcom County
- Nooksack Salmon Enhancement Association (NSEA)

Process To Date



Construction

Began in 2022

\$3,474,179.48

Glacier Environmental Services

Design by Coastal Geologic Services

with support from Aspect Consulting, Jones Engineers, Northwest Ecological Services, Pacific Surveying and Engineering and Washington Conservation Corps









Community Work Party – January 14, 2023



















Before After



Before After



Before After





Final Statistics

- \$6.1M total cost (design + construction)
- 4.85 acres coastal restoration, including
 - 2.4-acre estuary
 - 32,000 CY excavation
 - 10,000 CY beach nourishment for forage fish
 - 200 CY debris removal
 - ~20,000 plants installed
 - New pedestrian bridge

Next Steps

Post-construction monitoring

| SCHEDULE | YO | Y1 | Y2 | Y3 | Y5 |
|---------------------------------|----|----|----|-----------|-----------|
| Monitoring Tasks | | | | | |
| Salinity Measurements | X | X | Х | X | X |
| Photo monitoring | X | X | X | X | X |
| Snorkel Surveys | | X | X | Х | х |
| Riparian & Estuarine Vegetation | | X | X | X | X |
| Visual Inspections | X | X | X | X | |
| Forage Fish Surveys * | X | | | | |
| Annual Report | | Х | Х | Х | X |

^{*} Whatcom MRC may conduct additional surveys

Thank You!

Funded By:











Recreation and Conservation Funding Board

ALEA Grant Program







Constructed By:





Prime Design Consultant:



Landowners:

City of Bellingham
Port of Bellingham
Whatcom County
BNSF
Lehigh Northwest Cement Co

Questions?



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