



Western Washington University  
**Western CEDAR**

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Salish Sea Ecosystem Conference

2018 Salish Sea Ecosystem Conference  
(Seattle, Wash.)

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Apr 5th, 10:00 AM - 10:15 AM

## **New Brighton shoreline habitat restoration project**

Mike Tranmer

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Tranmer, Mike, "New Brighton shoreline habitat restoration project" (2018). *Salish Sea Ecosystem Conference*. 120.

<https://cedar.wwu.edu/ssec/2018ssec/allsessions/120>

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# New Brighton Shoreline Habitat Restoration Project

*Mike Tranmer, Moffatt & Nichol*

Salish Sea Ecosystem Conference 2018  
April 5<sup>th</sup>, 2018  
Seattle, WA.



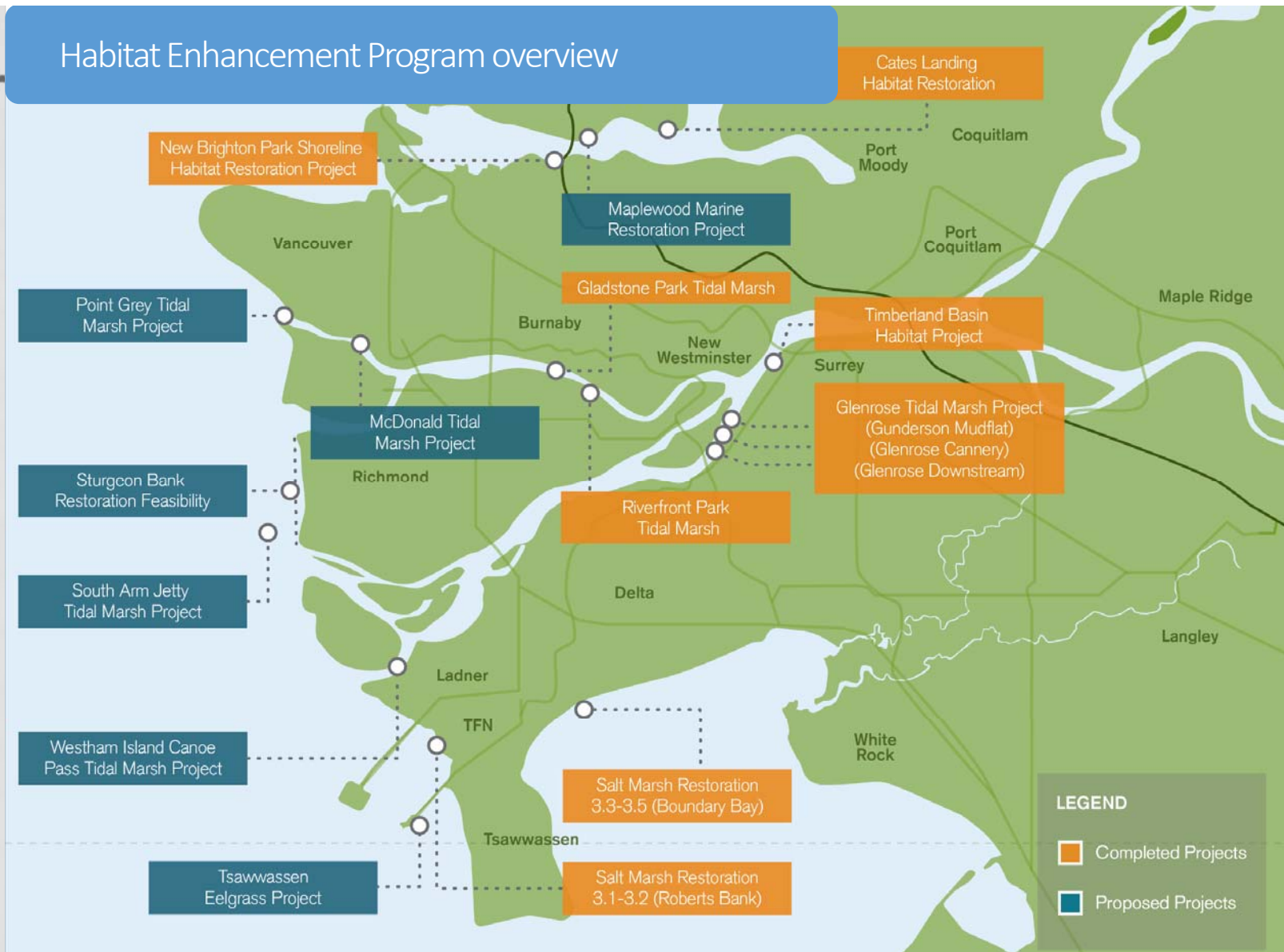
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## Habitat Enhancement Program overview



- **Goals:**
  - Create
  - Enhance
  - Restore
  - Fish & Wildlife habitat
- **Construction**
  - Start: Fall 2016
  - End: Summer 2017
- **Work:**
  - Restore natural shoreline
  - Excavate to create a lagoon
  - Intertidal and riparian planting
  - Upgraded park features
  - Connect to Hastings Creek
  - Cut/fill balance

# Project Team

- Owner



- Contractor



Musqueam  
Indian  
Band



Tseil-  
Waututh  
Nation



Squamish  
Nation

- Design



GL Williams  
& Associates Ltd.  
Coastal and Estuarine Habitat

connect  
LANDSCAPE ARCHITECTURE



GOLDER

- Environmental



## Restore Natural Shoreline

1961

Natural  
large  
intertidal

Industry  
present



## Restore Natural Shoreline

1973

Fill Site

Expanded  
park area

Engineered  
shoreline

Growing  
industry



# Excavate to Create a Lagoon

Challenge  
# 1

Wet  
Weather

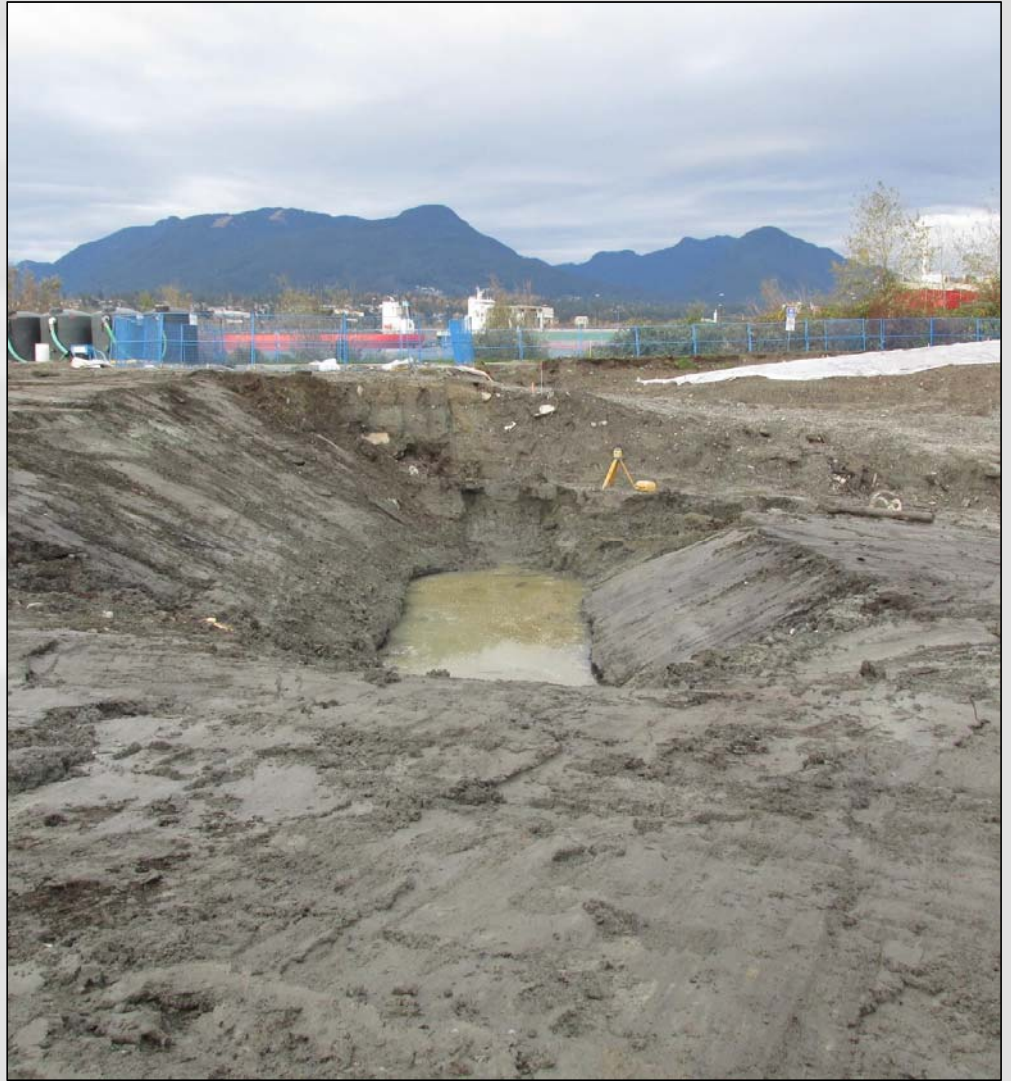
Fill vs  
native  
material

Survey  
challenges!









## Excavate to Create a Lagoon

November  
2016 =  
tidal  
influence  
restored

Win!





# Intertidal and Riparian Plantings

Challenge  
# 2

Geese ☹️

Geese  
love newly  
planted  
Salt marsh  
plants

Riparian  
plants OK



# Intertidal and Riparian Plantings

Challenge  
# 2

Solution:  
Fencing,  
ribbons/  
tape &  
rope









# Intertidal and Riparian Plantings

Challenge  
# 3

Dry  
Weather

Temp.  
watering  
installed



## Upgraded Park Features

Off-  
Leash  
dog area



## Upgraded Park Features

Off-  
Leash  
dog area



## Upgraded Park Features

View  
decks



## Connect to Hastings Creek

Connect to  
Hastings  
Park  
greenway

Cobble  
lined creek

Riparian  
plantings

Boulders  
and log  
features



## Cut/Fill Balance

Keep budget in check

West fill area

East 'big' berm

Schedule – open for Summer 2017

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# Construction Progress

September  
2016

Pre-  
construction



# Construction Progress

September  
2016

Construction  
Starts





# Construction Progress

January  
2017

During  
construction



# Construction Progress

September  
2017

Post  
construction



# Construction Progress

December  
2017

Post  
Construction





Goals:

Create

Enhance

Restore

Fish & Wildlife

Habitat



Juvenile Chum  
Salmon

---



# Shore birds

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# Salmon get a place to rest and eat on tidal wetland at Burrard Inlet

Kevin Griffin / Vancouver Sun  
SEPTEMBER 24, 2017 04:40 AM

Like 0 | Facebook | Twitter | Email | Print



# New wetland at Vancouver park already seeing salmon fry

Jessica Kerr / Vancouver Courier  
SEPTEMBER 22, 2017 04:02 PM

Like 225 | Facebook | Twitter | Email | Print



# New Brighton Park unveiled as a way for people to connect with nature and local First Nations



news Vancouver's New Brighton Park salt marsh now complete

# Vancouver's New Brighton Park salt marsh now complete

The \$3.5 million project reshapes Burrard Inlet's waterfront at New Brighton Park  
Rafferty Baker - CBC News · Posted: Sep 21, 2017 7:31 PM PT | Last Updated: September 21, 2017

Facebook | Twitter | Email | LinkedIn

526 Shares



# VANCOUVER IS AWESOME

# Salmon fry found in newly constructed New Brighton Park salt marsh

Jessica Kerr - Vancouver Courier  
by K.S.A. - September 23, 2017

Share on Facebook | Tweet on Twitter | Google+ | Print



FROM THE BROADCAST AND ONLINE JOURNALISM PROGRAM AT BCIT

← BC association launches new way of making Vancouver greener | North Shore drivers face dangerous commute on Highway 1

# New Brighton Park shoreline habitat to bring in biodiversity

Posted on September 21, 2017 by Nick Cavallo



New Brighton Park's salt marsh project was completed today. (Nicholas Cavallo/BCIT News)

In a joint effort with the Vancouver Board of Parks and Recreation, Vancouver Fraser Port

# Salmon get a place to rest and eat in New Brighton Park tidal wetland

KEVIN GRIPPIN

More from Kevin Griffin

Published on: September 21, 2017 | Last Updated: September 21, 2017 4:51 PM PDT



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TOP POSTS OF ALL TIME

- The oldest known film of Vancouver - May 16, 2016
- 10 of the BEST Road Trips to Take From Vancouver - January 6, 2015
- 8 sharks you didn't know lived in BC waters - October 30, 2014
- Secret island 50 miles from Vancouver where locals live off the grid - March 1, 2015

Org. Leadership Masters Degree - CA School of Prof. Psychology Alliant University





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