

Portland Harbor Cleanup and Restoration Overview

- The EPA and Oregon Department of Environmental Quality oversee the cleanup efforts of the Portland Harbor.
- The Portland Harbor Trustee Council oversees the restoration of the Natural Resource Damages.
- The Trustee Council consists of:
 - 5 Tribes
 - Grand Ronde
 - Nez Perce
 - Siletz
 - Umatilla
 - Warm Springs
 - NOAA
 - Oregon Department of Fish and Wildlife
 - US Department of the Interior

Portland Harbor Natural Resource Damage Assessment Overview

- Since the Trustee Council was formed in 2002, they have been actively studying and researching potentially injured natural resources within the Portland Harbor.
- During their research, they identified the following list of potentially injured natural resources.
 - **Fish**
 - Salmon
 - Lamprey
 - Sturgeon
 - **Birds**
 - Bald Eagle
 - Osprey
 - **Mammals**
 - Minks
 - **Water**
 - **Sediments**
 - **Soils**
 - **Invertebrates**

Restoration Planning

- The Trustee Council has been planning and coordinating restoration efforts since 2007
- Their geographic priorities are:
 - 1st Priority:
Superfund Study Area
 - 2nd Priority:
Broader Focus Area



Current Efforts Underway

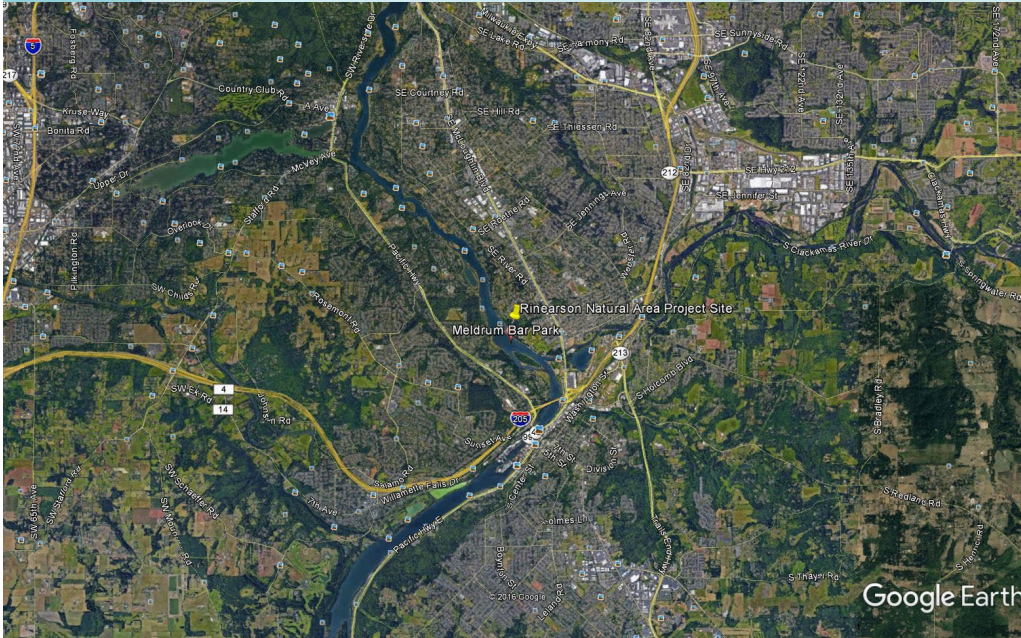
- There are currently 3 approved restoration projects within the Priority One (Superfund) site.
 - Alder Creek
 - Linnton Mill
 - PGE Harbortown Wetlands
- There is currently one approved restoration project within the Priority Two (Broader Focus) area.
 - Rinearson

Rinearson Natural Area Project

A Public-Private Portland Harbor NRD Restoration Project

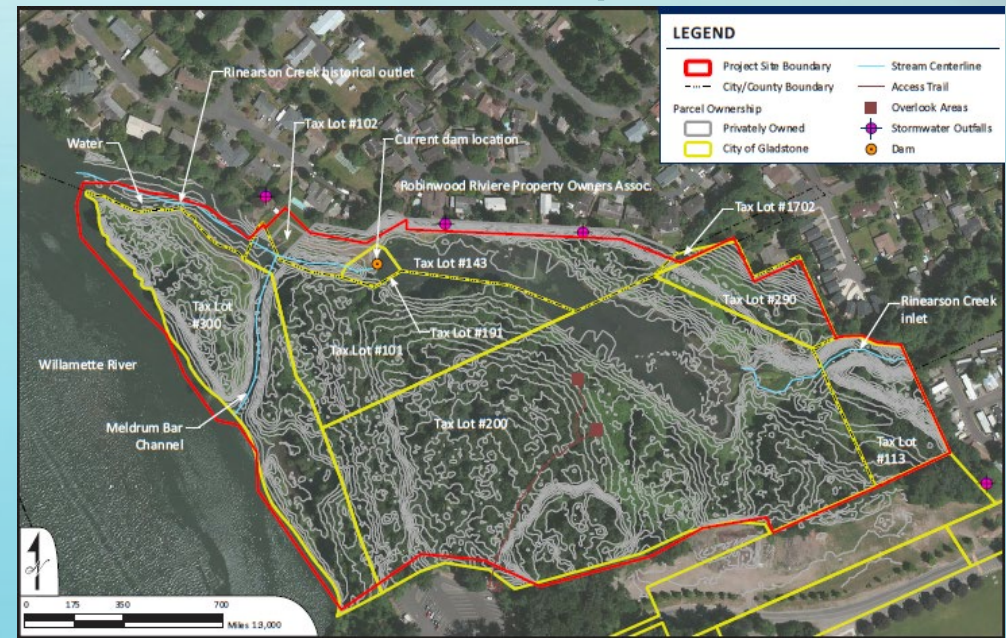
Partner	Role
Columbia Restoration Group	Project Owner / Developer
The City of Gladstone	Landowner
Robinwood Riviere Property Owners Association	Landowner
Private Homeowner	Landowner
Waterways Consulting, Inc. The Wetlands Group	Project Designer/Monitoring Environmental Consultant and Construction Contractor

Project Location

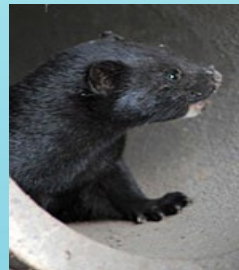
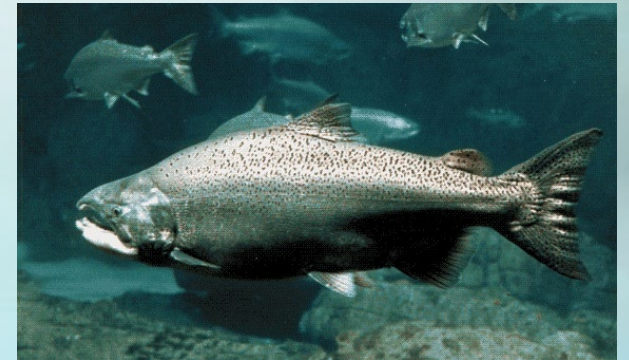
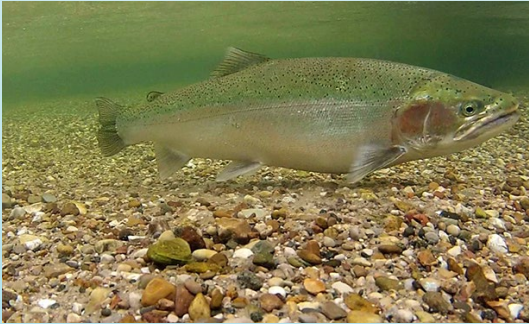


Area Map

Site Map



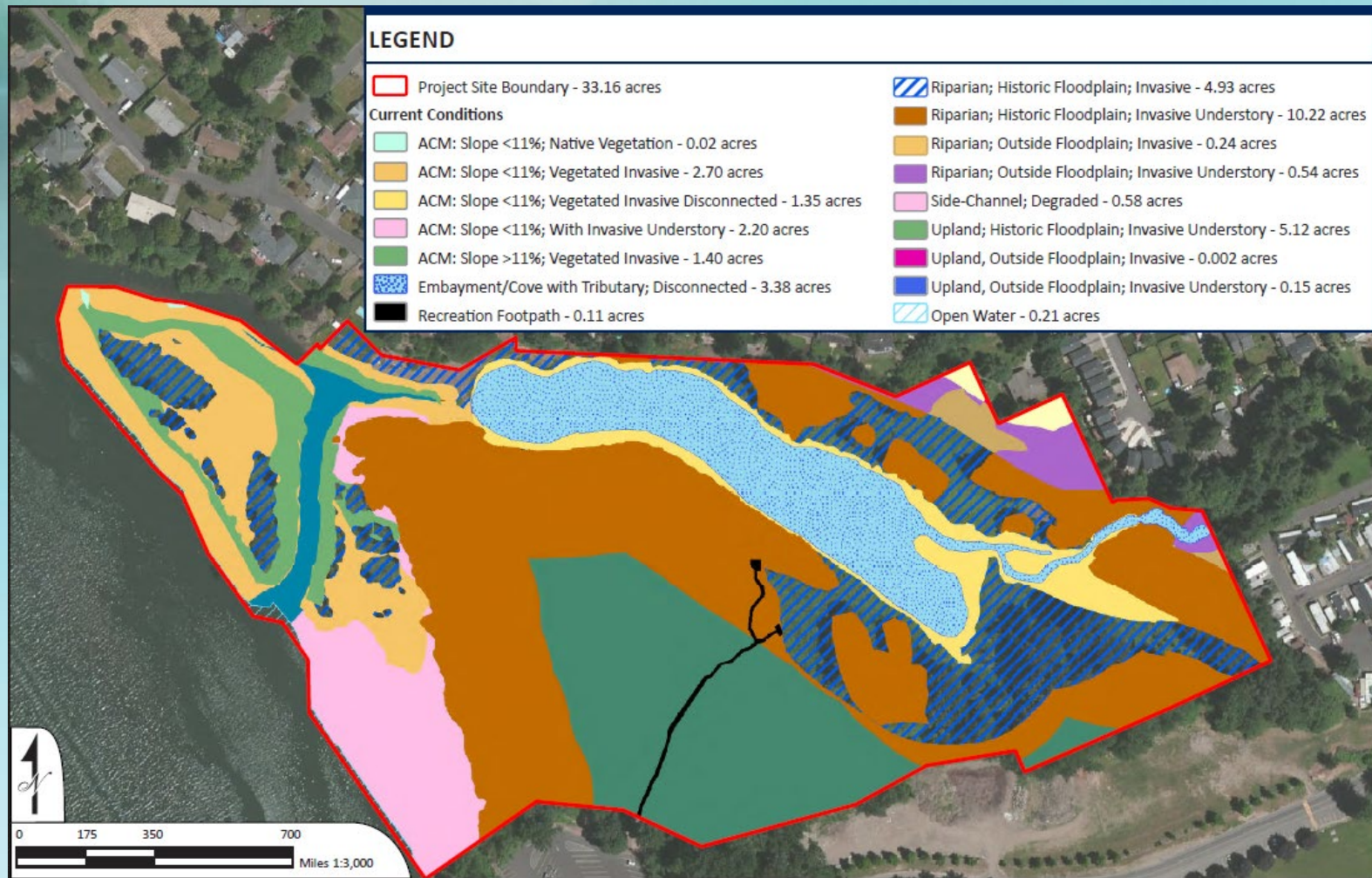
Target Species



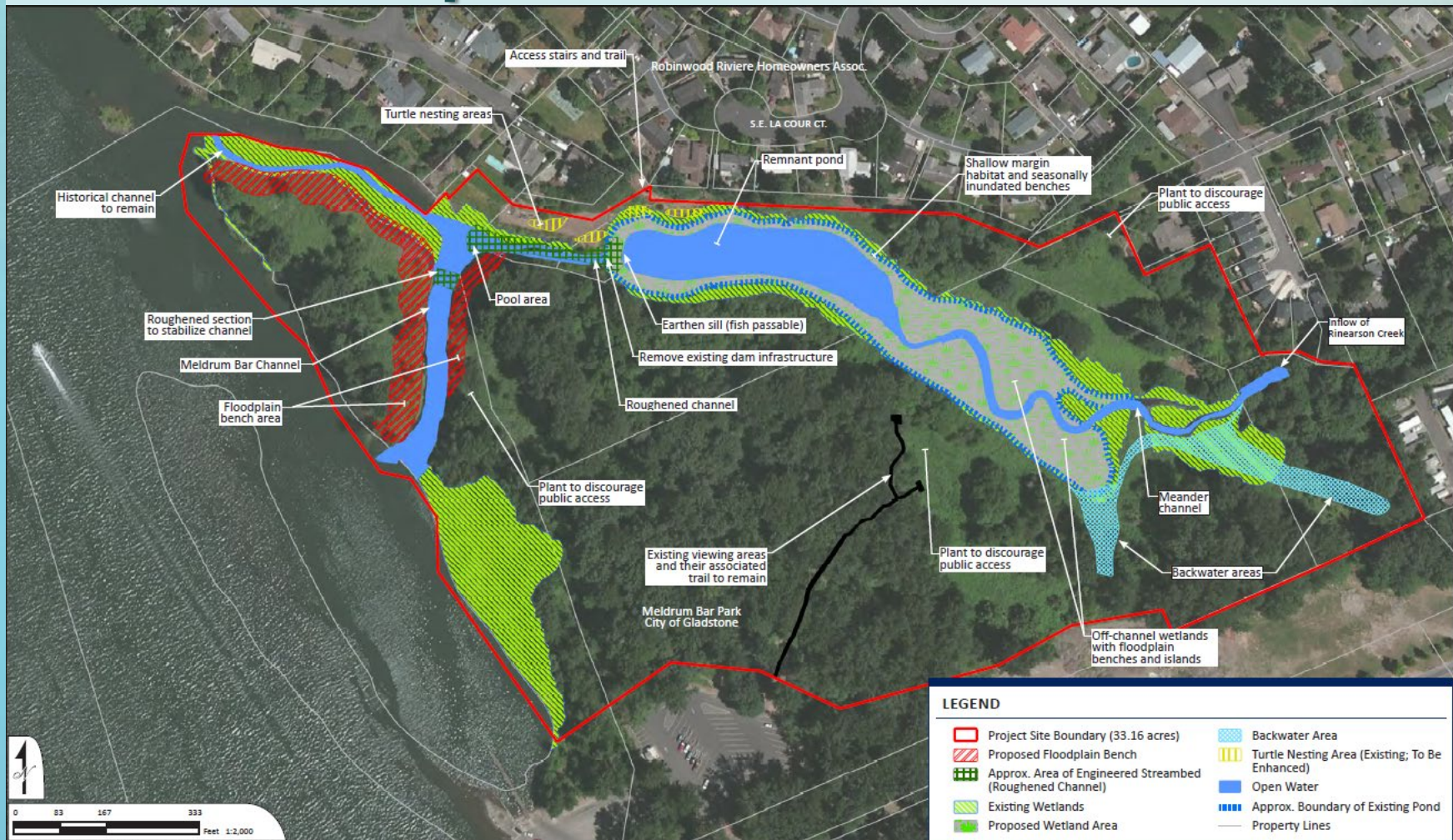
Non-Target Species



Pre-Construction Habitat



Completed Restoration



Summary of Goals

- **Goal 1 – Restore typical floodplain structure**
 - Grade the Project site to typical floodplain topographic conditions; modify existing dam; establish floodplain benches; restore Rinearson Creek channel
 - Install and retain woody structures, rock and debris habitat piles.
 - Provide fish passage
- **Goal 2 – Restore native vegetation communities**
 - Control invasive vegetation throughout the project site
 - Establish native-dominated vegetation in the PEM, PSS, PFO and upland areas
- **Goal 3 – Restore typical hydrologic conditions**
 - Restore floodplain interaction between Willamette River and areas upstream of the remnant dam
 - Increase area inundated by regularly recurring flood events in the Willamette River
- **Goal 4 – Improve water quality over existing conditions by improving water temperature, dissolved oxygen, and conductivity in aquatic habitats**
- **Goal 5- Increase use by fish and wildlife species by improving access and improving habitat quality**

Thank you for this opportunity!

Evan Ocheltree

Columbia Restoration Group

Evan@ColumbiaRestorationGroup.com

(804) 330-8092

Gary Howard

Columbia Restoration Group

Gary@ColumbiaRestorationGroup.com

(208) 573-4866

Rinearson Project Photos

Pre-Restoration Photos – A Reminder of What Once Was



Pre-Restoration Photos – A Reminder of What Once Was (Cont'd)



Post Restoration – What is and What Shall Be: The Channel



Post Restoration – What is and What Shall Be: The Pond (and Beaver Activity)



Post Restoration – What is and What Shall Be: Moving Up Creek



Post Restoration – What is and What Shall Be: Moving Up Creek



Post Restoration – What is and What Shall Be: Looking Back at the Pond



Post Restoration – What is and What Shall Be: Rinearson Creek Outlet



Post Restoration – What is and What Shall Be: Rinearson Creek Outlet



Post Restoration – What is and What Shall Be: Habitat Structures



What it is now

