



Stephens Creek Confluence Habitat Enhancement Project



ENVIRONMENTAL SERVICES
CITY OF PORTLAND

working for clean rivers



**PORTLAND
PARKS & RECREATION**

Healthy Parks, Healthy Portland

Stephens Creek Confluence Habitat Enhancement Project

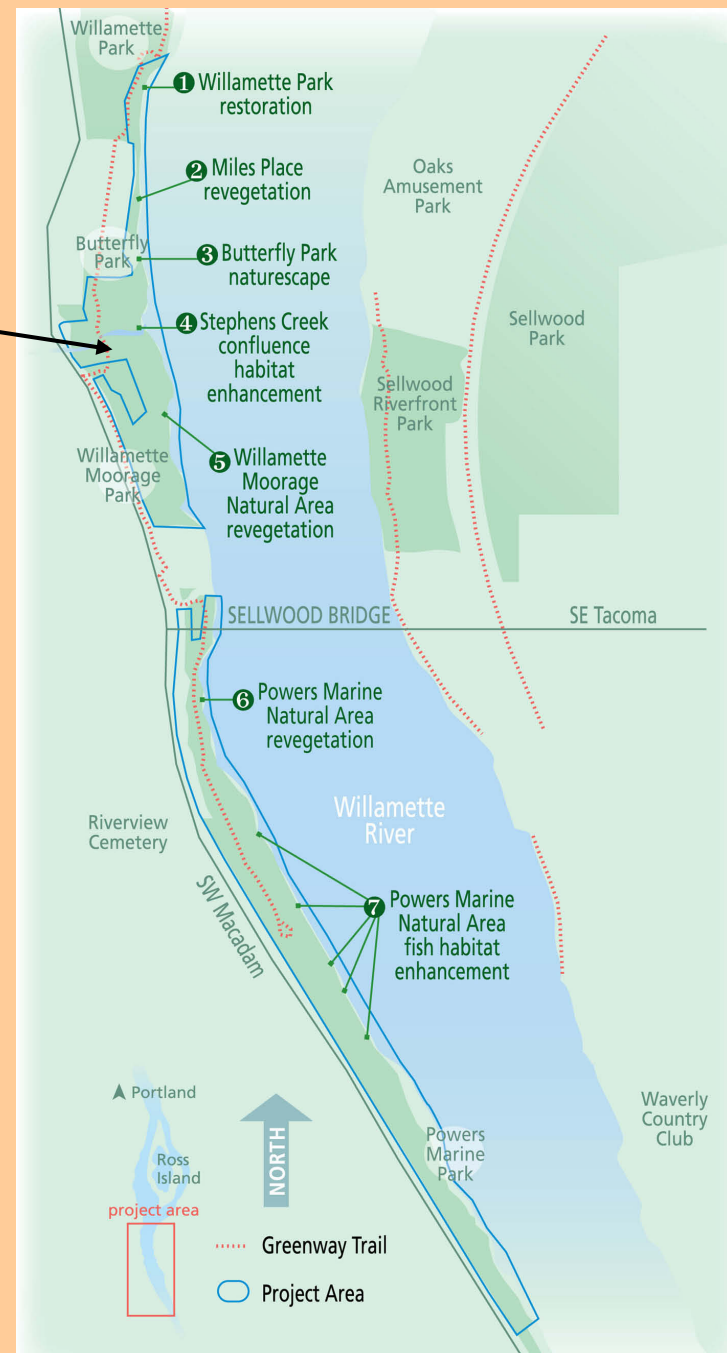
- Subwatershed Assessment
- Off-channel Habitat
- Coho, Chinook, steelhead, and lamprey (2003 ODFW study)



Willamette
Moorage Natural
Area
3.5 Acres

South Portland
Riverbank Parks
35 acres
(7000 linear ft)

Portland Parks
and Recreation





Site Conditions Stephens Creek



80 feet of exposed pipe



Site Conditions

Willamette River



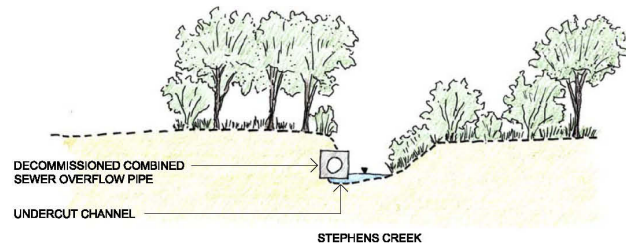
Project Objectives

- Reconnect floodplain
- Restore banks
- Enhance fish and wildlife habitat
 - Increase shoreline complexity/roughness
 - Revegetation
 - Snags and brush piles
- Create off-channel habitat

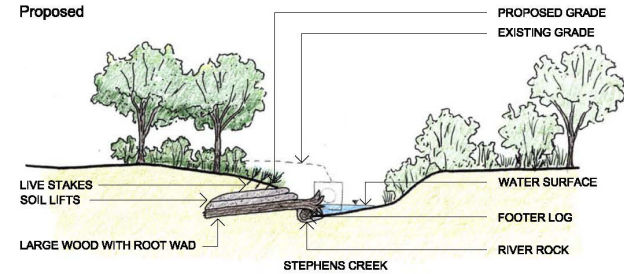


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Existing

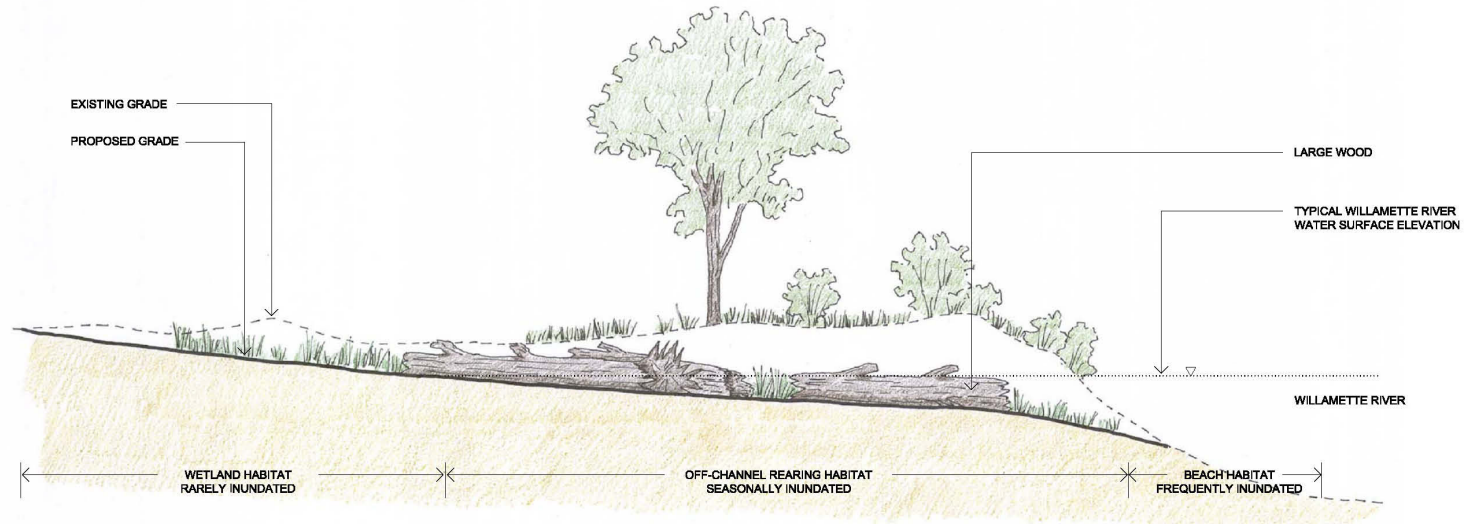


Proposed



Stephens Creek Cross Section

Scale 1"=10'



Proposed Remnant Channel Profile

Scale 1"=10'

Stephens Creek Confluence Habitat Enhancement Project

Schedule and Funding

- **Jan-June 2007**
pre-design/alt. anal
- **June-Sept 2007**
30-60% design
- **Sept 07-April 08**
Final design
- **May – July 08**
Bid/Contractor selection
- **August 08 – January 09**
Construction
- **Feb 2009**
Plant installation
- **2009 – 2013 Monitoring**
- **~ 1 million**
- **Watershed Investment Funds (~250K)**
- **CIP (~300K)**
- **Grants about (~500K)**







CSO removal north bank Stephens Creek





CSO removal and
soil lift installation
at the confluence



CSO removal and large wood installation on the Willamette



Remnant channel excavation



Many Thanks to All Partners!

Project Team: Ry Thompson, Paul Ketcham, Cindy Studebaker, Holly Walla, Matt Burlin, Anne Nelson, Greg Savage, Lloyd Stauning, Scott Clement, Darian Santner, Lynn Barlow, Mark Wilson, Taryn Meyer, Jim Wood, Vigil-Agrimis, Inc., Nick Naval, Rick McCoy, Alicia Rawlins, Andi Gresh and others

Portland Parks and Recreation

South Portland Riverbank Partners

Funders: BES Watershed Investment fund and Capital Projects, Oregon Watershed Enhancement Board, Lower Columbia River Estuary Partnership (funds from Bonneville Power Administration), The Nature Conservancy (funds from Portland General Electric), Port of Portland, FishAmerica Foundation, NOAA Restoration Center, and American Sportfishing Association

A scenic view of a riverbank. The foreground shows a calm river reflecting the sky and trees. The middle ground features a sandy bank with several fallen tree trunks and logs. The background is a dense forest of trees with yellow and green foliage, suggesting autumn. A utility tower is visible on the far left.

Join us for a site tour!

Riverfest

Friday, August 21

Departs at 5:30

Southern end of Willamette Park