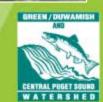
### Green/Duwamish & Central Puget Sound Watershed (WRIA 9)



Matt Goehring, WRIA 9 Planning & Technical Coordinator



# Agenda

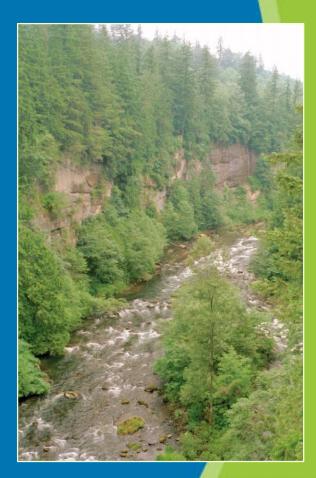
#### Lead Entity Structure

Salmon Habitat Plan

Subwatershed overviews

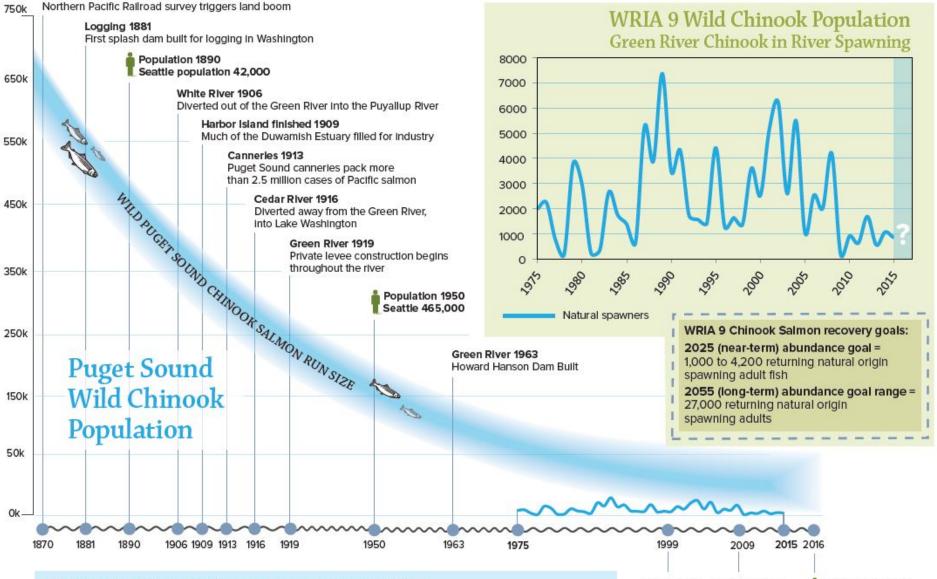
- Stressors
- Priorities and example projects

### Climate Change





## Chinook Salmon Recovery Timeline



#### Why does the data on salmon abundance begin to improve in 1975?

Rallroad 1870

The quality of data on annual salmon population runs improves starting in 1975, when the Washington Department of Fisheries (predecessor to Department of Fish and Wildlife) initiated data collection in response to the federal court mandate to develop and share annual abundance of salmon returning to individual rivers in Puget Sound.

 Puget Sound
 Lowest number
 Population 2016

 Chinook
 of natural origin
 Seattle 689,000

 listed as
 spawners (182 fish)
 species

 threatened
 recorded in the
 Green River

## Lead Entity Background

- Community-based approach to salmon recovery
  - Technical committee
  - Citizen committee
- Regional recovery strategies that prioritize restoration and protection needs



 Coordinate project development and funding with project sponsors

- Access SRFB, PSAR and EPA grant funding



## WRIA 9 Watershed Ecosystem Forum

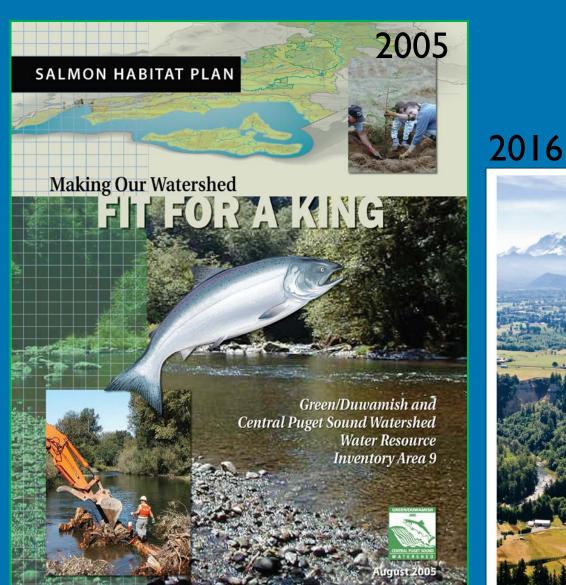


- Strong regional collaboration and governance
- Leveraging individual jurisdiction dollars for watershed benefits



# Salmon Habitat Plan

### 2014



#### Duwamish Blueprint

Salmon Habitat in the Duwamish Transition Zone



October 14, 2016

Duwamish Blueprint Working Group November 6, 2014



RE-GREEN THE GREEN: Riparian Revegetation Strategy for the Green/Duwamish and Central Puget Sound Watershed (WRIA 9)



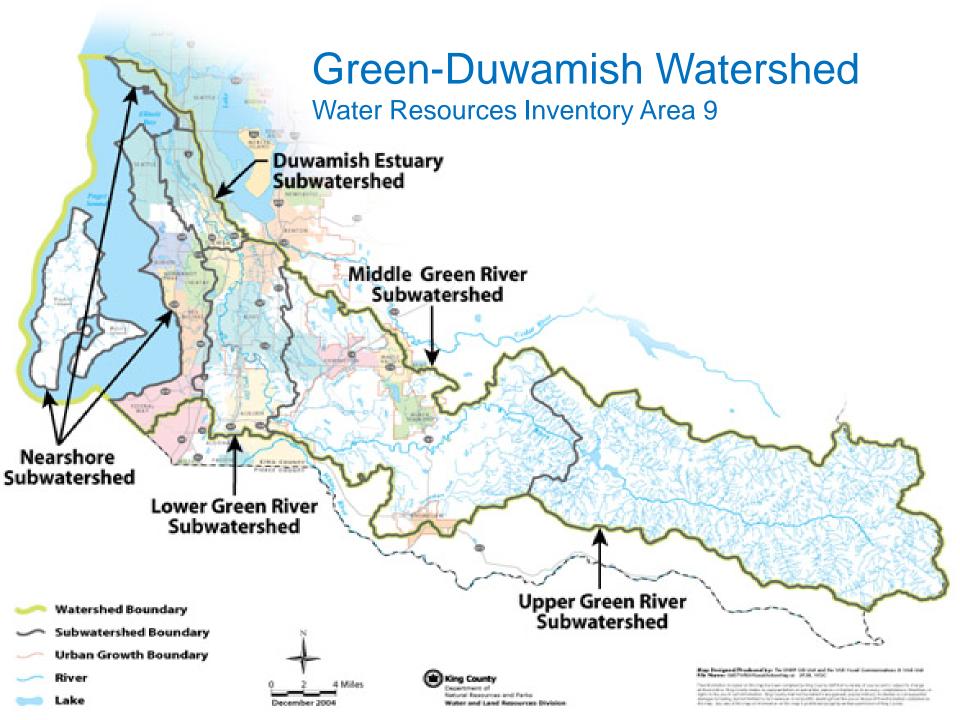
WRIA 9 Riparian Revegetation Work Group



reen/Duwamish and entral Puget Sound Vatershed, WRIA 9

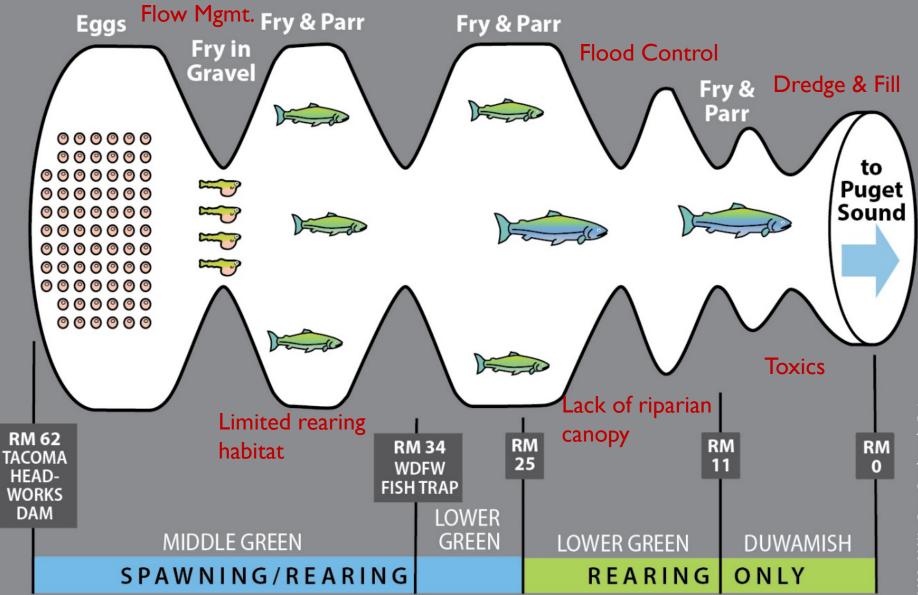




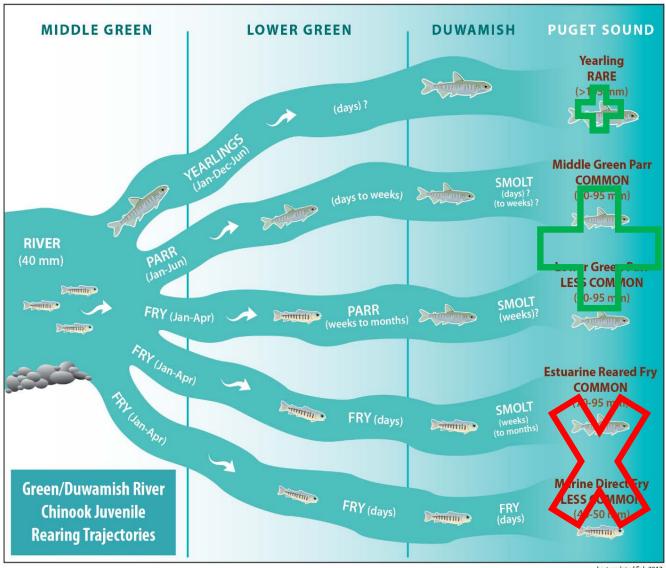




# HABITAT BOTTLENECKS



### **Emerging Science: Diversity & Productivity**



EREEN / DUWAMISH

Last updated Feb 2017

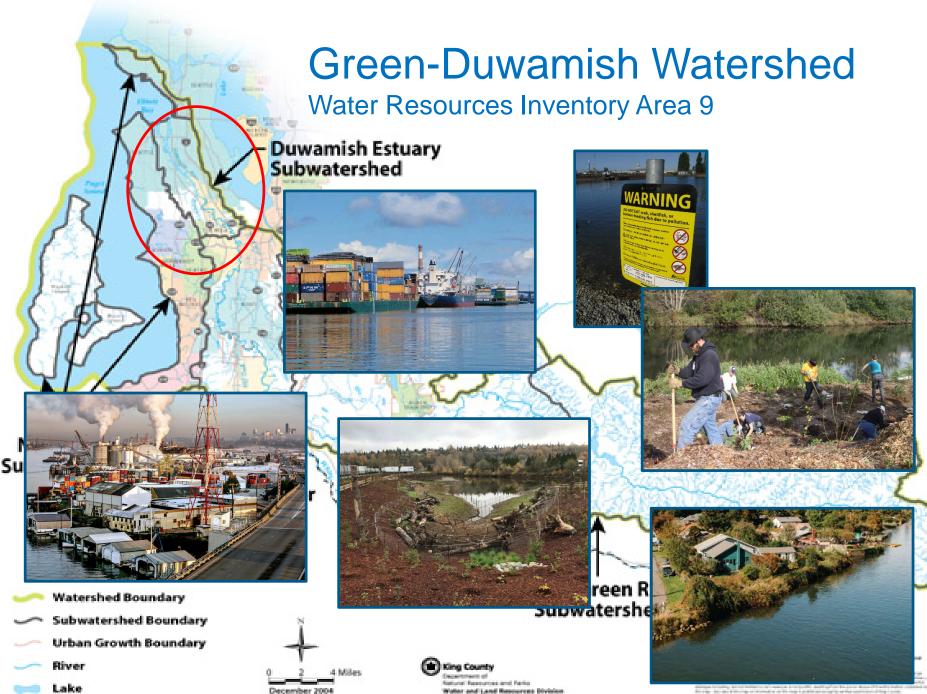
## **Green-Duwamish Watershed**

Water Resources Inventory Area 9



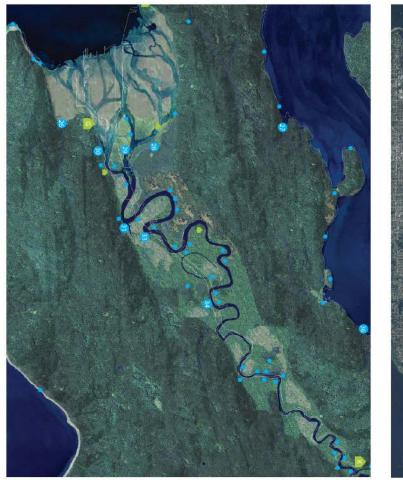
### Nearshore: Piner Point, Vashon/Maury Island (\$2.7M)





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### **Duwamish River Sub-Watershed**





Mid-1800s

Today

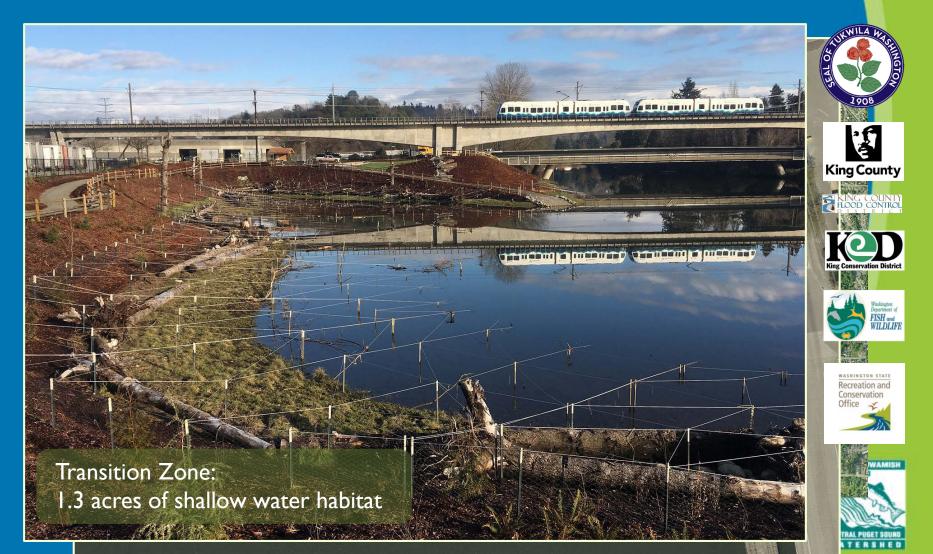


#### Matt Goehring, WRIA 9 Planning & Technical Coordinator

**Duwamish Valley | South Seattle** 

The Waterlines Project

# Duwamish: Duwamish Gardens (\$4.25M)



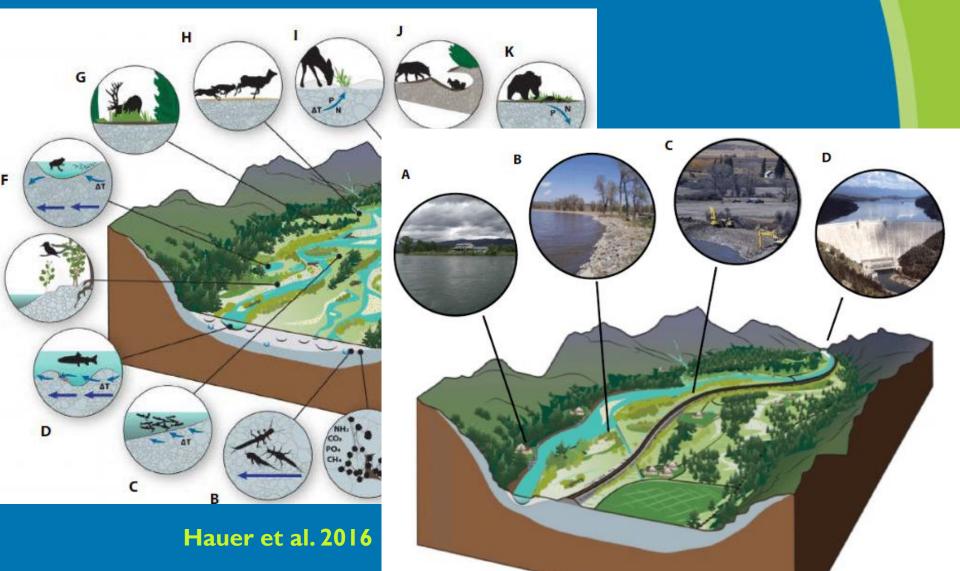


#### **Green-Duwamish Watershed** Water Resources Inventory Area 9

wan bwate Nearshore Subwatershed Lower Green River Subwatershed een ters Ging County the strength

Experiment of Record Resources and Parks Water and Land Resources Division

# **Floodplain Connectivity**



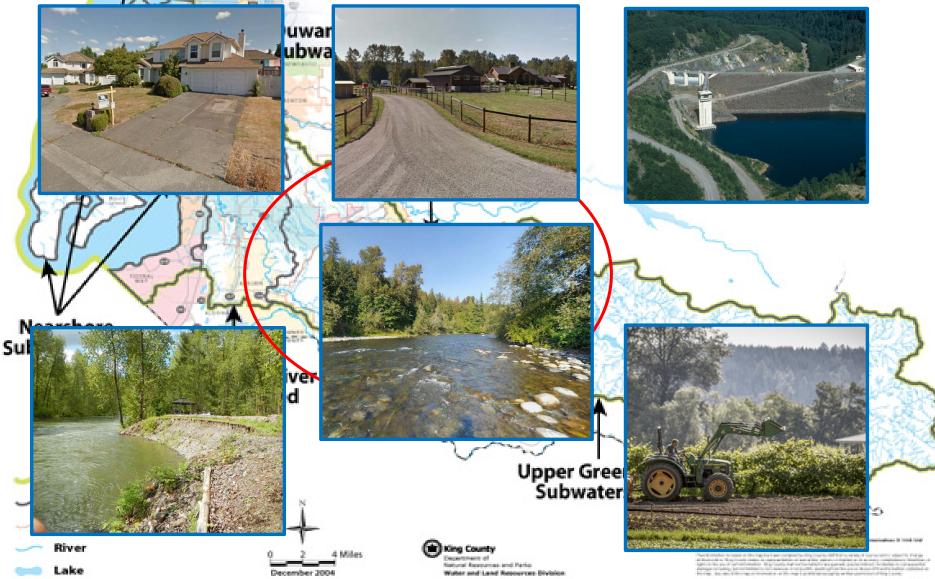
# Lower Green: Mill Creek/Leber (\$2.5M)





# **Green-Duwamish Watershed**

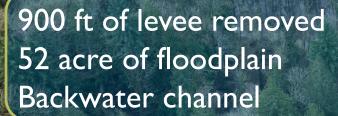
Water Resources Inventory Area 9



# Middle Green: Porter Levee Removal (\$5.4M)







Porter Concept Diagram

\*\*<del>•</del>••



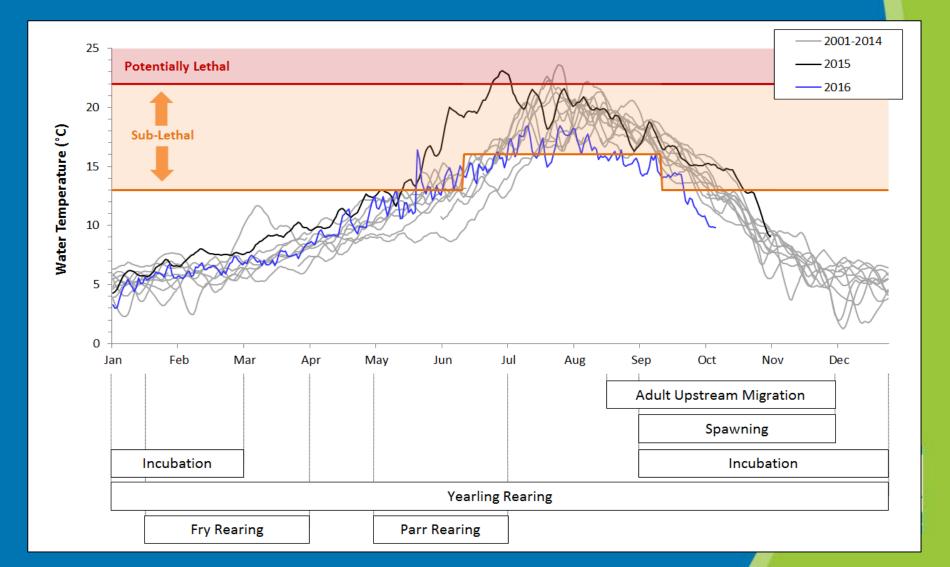
2/12/2018 02:21:29PM 24% 40



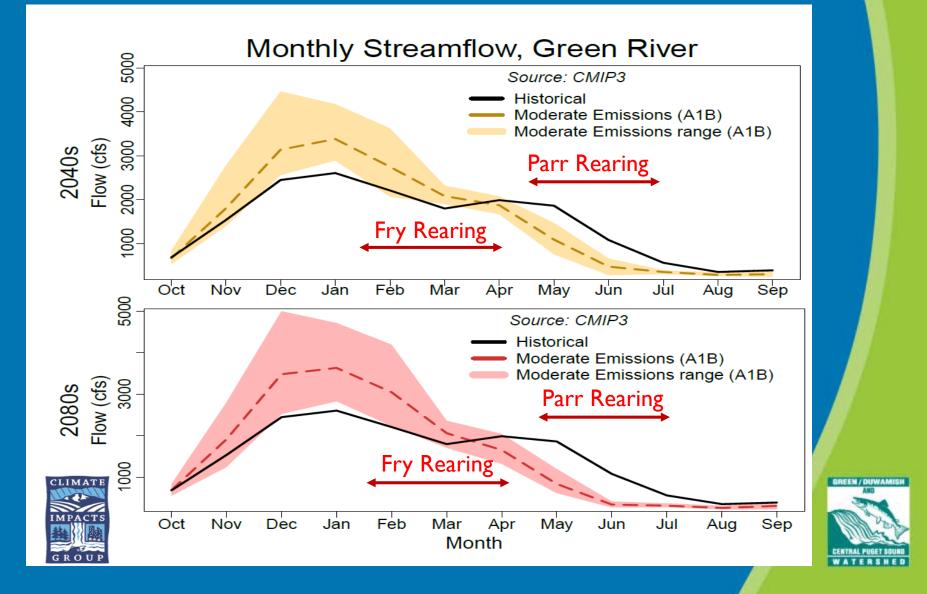
# Upper Green: Howard Hanson Dam



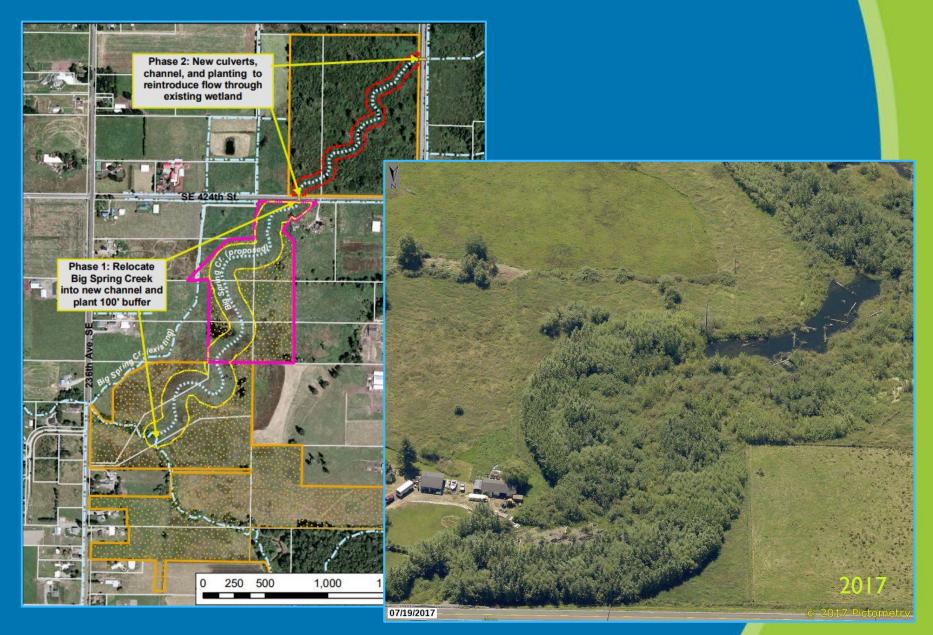
# **Climate Change Implications**



### **Climate Change Implications**



### **Big Spring Creek- Enumclaw Plateau**



### **Questions & Discussion**

#### **Protect, restore & enhance**

- Channel Complexity & Edge Habitat
- Estuarine Habitat
- Fish Passage
- Floodplain Connectivity
- Instream Flows & Cold Water Refugia
- Riparian Corridors
- Sediment & Water Quality
- Marine Shorelines

