

Annual
Report
Highlights

SNOHOMISH



CONSERVATION DISTRICT

About Us



We are a team of 30 dedicated staff, two field crews, and five elected and appointed board members from our community.



We have been working with farmers, city residents, rural and suburban landowners on a voluntary basis since 1941.



RCW 89.08: Our mission is to work cooperatively with others to promote and encourage conservation and responsible use of natural resources.



Lawns to Lettuce



Sound Horsekeeping



Sound Education



Farm Planning



Wildlife Habitat



Habitat Restoration



Rain Gardens



Natural Yard Care

129 FARMS ASSISTED

We're here to support our local farms, from large commercial operations to small urban farms, and everything in between.



Climate Impacts to Farms



Increase Resilience on Your Farm



**Ag Resilience
Fact Sheets**



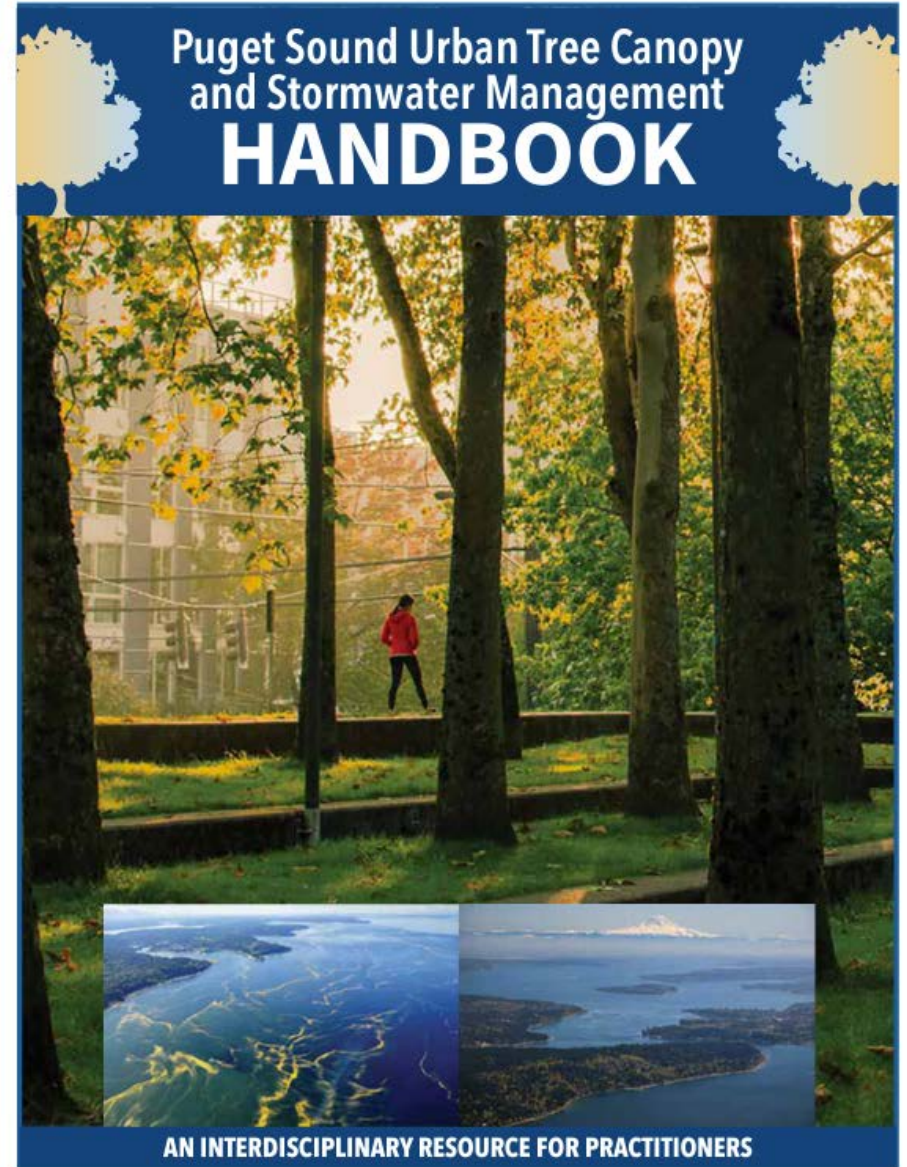
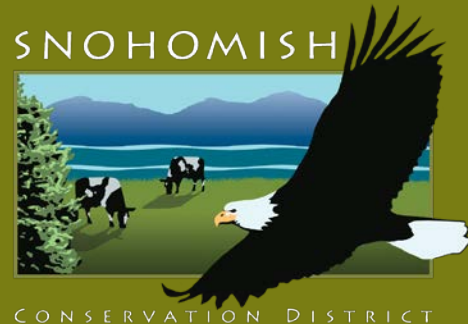
50 BEST MANAGEMENT PRACTICES INSTALLED ON FARMS

We're introducing conservation-friendly efficiencies on the farm that save time and money.

**351 ACRES OF FARMLAND
PROTECTED**

We assist landowners in
enrolling in conservation
easement programs to protect
farmland for generations to
come.

Puget Sound Urban Tree Canopy and Stormwater Management Handbook



Multiple Benefits of Urban Forests



- Water quality
- Air quality
- Noise, privacy, wind buffer
- Carbon sequestration
- Wildlife habitat biodiversity
- Mitigates heat island effect
- Livability, human health
- Community equity

<https://www.seattleweekly.com/news/will-seattle-finally-protect-its-tree-canopy/>

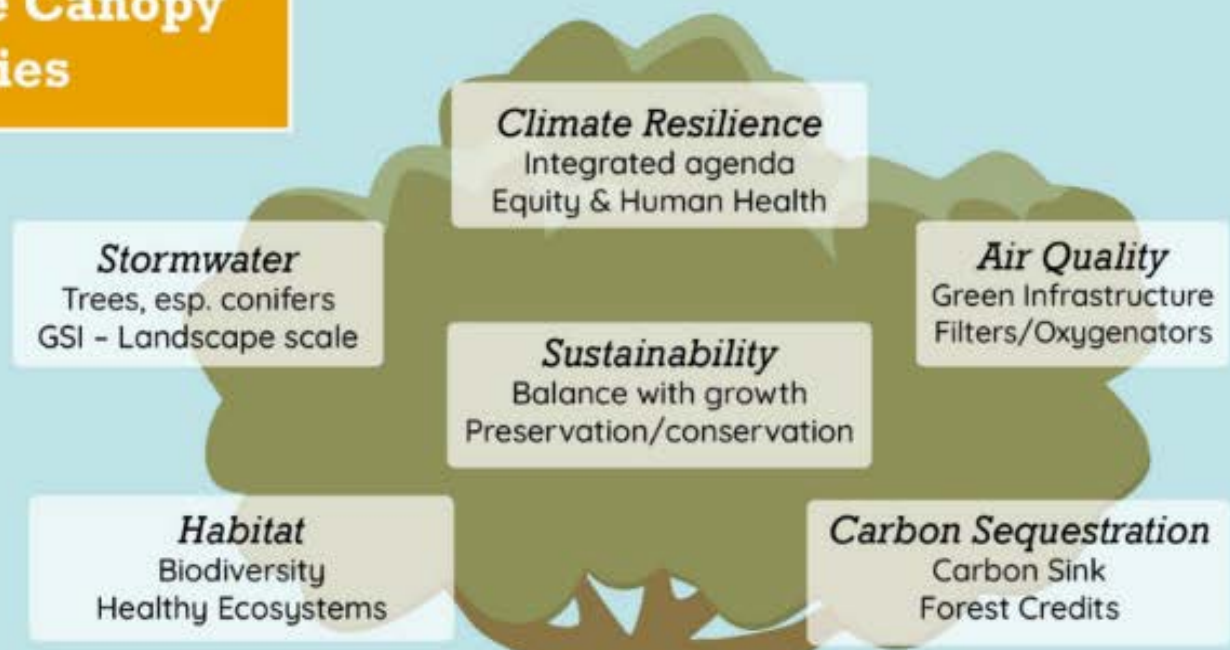
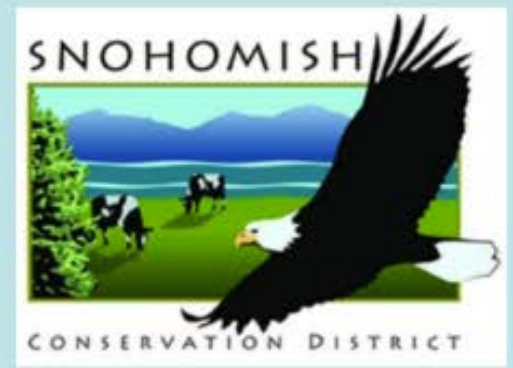
Key Finding



Increase in tree cover over impervious surfaces results in decreased runoff volumes.

Best Management Practice:
Plant trees to overhang impervious surfaces for high stormwater runoff and pollution reduction benefits

Urban Forest & Tree Canopy in City Priorities



Fertile Soil

Assess
Canopy mapping
GIS layers
Inventory

Analyze
iTree Suite
Tree Equity Index
Community Tree Map
Stormwater Heat Map

Policy/Planning
Goals/priorities
City plans
Ordinances

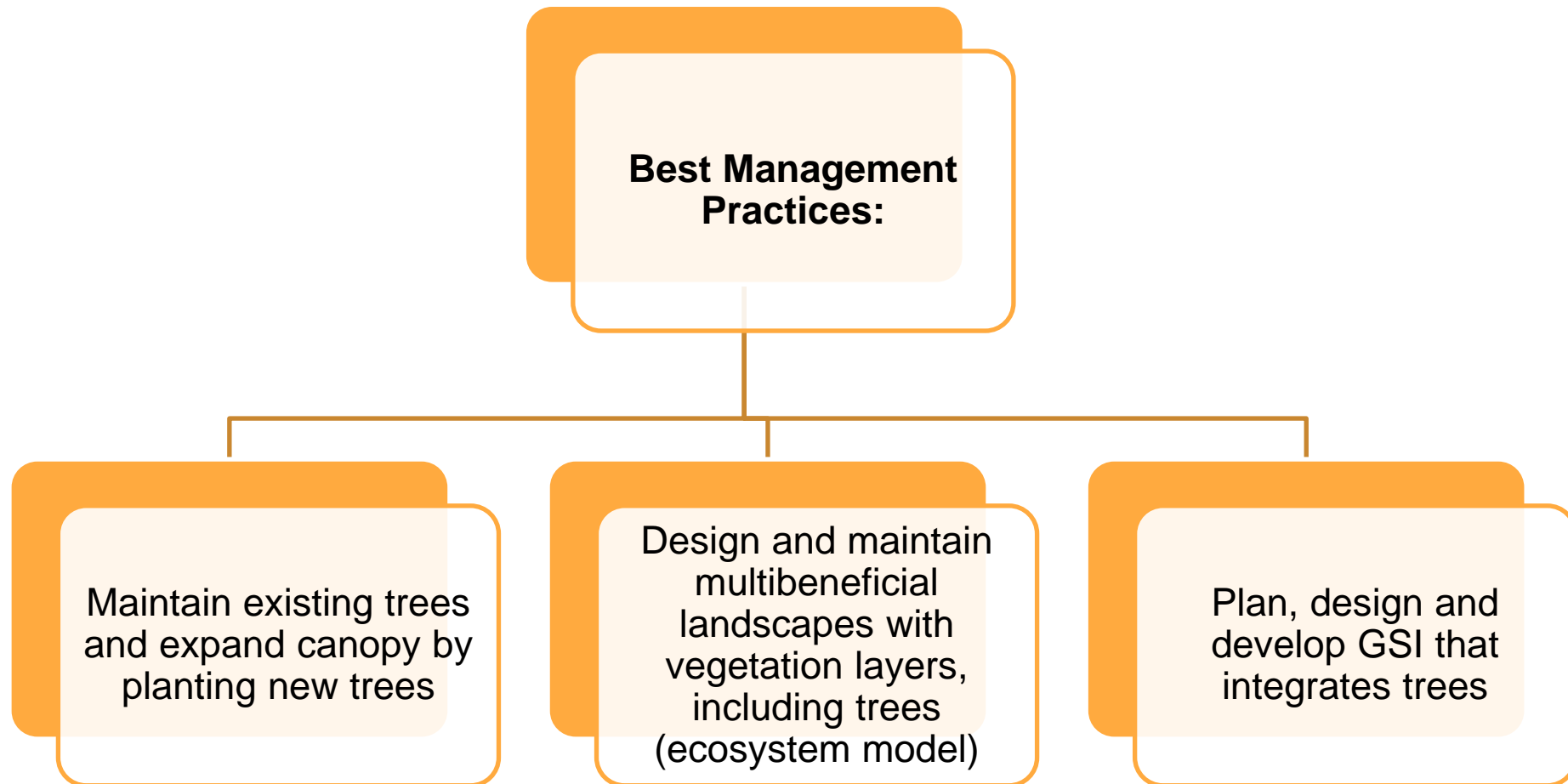
Collaborate
GSI/GI BMP's
Co-design
Urban Forester

Funding
SW Utility
City Forest Credits
Climate action agenda

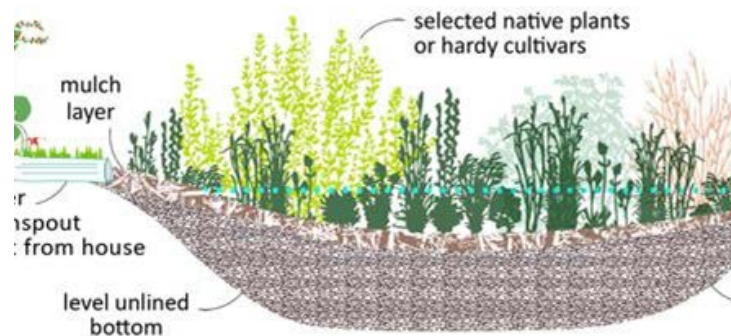
Stewardship
Community engagement
Community plantings
Tree distribution
Ecosystem restoration
Adaptive management

Trees and Stormwater Co-Design

More GSI collaboration needed across industries and municipalities



Green Stormwater Infrastructure



Our staff and Conservation Crew are in the field spring through fall installing green infrastructure projects:

- Rain Gardens
- Rain Barrels
- De-paves
- Bio-swales

**13,795 GALLONS OF RAINWATER
STORAGE INSTALLED OR
RETROFITTED**

Creating rainwater storage reduces storm water runoff where we don't want it and places it where we do want it, like thirsty gardens and yards.

Upcoming Events: Local City Success Stories



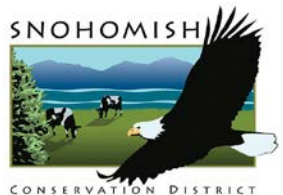
**See collaborative city GSI projects in action
across Puget Sound:**

Thursday, May 12, 11:30 am – 1:00 pm
Clarks Creek Basin: Puyallup

Thursday, May 19, 11:30 am – 1:00 pm
Renton's Stormwater Green Connection Project: Renton

Thursday, May 26, 11:30 am – 1:00 pm
Arlington's Old Town Wetland: Arlington

www.snohomishcd.org/events



Forest Stewardship Program



**Assisted 31 landowners and
700 acres of forestland**

Broadening

Broadening
partnerships in
Snohomish
County

Increasing

Increasing
services for
landowners,
including cost
share funding

Delivering

Delivering
community
wildfire
resilience
planning and
project
implementation

Forest Ecological Goals



Restore forest-related ecosystem functions



Improve fish and wildlife habitat



Protect water quality



Reduce stormwater runoff



Habitat Restoration



We provide jobs and career training

- Washington Conservation Crew
- Community Conservation Crew

Our staff and crews:

- Plant native trees and shrubs
- Restore riparian habitat
- Remove invasive species
- Install livestock exclusion fencing

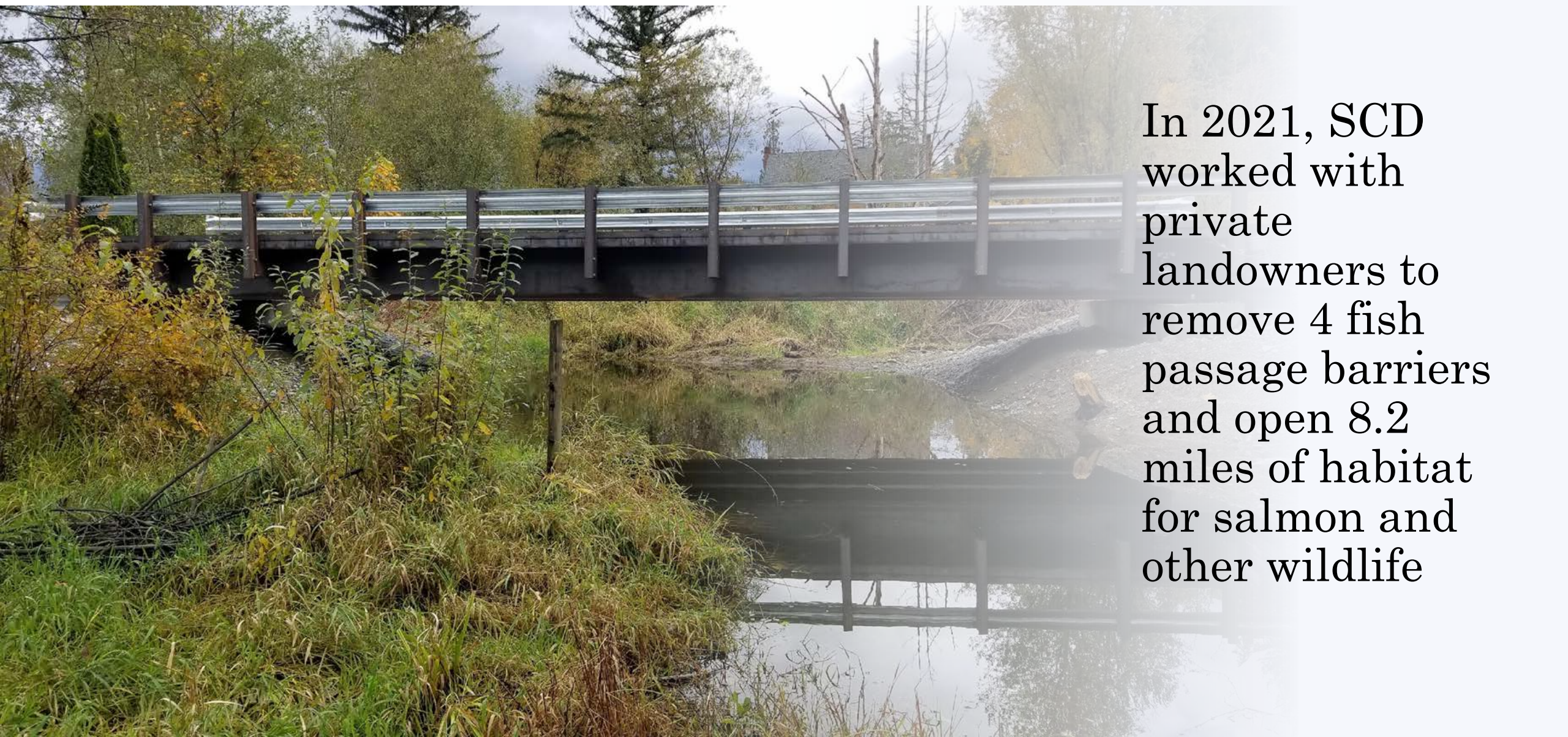
Riparian Reforestation and Stewardship



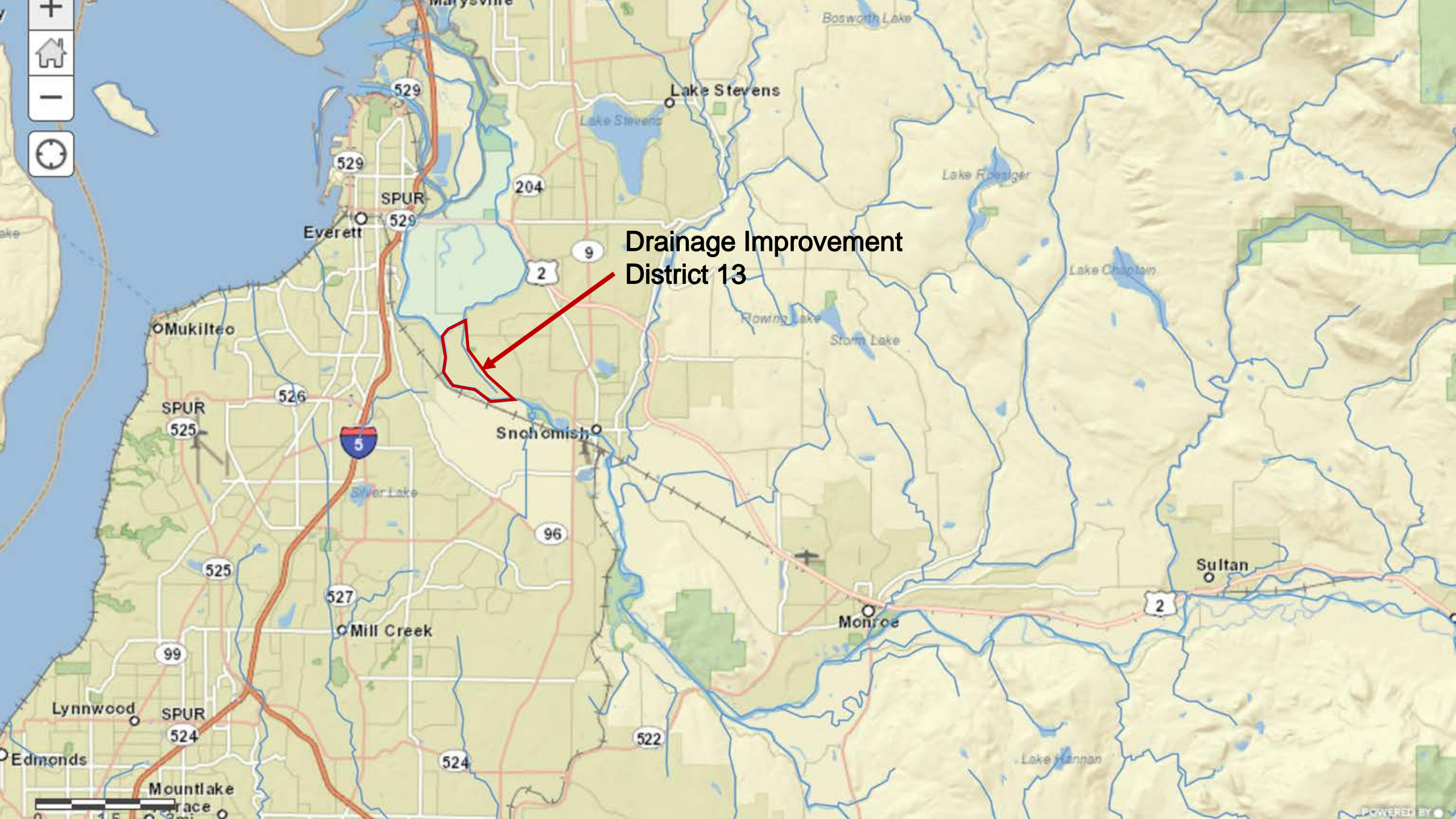


**OVER 8 MILES OF HABITAT FOR FISH AND
OTHER AQUATIC WILDLIFE RESTORED**

Alongside streams, we opened up habitat by replacing undersized culverts, removing unnecessary culverts that blocked fish passages and building fish-friendly bridges.



In 2021, SCD worked with private landowners to remove 4 fish passage barriers and open 8.2 miles of habitat for salmon and other wildlife



Drainage Improvement District 13

SPUR 529

204

9

2

Mukilteo

SPUR 525

526

Snohomish

96

527

Mill Creek

Monroe

2

Sultan

99

Lynnwood

SPUR 524

522

Mountlake

Edmonds



Swan's Trail Slough



Watercourses

- DD13 maintained – intermittent flow
- DD13 maintained – perenial flow
- Private - intermittent flow
- Private - tiled drainage



Drainage Base Map
Snohomish County
DD13

Snohomish Conservation District
Everett/Snohomish/Washington

Legend

- 6ft tidegate & 1ft hidrostal
- Beaver dam
- Salatca Bridge
- House
- Roads
- Pipelines
- Waterline
- Levees
- Drainage districts
- 2019 parcels
- SCD survey points

Prepared By Cardno
Date: 11/3/2020
Imagery Source: Maxar 7/22/2018



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NAD_1983_StatePlane_Washington_North_FIPS_4601_Feet

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Flood Concerns

Flood and Sea Level Rise

Select a Region:

Snohomish County

Select a Hazard:

Riverine & Coastal Flooding

Select Greenhouse Gas Scenario:

Low

High

Select Annual Chance Event:

2-year (50%)

10-year (10%)

25-year (4%)

100-year (1%)

Flood Year:

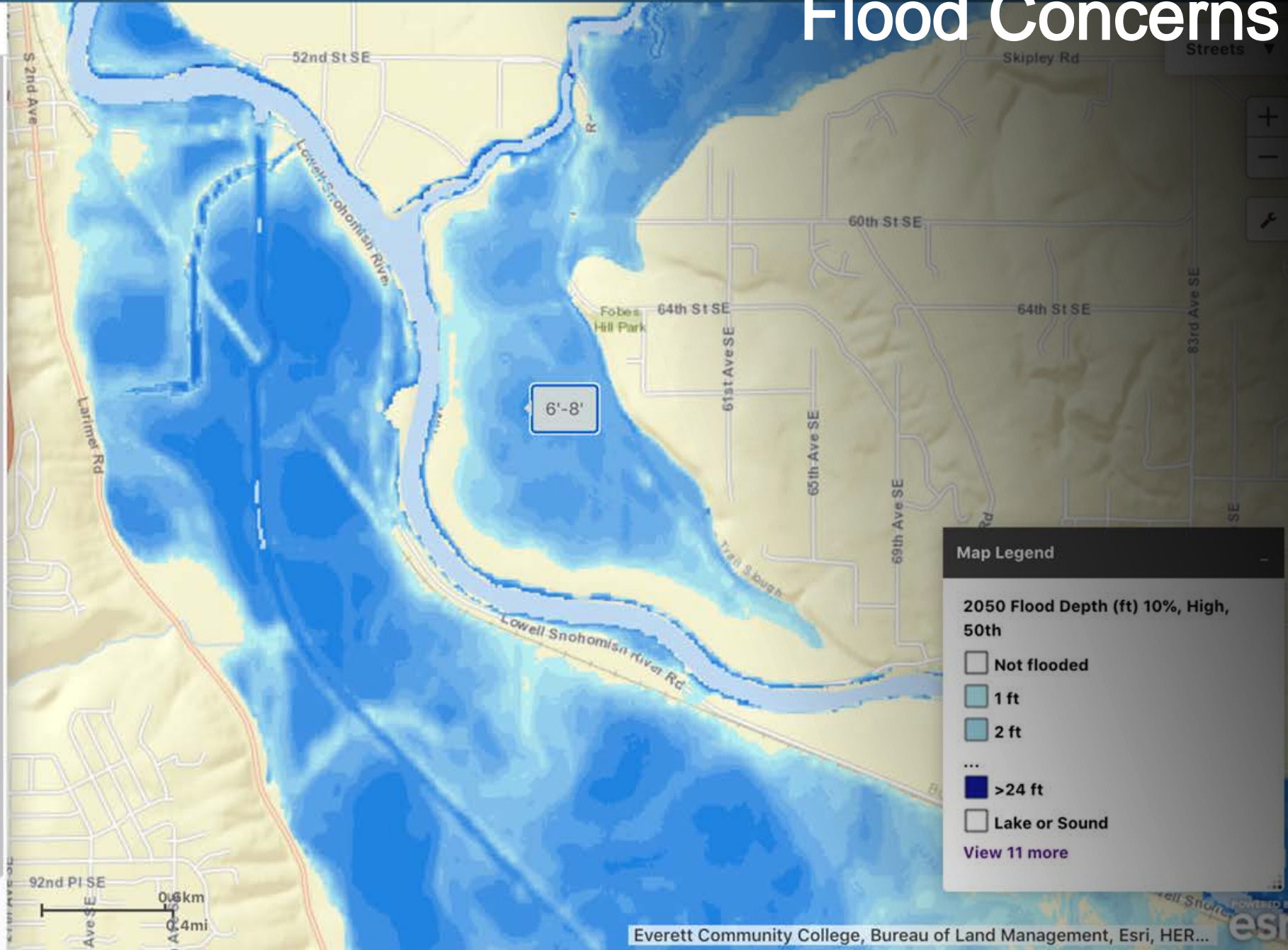
1980s

2050s

2080s

Opacity

Note: click on the map to identify the flood depth at that specific location.



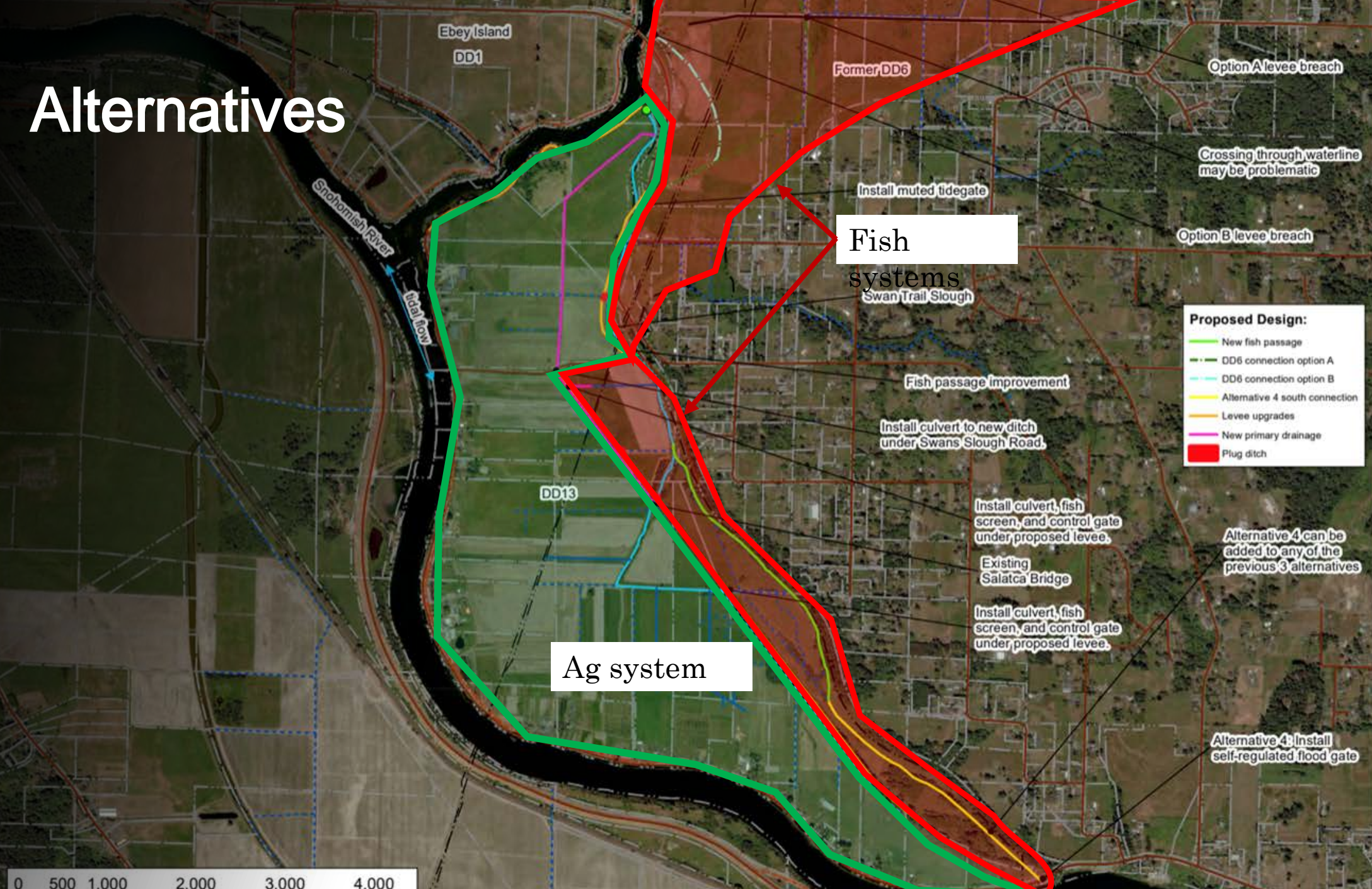
Map Legend

2050 Flood Depth (ft) 10%, High, 50th

- Not flooded
- 1 ft
- 2 ft
- ...
- >24 ft
- Lake or Sound

[View 11 more](#)

Alternatives



Fish systems

Ag system

- Proposed Design:**
- New fish passage
 - - - DD6 connection option A
 - - - DD6 connection option B
 - Alternative 4 south connection
 - Levee upgrades
 - New primary drainage
 - Plug ditch

Alternative 3 & 4

Multi-Benefit Projects
in DD13 and
Swan's Trail Slough

Snohomish Conservation District
Everett/Snohomish/Washington

Existing Conditions:

- Existing pump location
 - ☆ Beaver dam
 - ▲ House
 - - - Pipelines
 - Waterline
 - Roads
 - - - Levees
 - - - Drainage districts
 - - - 2019 parcels
- Watercourses**
- - - DD13 maintained – intermittent flow
 - DD13 maintained – perennial flow
 - - - Private - intermittent flow
 - Private - tiled drainage



Prepared By Cardno
Date: 11/5/2020
Imagery Source: Maxar 7/22/2018

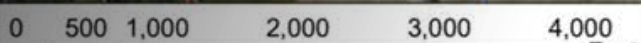


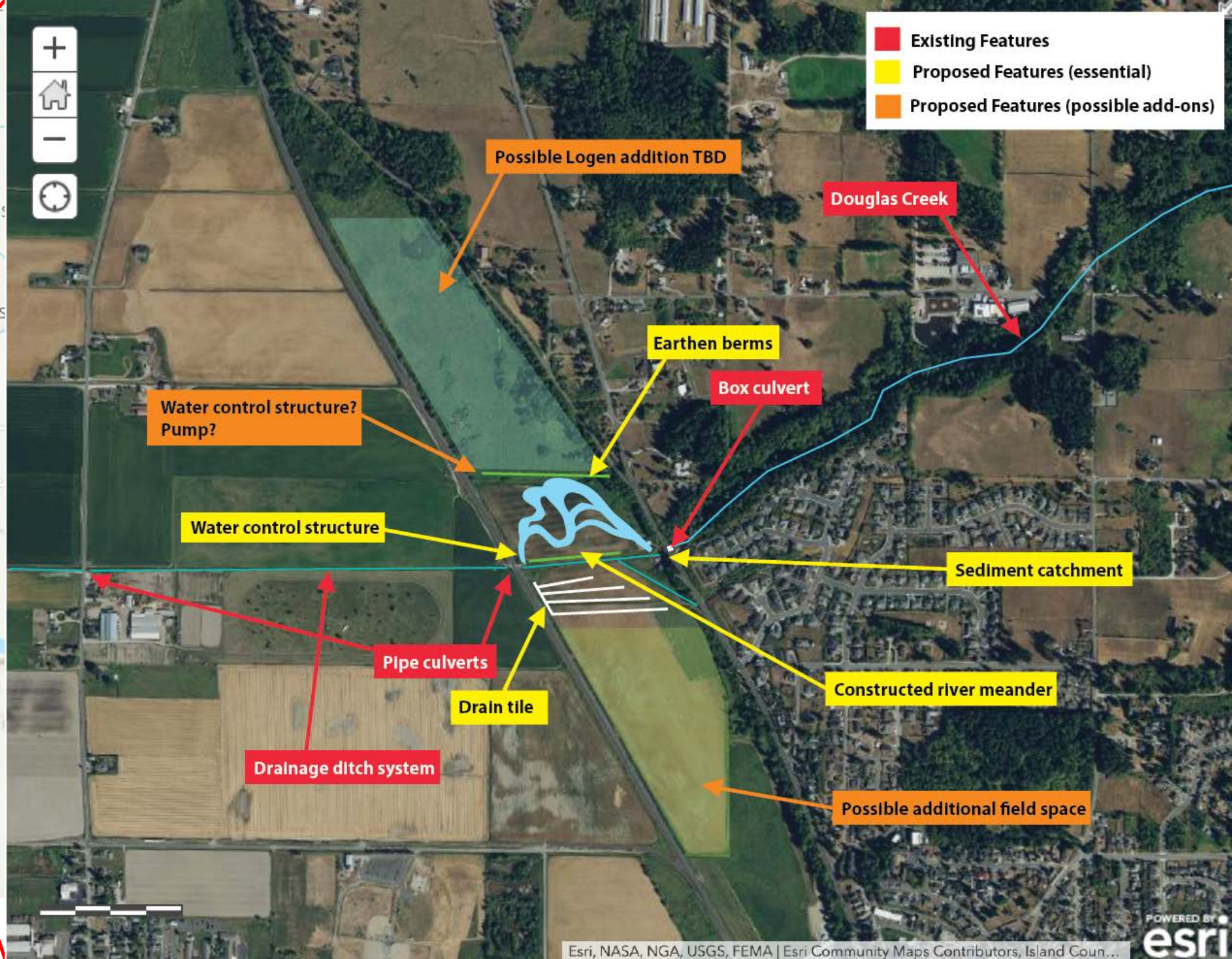
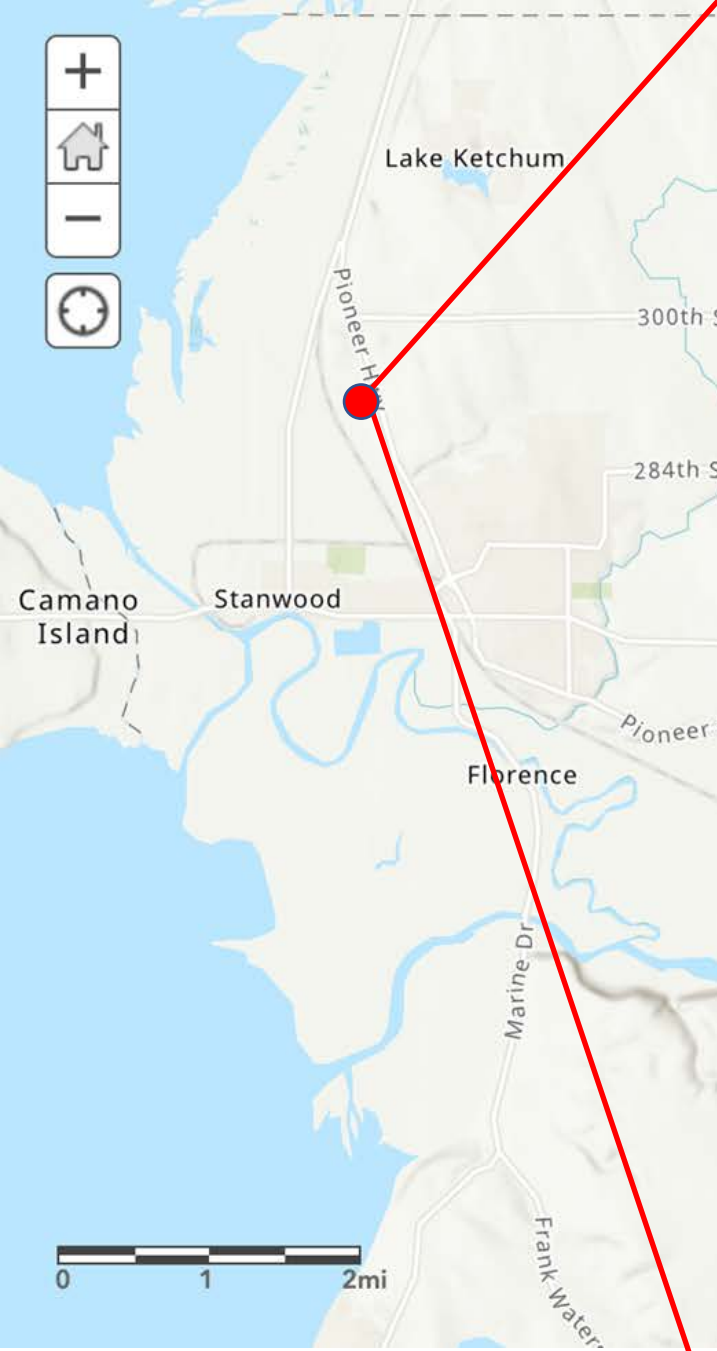
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20,590 TREES, PLANTS AND SHRUBS PLANTED

Our planting projects help improve water quality, sequester carbon, decrease flooding, make farmland more resilient, and restore crucial habitat for salmon and other wildlife.



35 ACRES OF HABITAT PLANTED

As the population increases in our community, we see the vital need to invigorate our land with native plants that support a healthy ecosystem.

68 ACRES OF HABITAT MAINTAINED

We work hard to maintain the land we have invested in with our project partners and the community. Creating habitat that continues to thrive contributes to healthier wildlife populations.

A photograph of a person in a field with a large tree in the foreground. The person is standing in a field of tall grass, looking towards the camera. A large, leafy tree is in the foreground on the left side. The background shows a line of trees and a clear sky.

310 IN-PERSON VISITS WITH LANDOWNERS

We help landowners find environmentally-friendly solutions using a non-regulatory approach.



Elementary School Lessons



Service Learning



Middle School Lessons



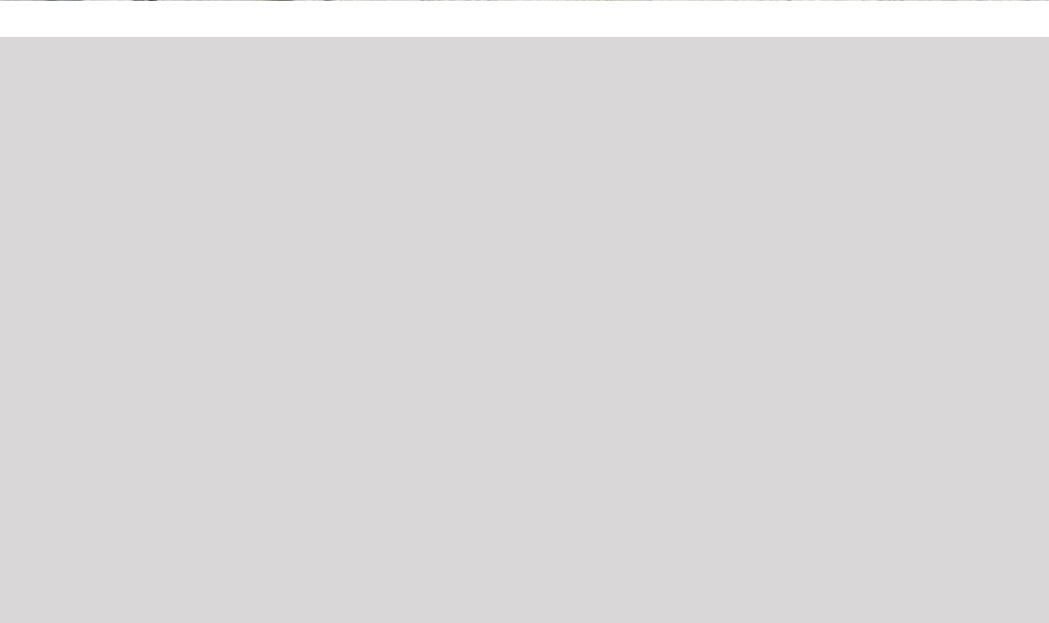
Envirothon

Youth Education



1,136 YOUTH ENGAGED

We continued to adapt to the changing needs of teachers and students to provide watershed, salmon, and water quality education by adding virtual and asynchronous lessons.



70 RAISED GARDEN BEDS INSTALLED

To help feed our community, we installed raised garden beds for private residents and community organizations who grow food for food banks and local residents.

Questions?

- Linda Lyshall, Executive Director
- Tara Luckie, Education and Outreach Program Manager
- Kristin Marshall, Habitat and Floodplain Management Program Director

