

SKOOKUM EDFRO PHASE 3

Community Workshop #1

PARTNERS

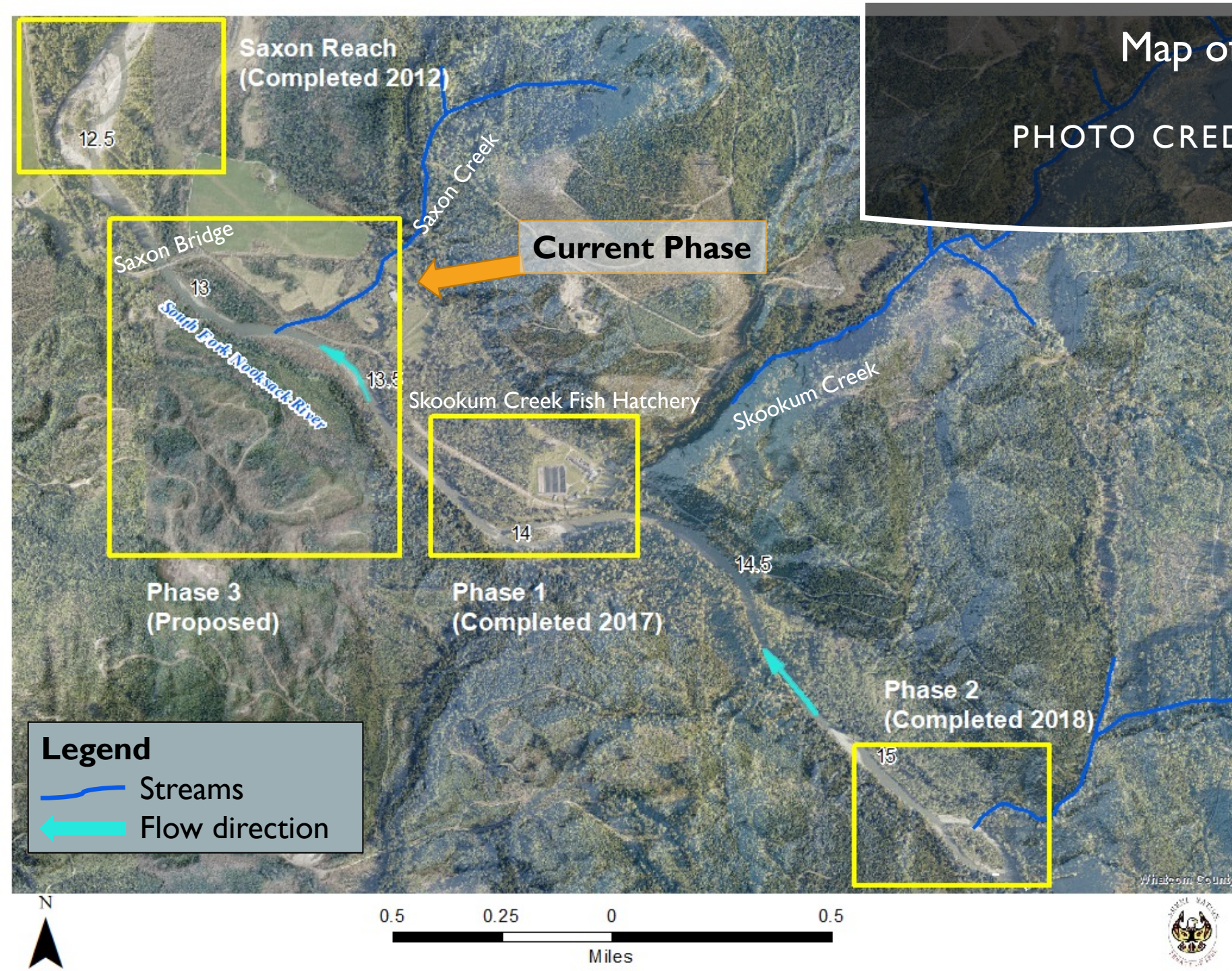


PROJECT GOALS

- Engage stakeholders in developing a design concept that restores salmon habitat to return runs to harvestable levels.
 - Key concerns for habitat improvement include high temperature, low habitat diversity, and habitat features such as deep pools with woody cover.
 - Avoid any increase to flood and erosion risk to properties and infrastructure in the project reach.

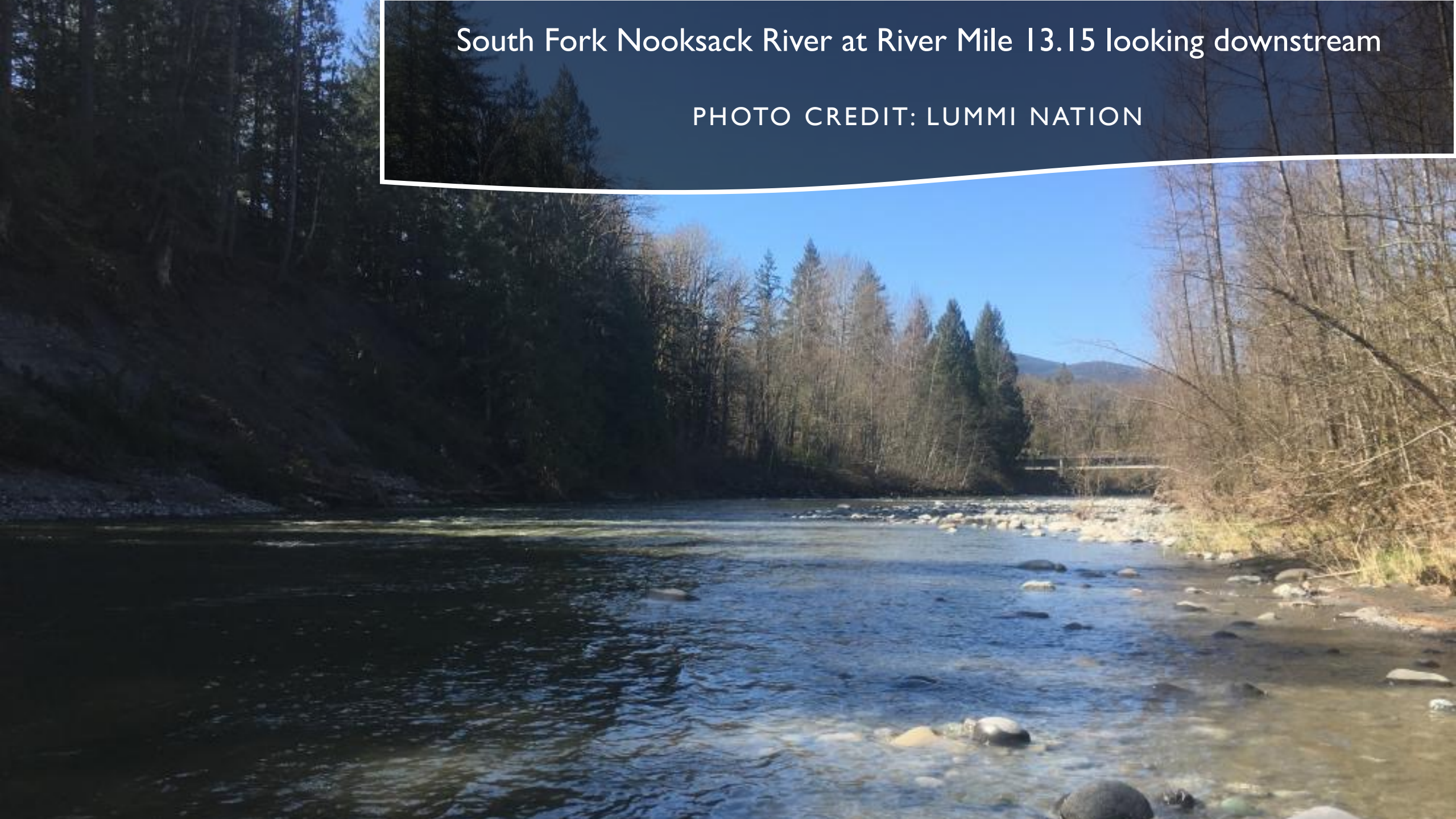
Map of Project Area

PHOTO CREDIT: LUMMI NATION



South Fork Nooksack River at River Mile 13.15 looking downstream

PHOTO CREDIT: LUMMI NATION





Flooding on the Nooksack River

PHOTO CREDIT: TWITTER @WHATCOMFAMILYFARMERS

Flooding on the Nooksack River

PHOTO CREDIT: WSDOT, JANUARY 8, 2009



ADULT CHINOOK MORTALITY EVENT IN SEPTEMBER 2021

PHOTO CREDIT: LUMMI NATION



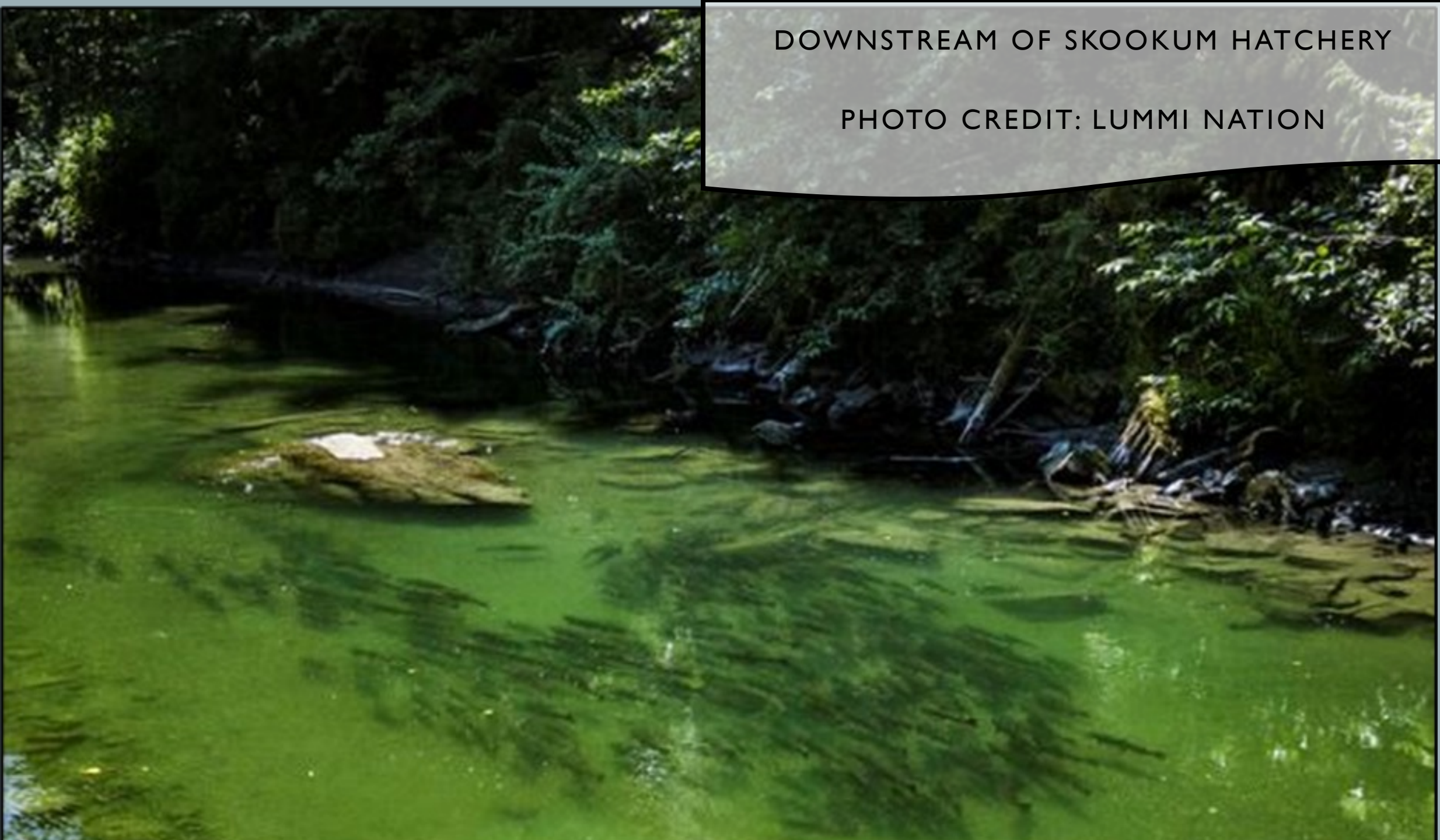
DOWNSTREAM OF SKOOKUM HATCHERY

PHOTO CREDIT: LUMMI NATION



DOWNSTREAM OF SKOOKUM HATCHERY

PHOTO CREDIT: LUMMI NATION



ADJACENT TO PFEIFFER-HOYT PROPERTY

PHOTO CREDIT: LUMMI NATION



ACROSS FROM PFEIFFER-HOYT PROPERTY
WHATCOM LAND TRUST PROPERTY

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PROJECT HISTORY

- 2005 – WRIA 1 Salmon Recovery Plan
 - Identified Jones Ck to Skookum Ck as one of the highest priority areas
- 2007 – Upper South Fork Habitat Assessment identified “Saxon Road Project”
 - Increase large wood loading to increase diversity
 - Remove bank armoring
 - Road set-back
- 2013-2015 – Skookum Edfro design grant (13-1279P)
 - Phase 3 considered most impaired reach
 - Focused on implementation of Phase 1 and Phase 2 reaches first
- 2016-17 – Skookum Edfro Phase 1 implemented
- 2018 – Skookum Edfro Phase 2 implemented

2022 UPDATES

- 2021 SRFB Grant Awarded
 - Feasibility Study
 - Conceptual Design
 - Stakeholder Outreach (additional funds from Whatcom PUD)
- 2021 NWIFC Funding for Preliminary Design

WORK TO DATE

Developed strategies with project team and stakeholders



Set up project webpage:

<https://www.lummi-nsn.gov/s/skookum>



Mailed out project fact sheet to stakeholders



Presented at Acme Van Zandt Subzone – asked for suggestions from community/stakeholders

NEXT STEPS

I:I meetings with stakeholders



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graph TD; A[I:I meetings with stakeholders] --> B[Present alternatives with engineering and outreach team at a community workshop]; B --> C[Early meetings with FEMA, stakeholders and WCPW for CLOMR]; C --> D[Select preferred alternative with input and feedback from stakeholders];
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Present alternatives with engineering and outreach team at a community workshop

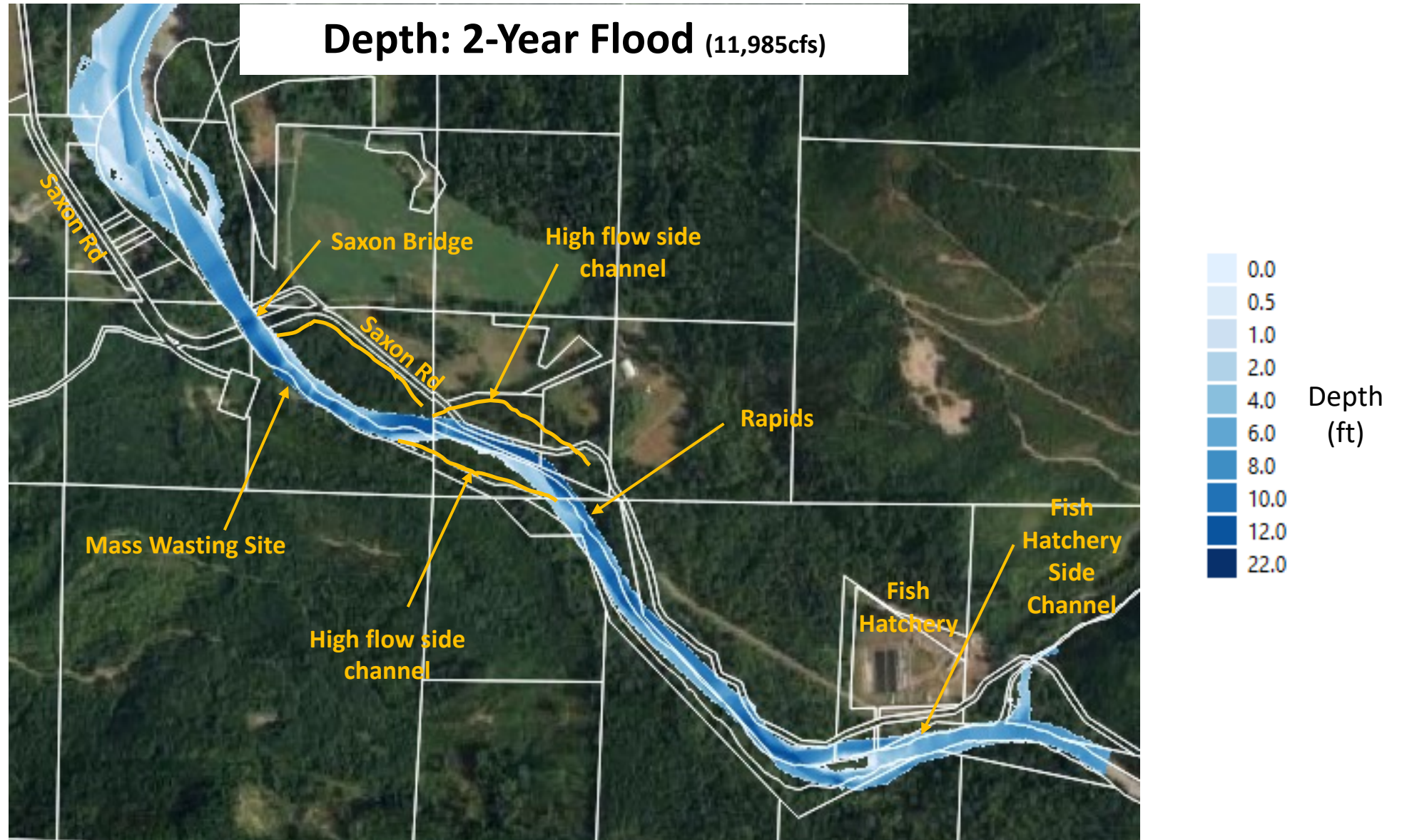
Early meetings with FEMA, stakeholders and WCPW for CLOMR

Select preferred alternative with input and feedback from stakeholders

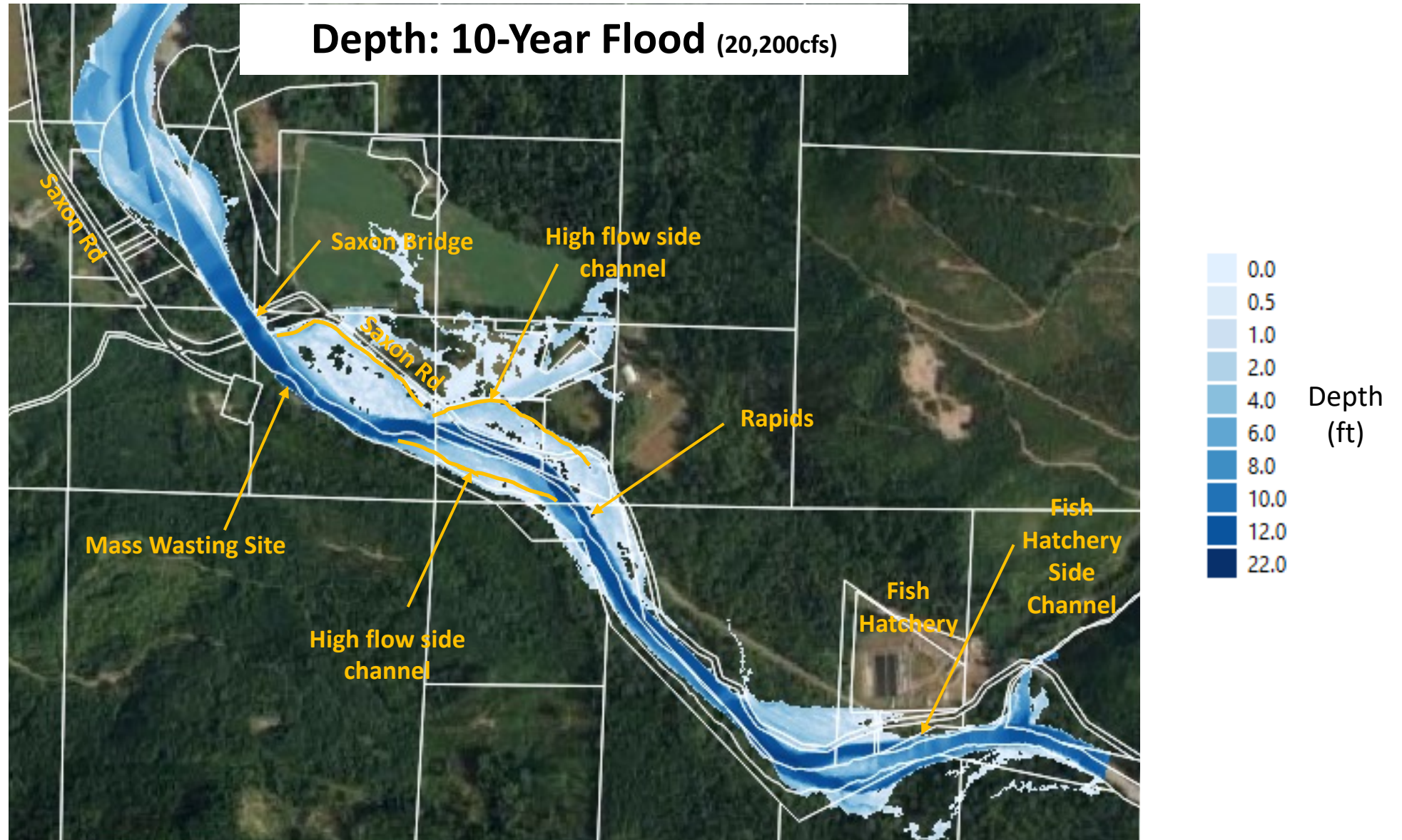
CLOMR/LOMR PROCESS

- Skookum Edfro Phase 3 is in the FEMA floodway, meaning no-rise in the 100-year floodplain.
- FEMA has rescinded the Policy on Fish Enhancement Structures in the Floodway (FEMA Region 10 2020).
 - FEMA is now regulating ELJ projects in the floodway the same as development, regardless of habitat benefits.
 - A conditional letter of map revision (CLOMR) and letter of map revision (LOMR) following construction is an alternative to allow rise in the floodway from our ELJ structures.
- It is beneficial to this project's habitat objective success to create some rise in the floodway, thus necessitating the CLOMR/LOMR process.
- The CLOMR process will require landowner and community buy-in and can take up to 18 months for authorization.

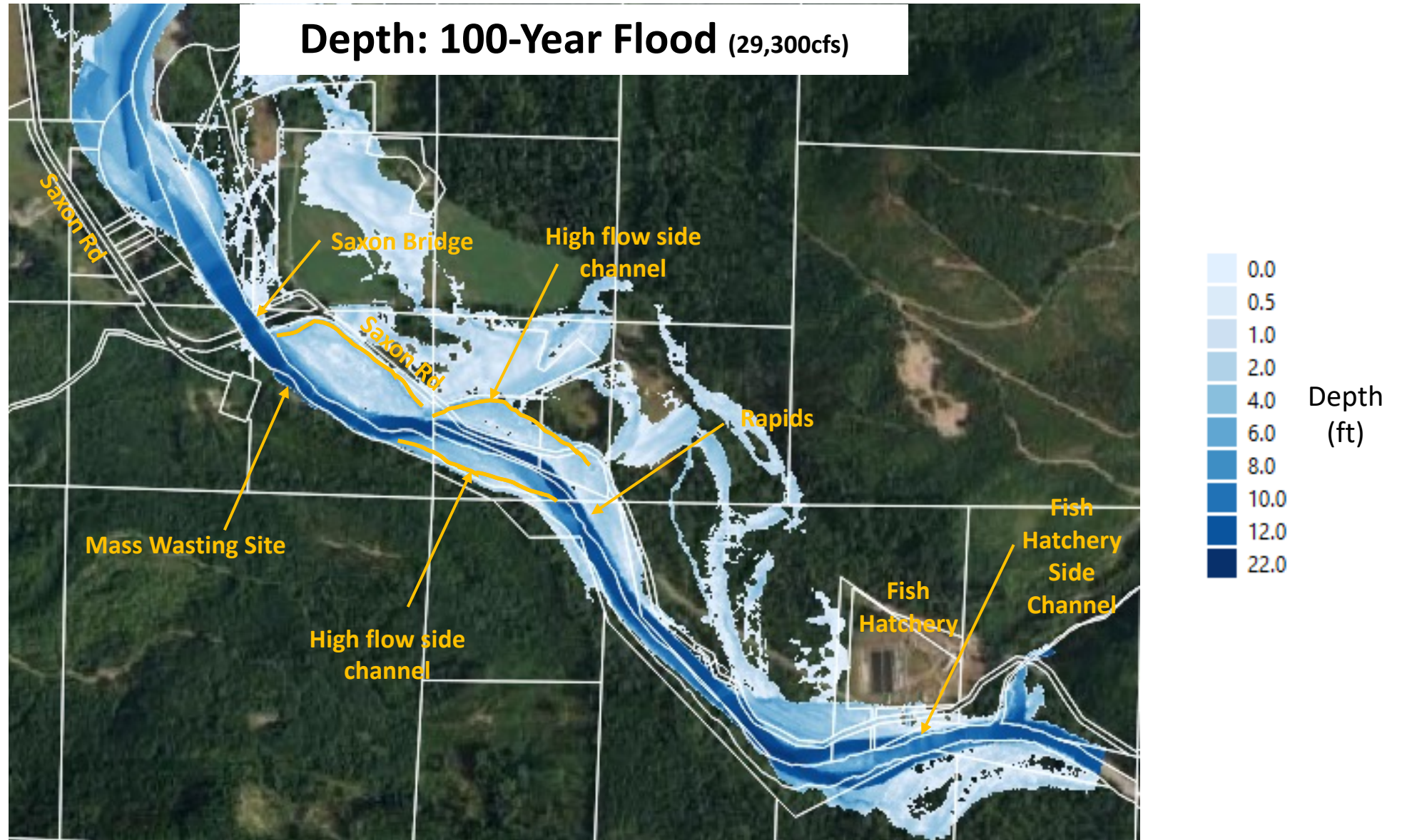
HYDRAULIC MODEL RESULTS



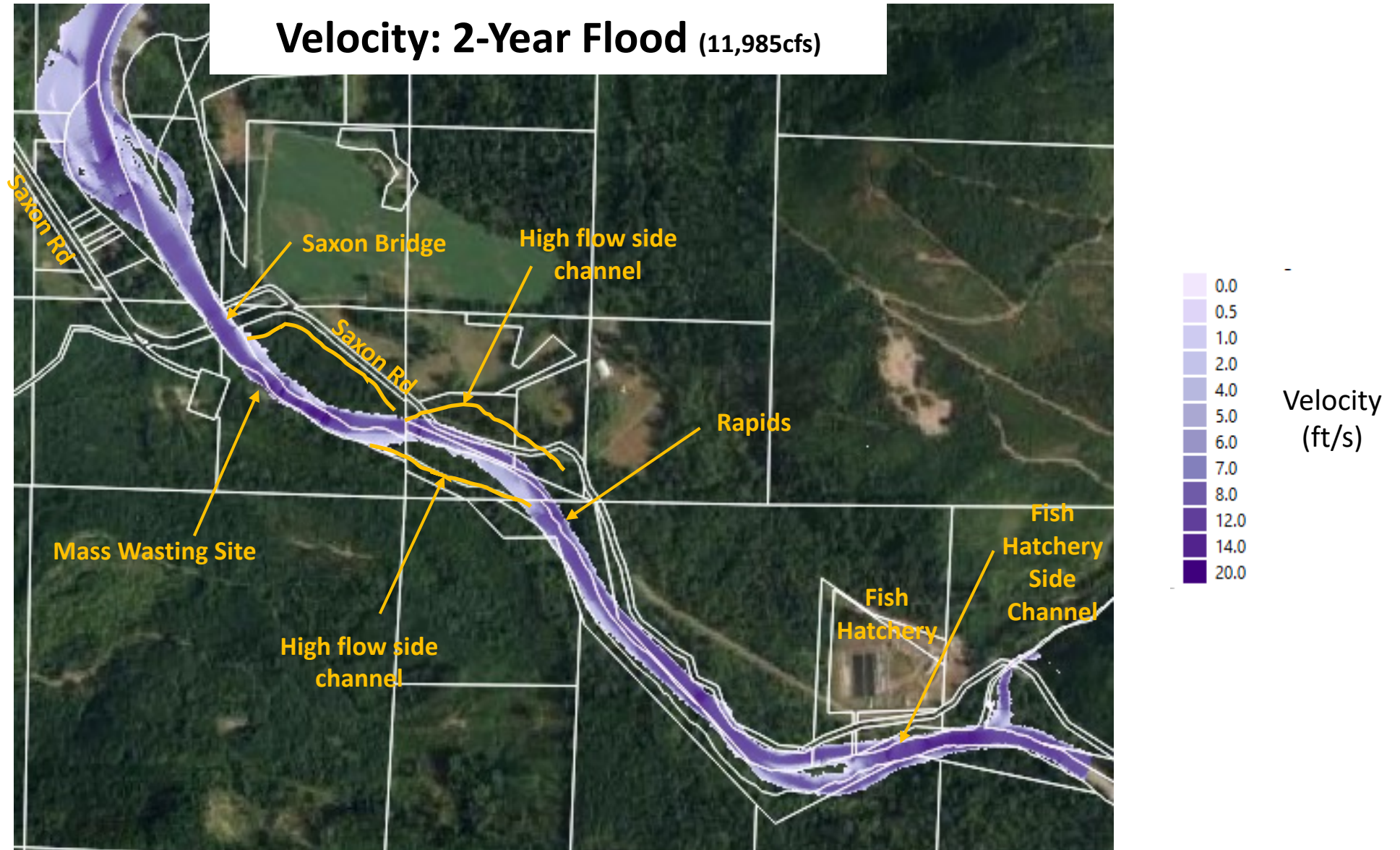
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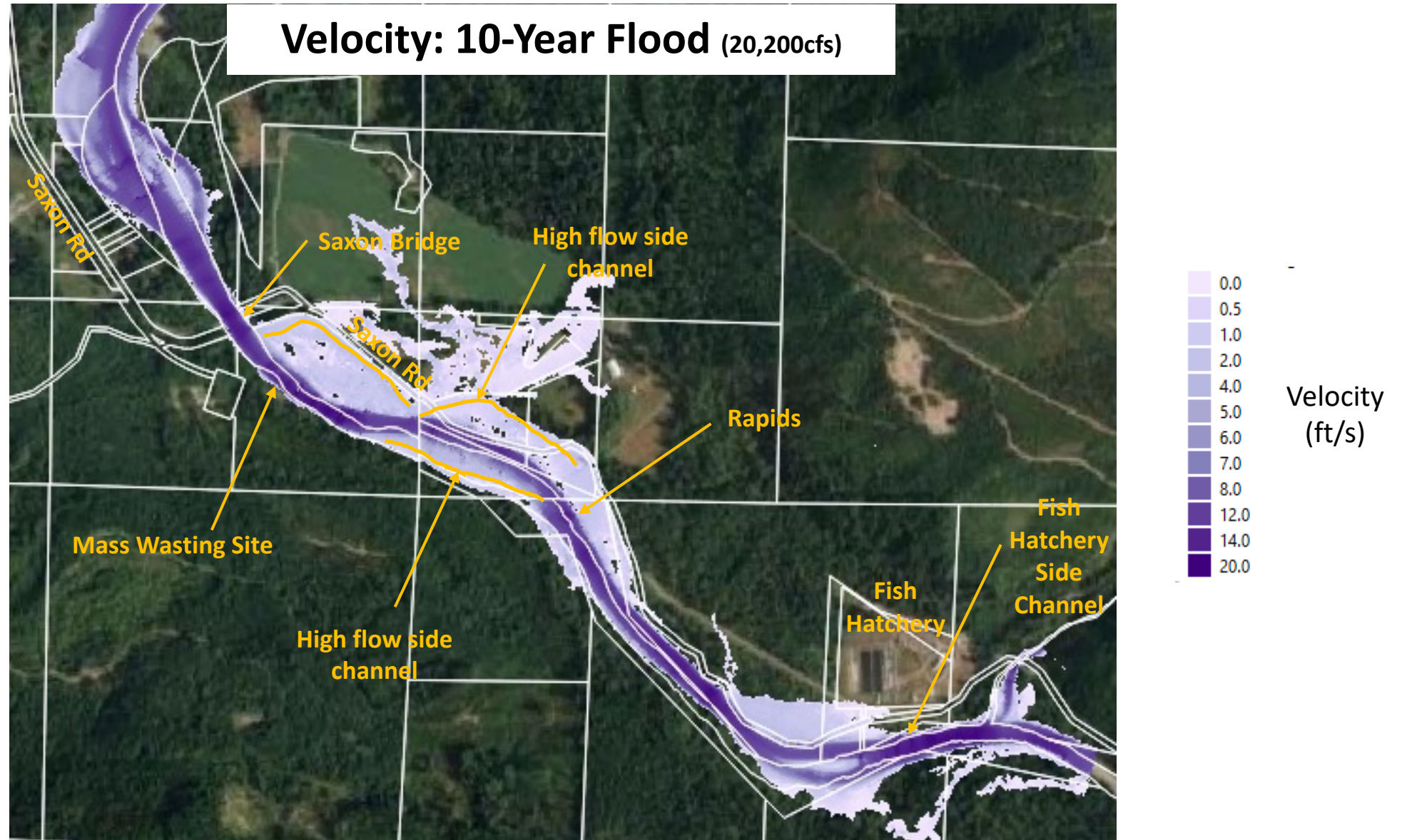
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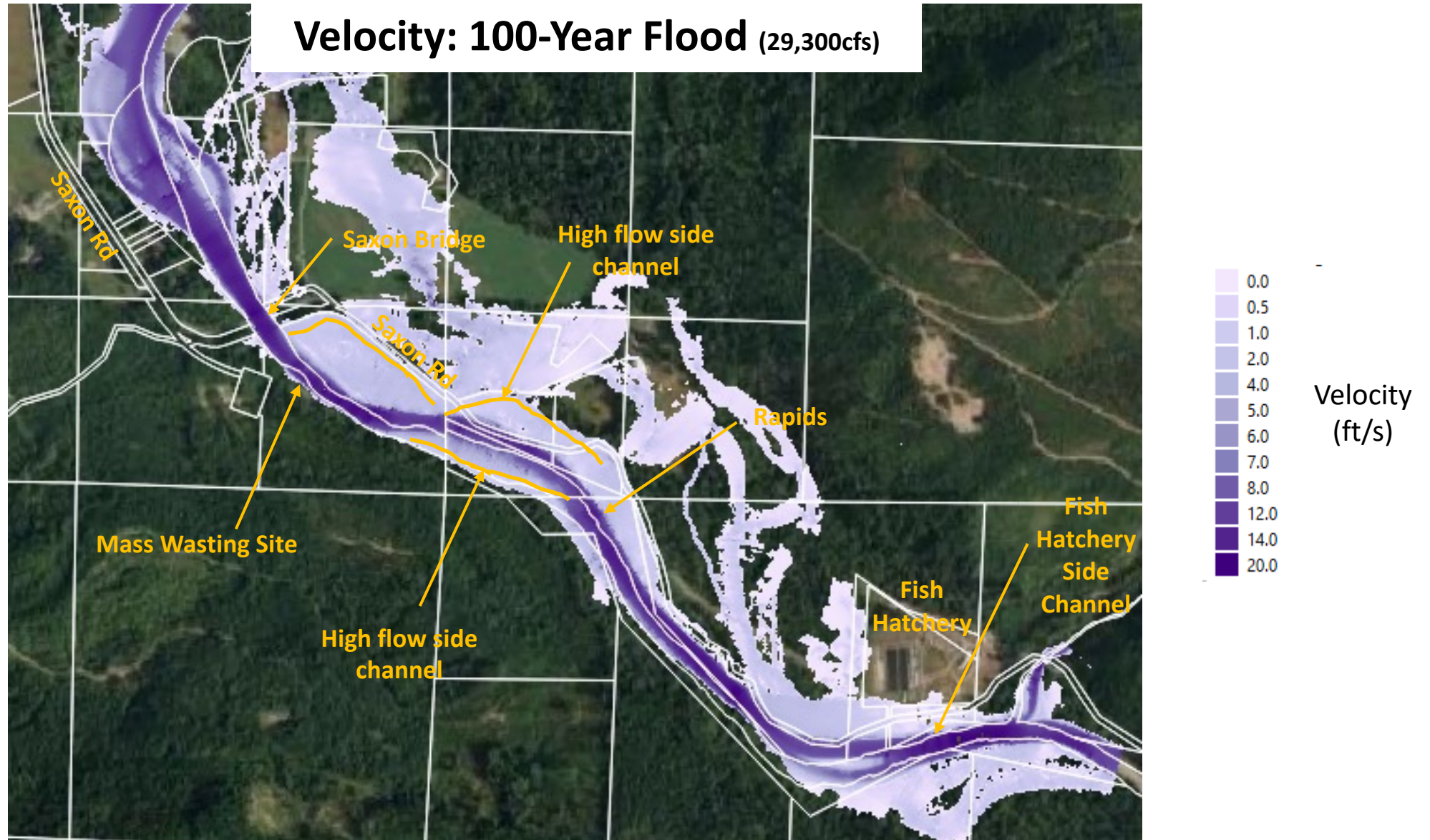
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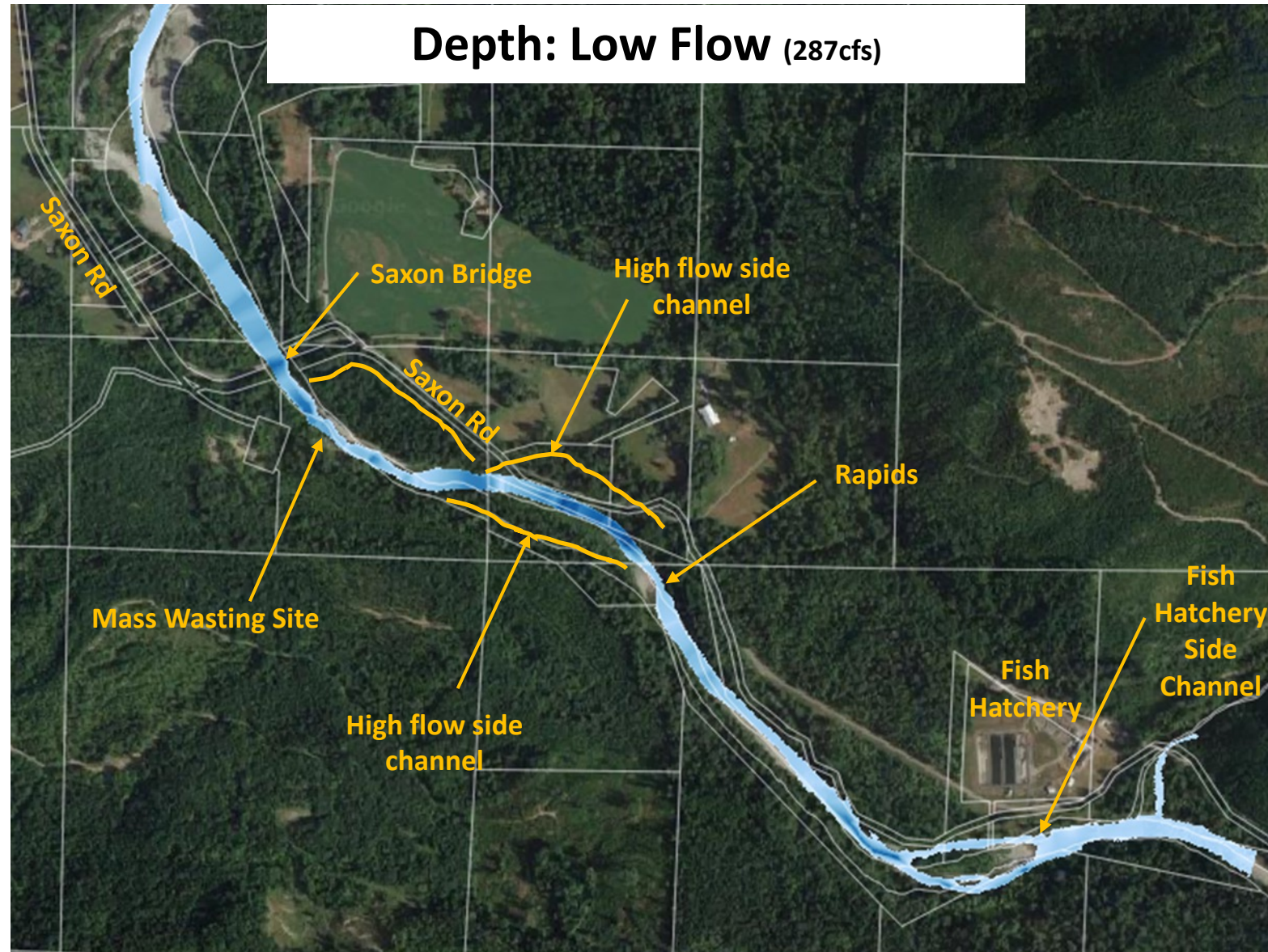
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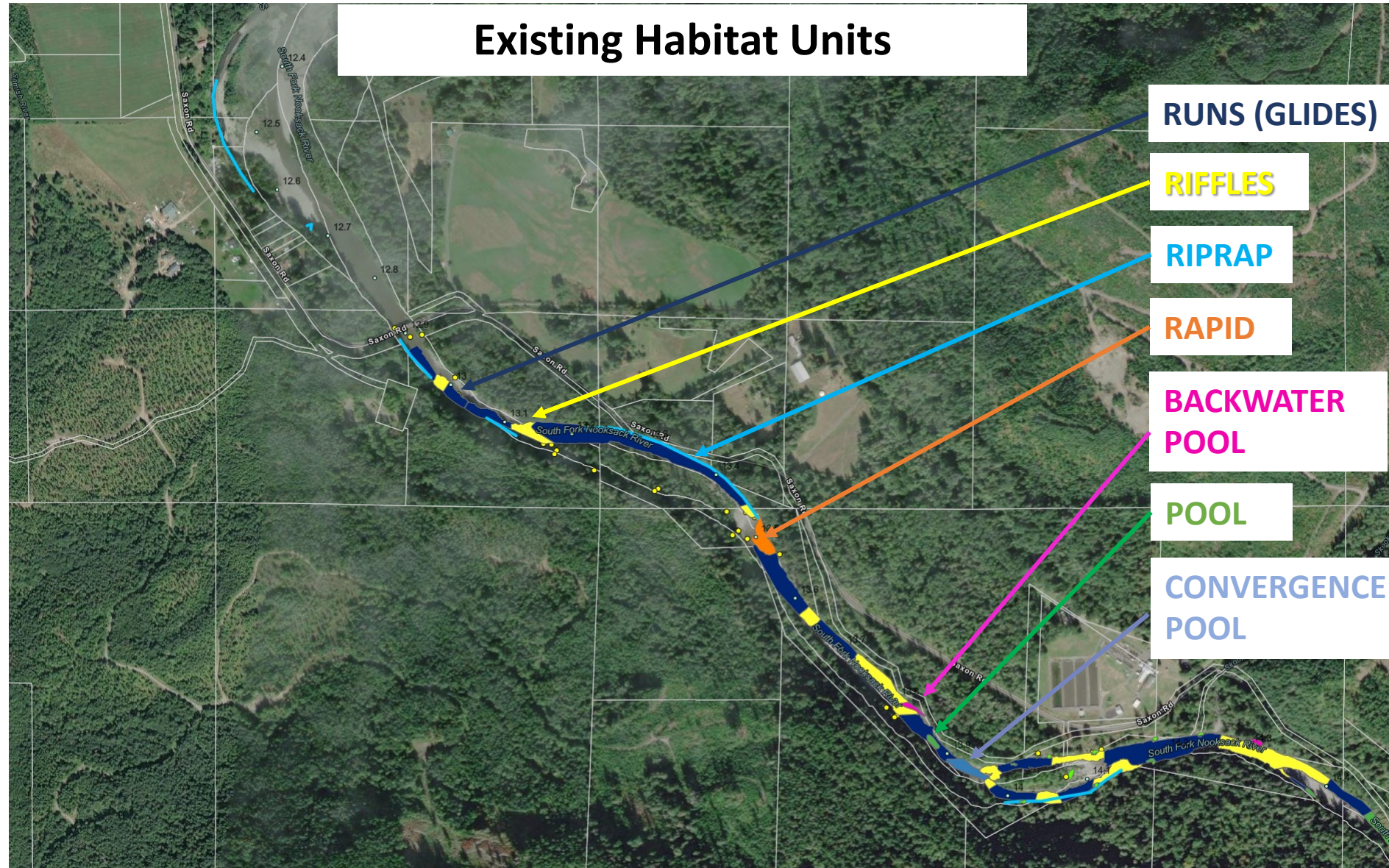
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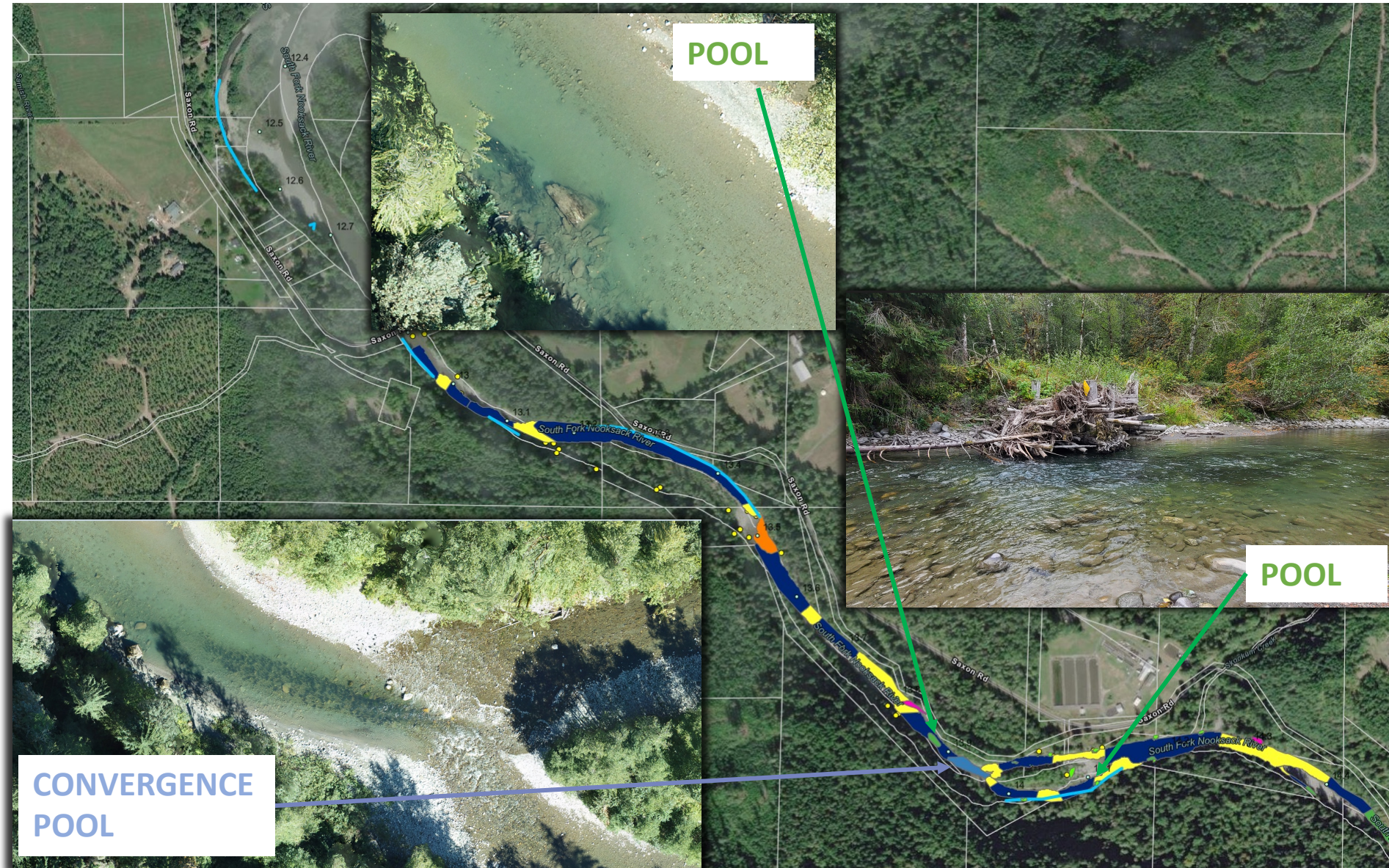
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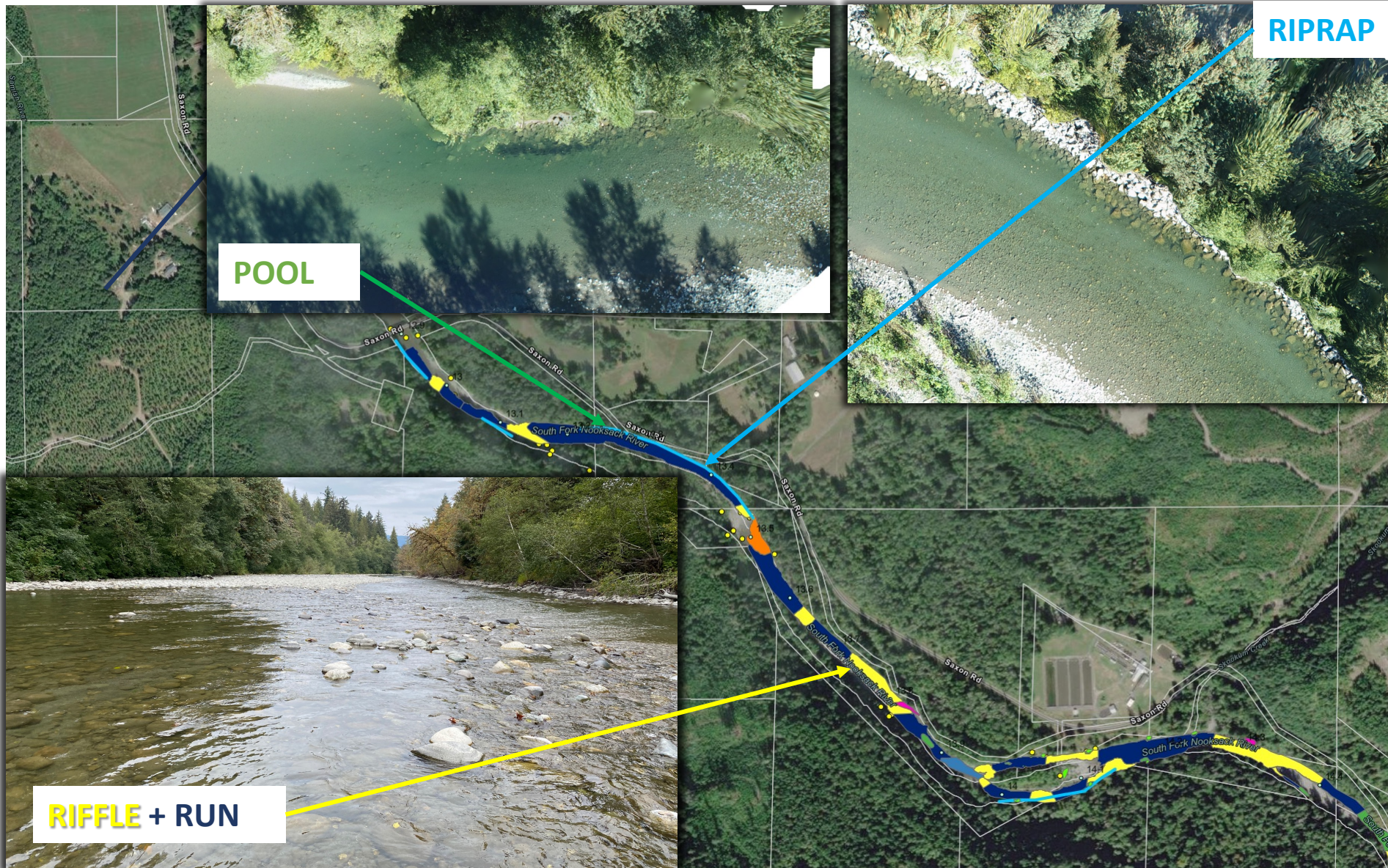
RESTORATION OPPORTUNITIES



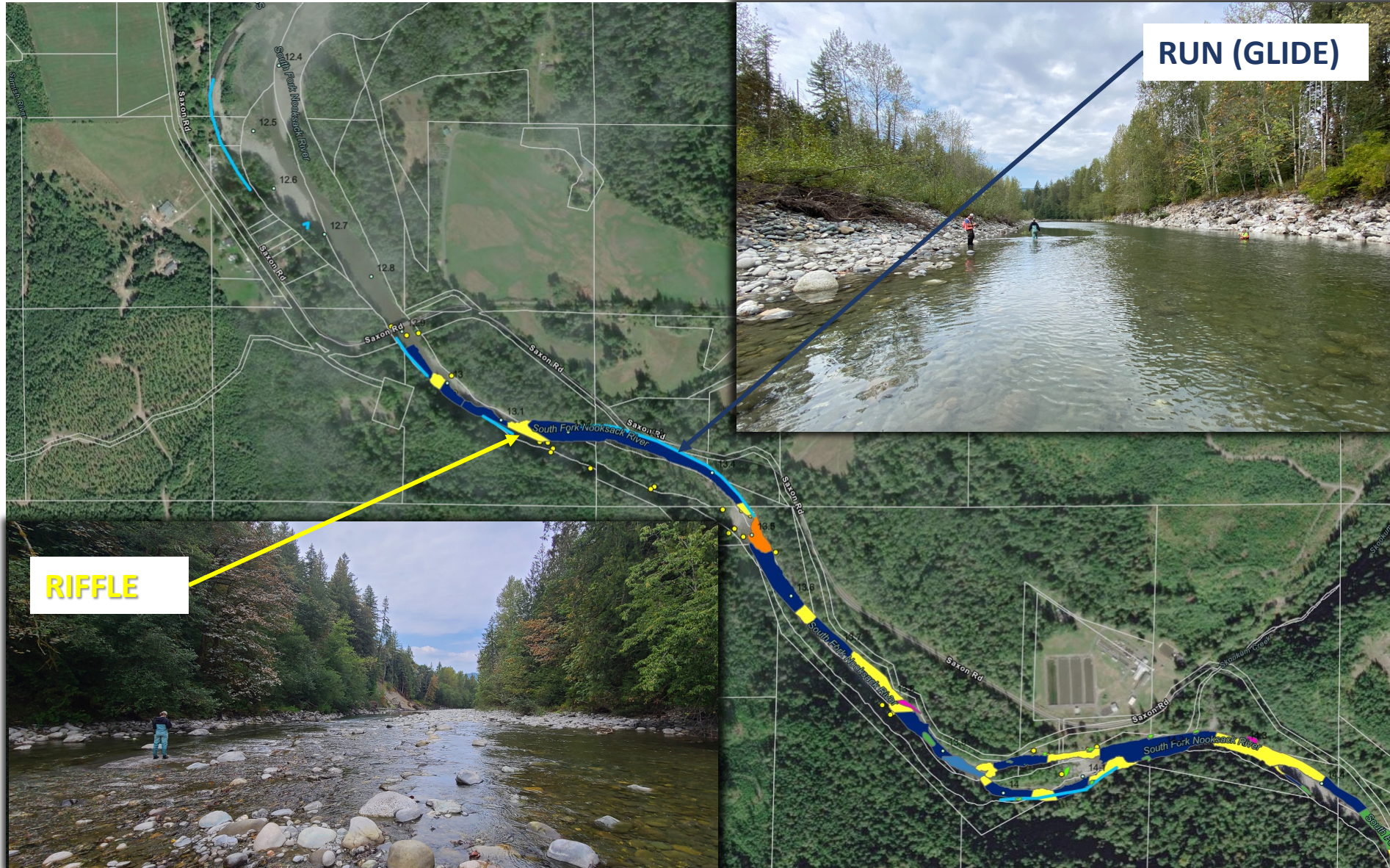
RESTORATION OPPORTUNITIES



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Small Log Structures (Small pools)

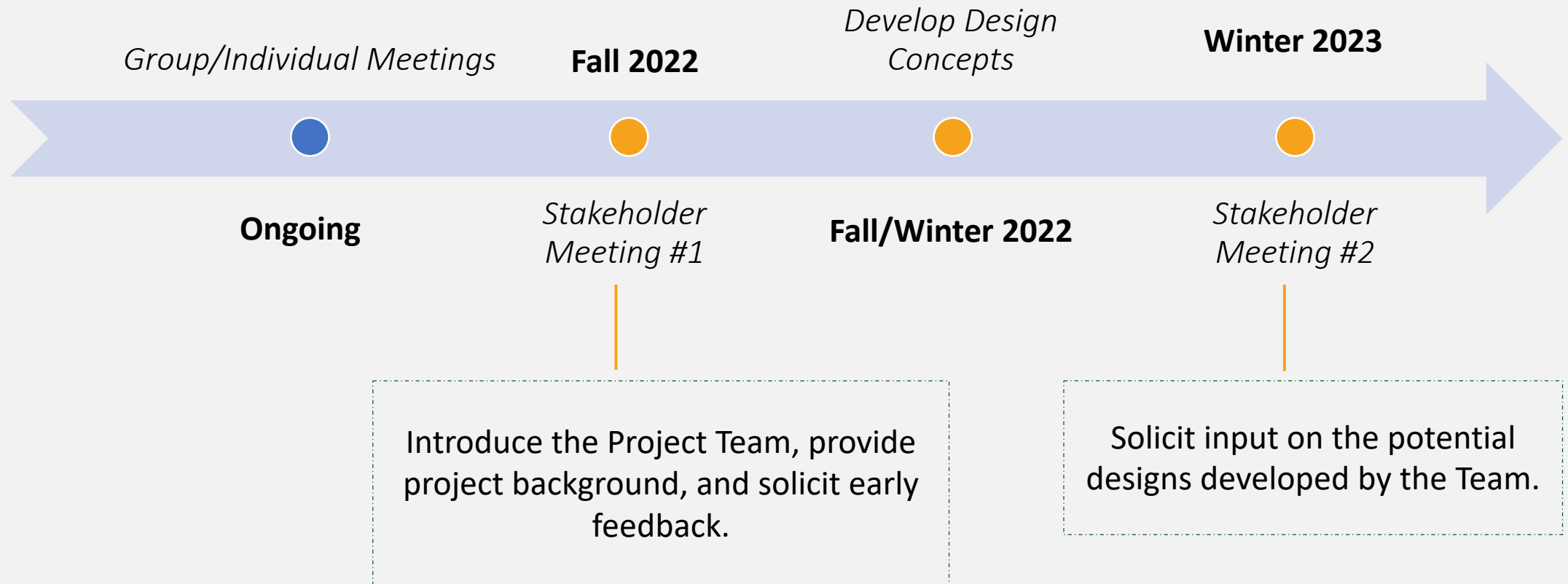


Medium Log Structures (Larger pools)



Wood Roughened RipRap (Edge Habitat)

TIMELINE



Group/Individual Meetings

Fall 2022

*Develop Design
Concepts*

Winter 2023

Ongoing

*Stakeholder
Meeting #1*

Fall/Winter 2022

*Stakeholder
Meeting #2*

Introduce the Project Team, provide project background, and solicit early feedback.

Solicit input on the potential designs developed by the Team.

CONTACT INFORMATION

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Project website:

<https://www.lummi-nsn.gov/s/skookum>