

County Fish Barrier Culverts 2023 Update

Landing Strip Creek
Rothenbuhler Road

The background image shows a forest stream with a large pipe being removed by an excavator. The scene is set in a wooded area with many trees and a stream in the foreground. The pipe is being lifted by a crane or excavator, and the surrounding area appears to be a construction or removal site.

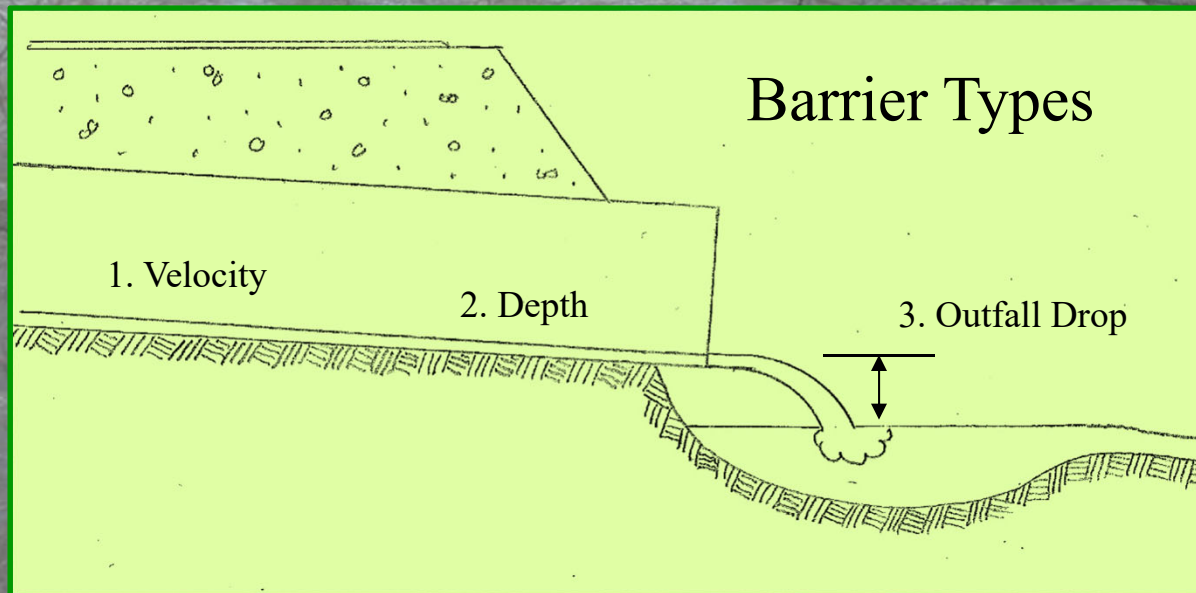
Presentation Topics:

- **Fish Passage Barriers and Project Overview**
- **Update to Fish Passage Barrier Removal Grants**
- **Status update:**
 - Memorandum of Agreement between Whatcom County and Co-Managers
 - WDFW Fish Passage Rule Making
- **Next Steps**

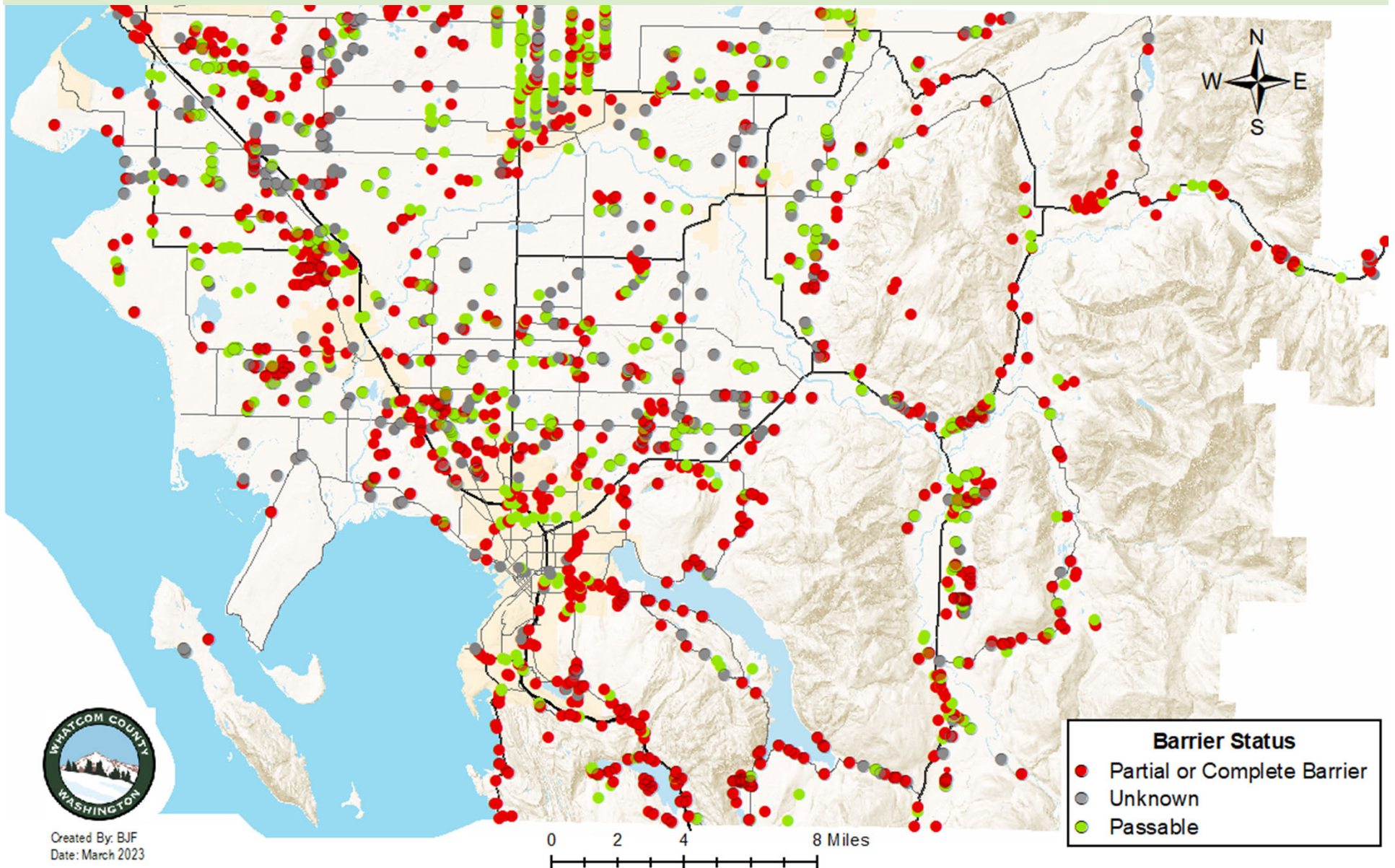
Hutchinson Creek Tributary
Mosquito Lake Road

Barrier Defined:

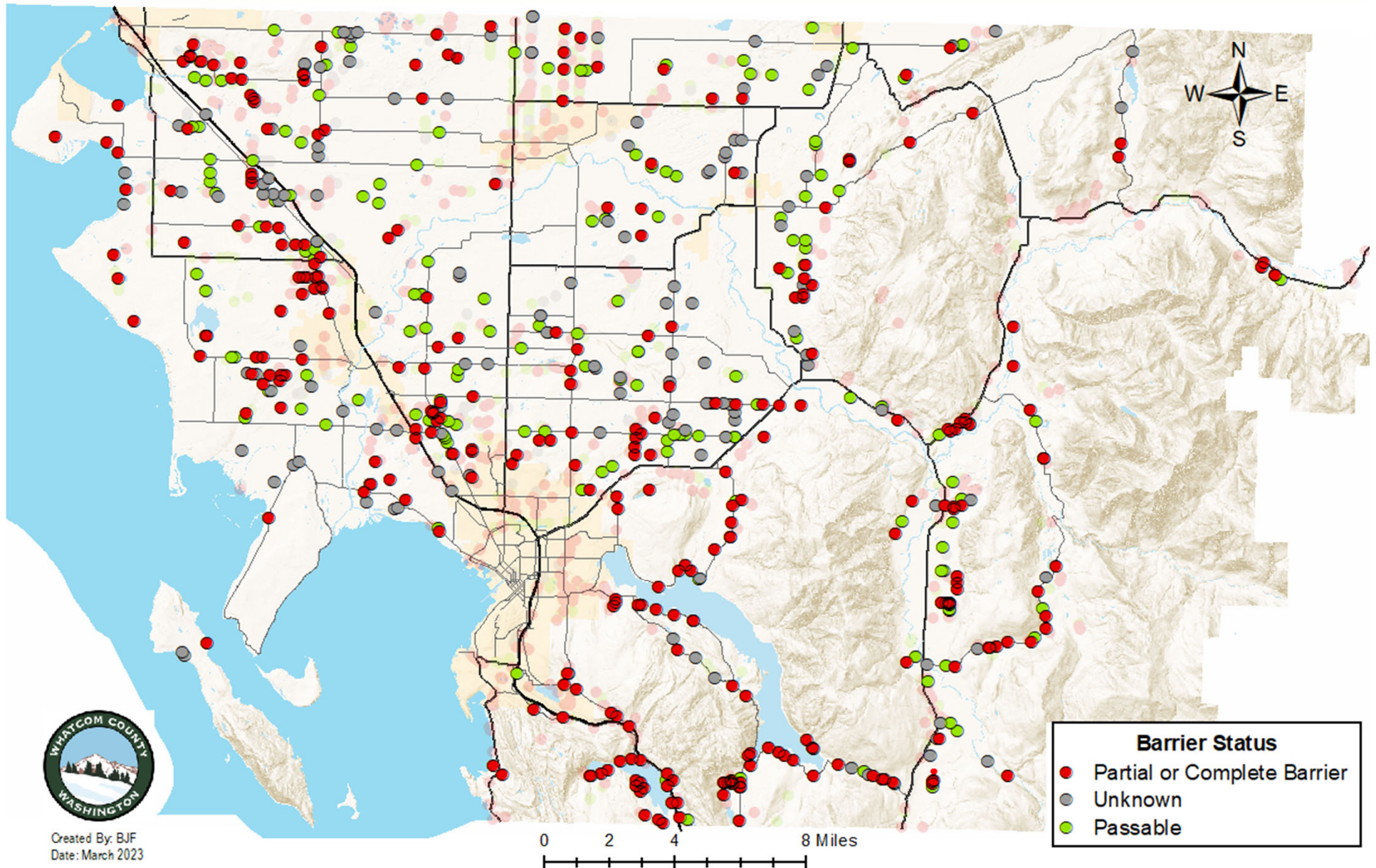
- Water flow that is too fast (> 0.4 fps)
- Water that is too shallow (< 0.8 ft.)
- Excessive water surface drop (> 0.8 ft.)



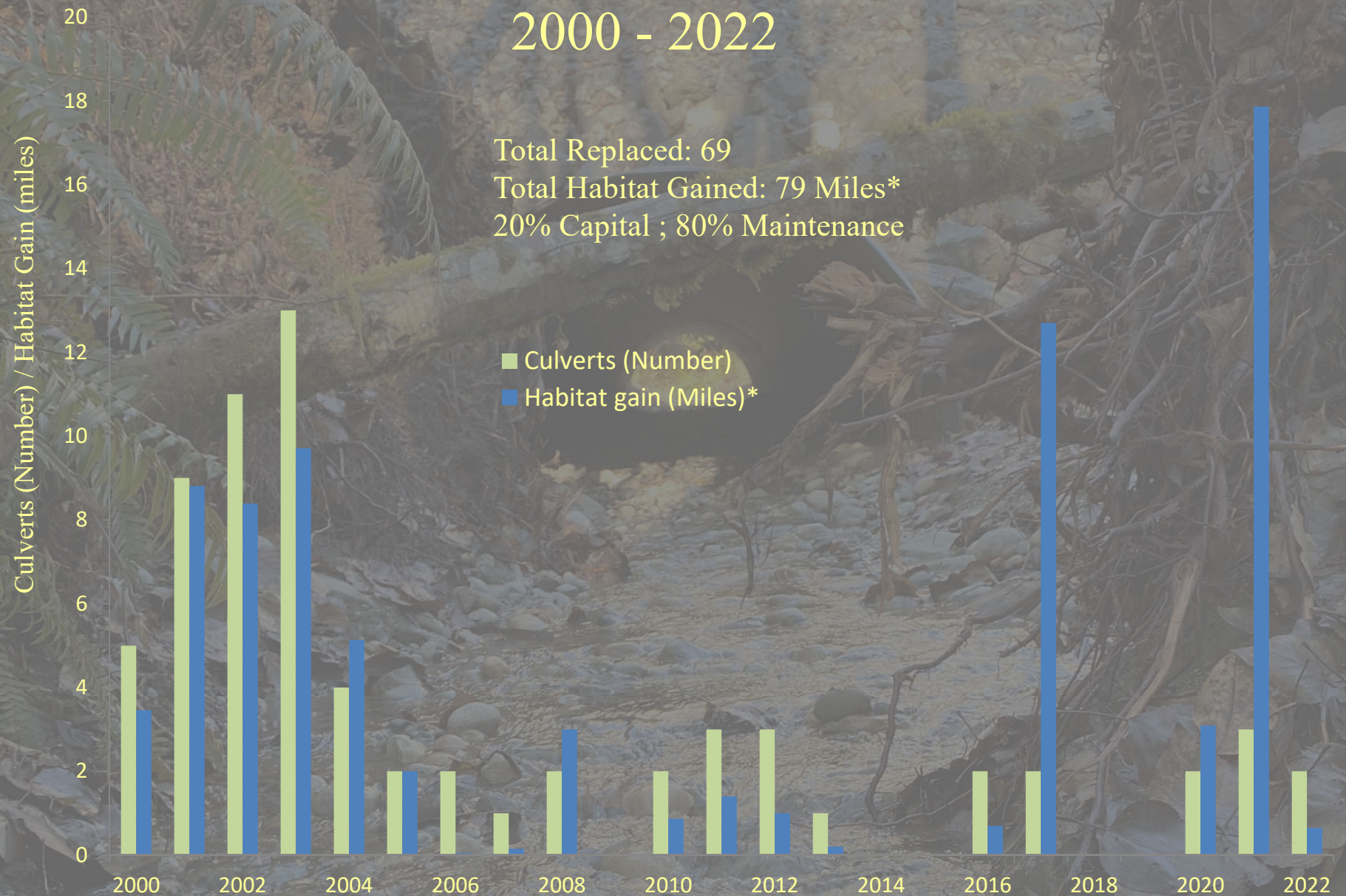
Whatcom County Culverts - All Ownership -



Whatcom County Culverts - County Ownership -



County Culverts Replaced / Habitat Gained 2000 - 2022



* Habitat gained measured from the corrected barrier to the most upstream natural barrier.

Project Examples - Recently Completed -

Bear Cr. Northwest Dr.



E. Smith Road Pavement
Rehabilitation (2020)



Rothenbuhler Road
Landing Strip Creek (2022)



Northwest Drive Overlay (2020)





Truck Road
Tributary to N. Fork Nooksack (2021)



Appel Farms
Clarkson Creek (2017)



Slater Road
Jordan Creek (2017)

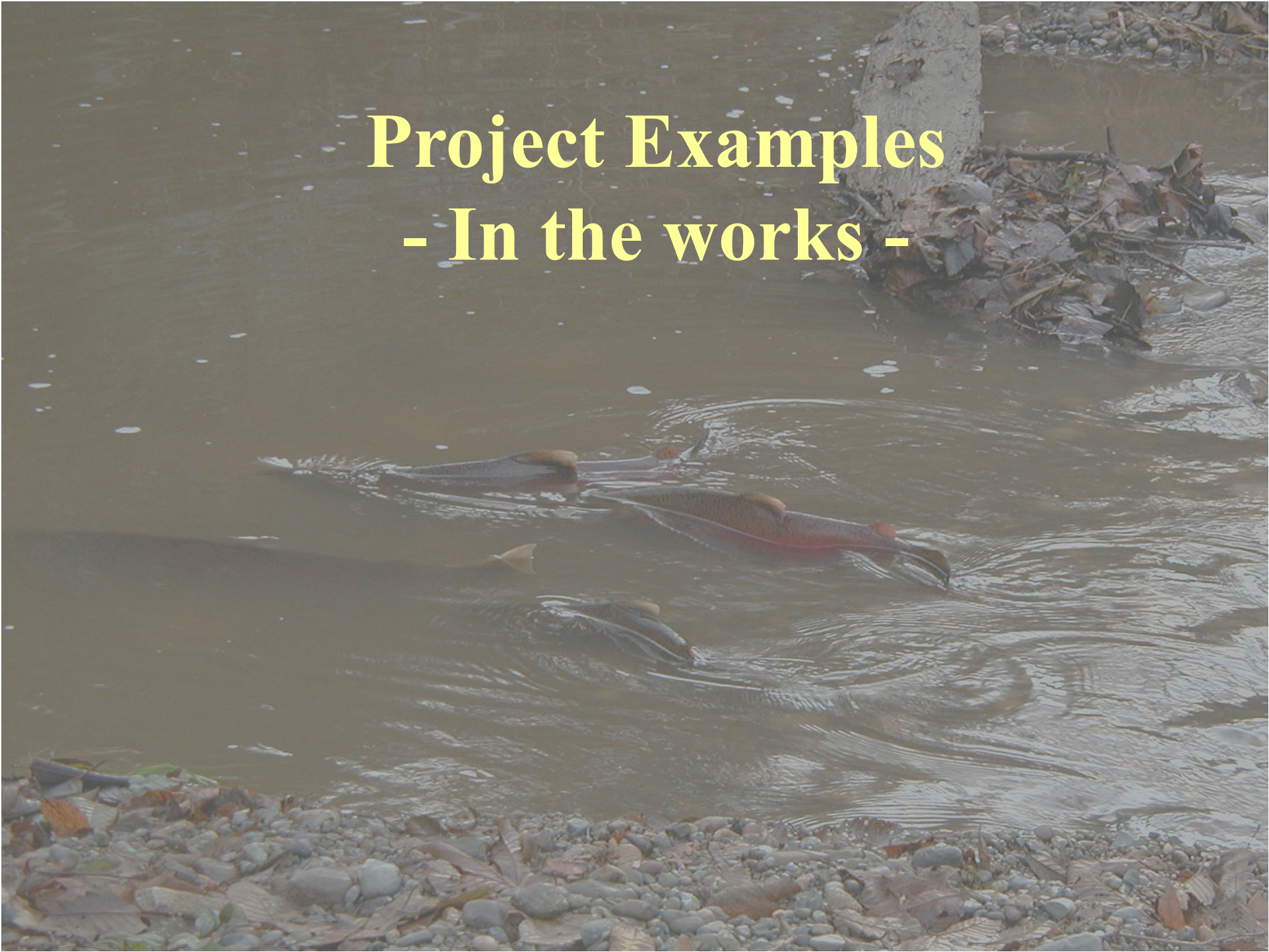


11/19/2015

Duffner Ditch Self-Regulating Tide Gate (2021)

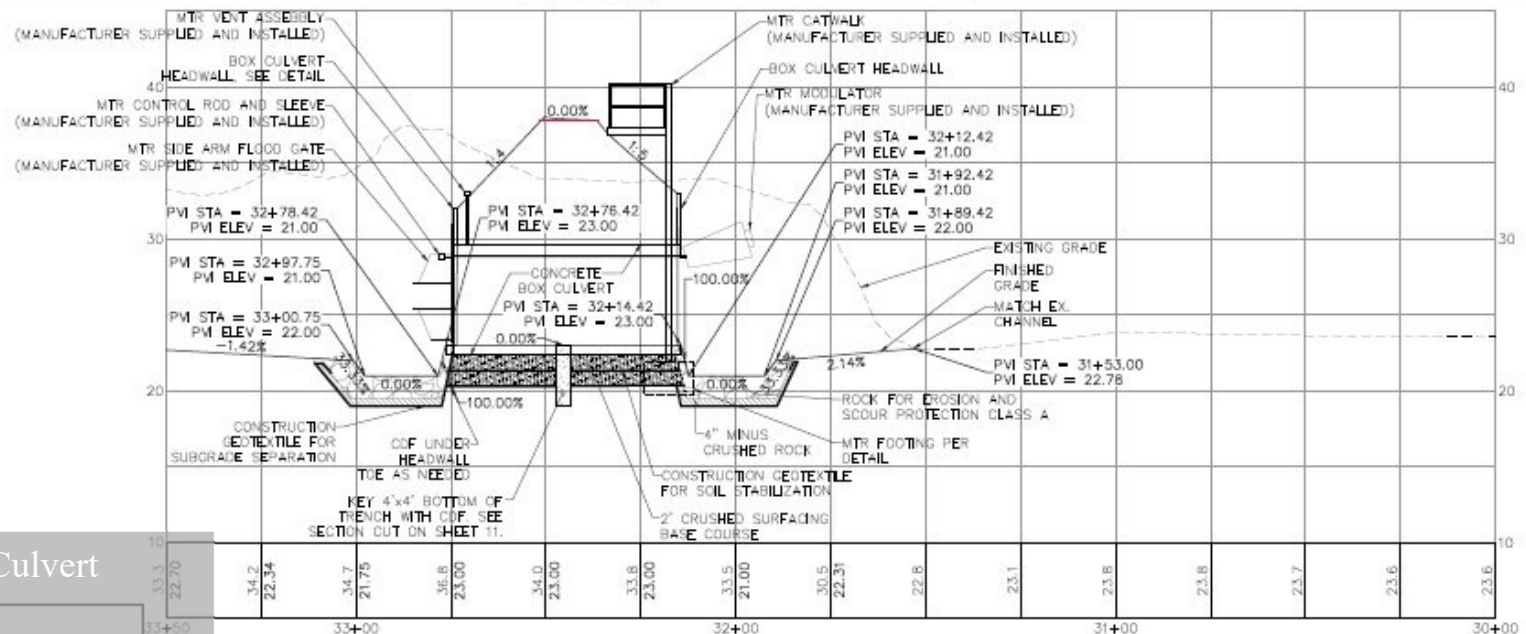
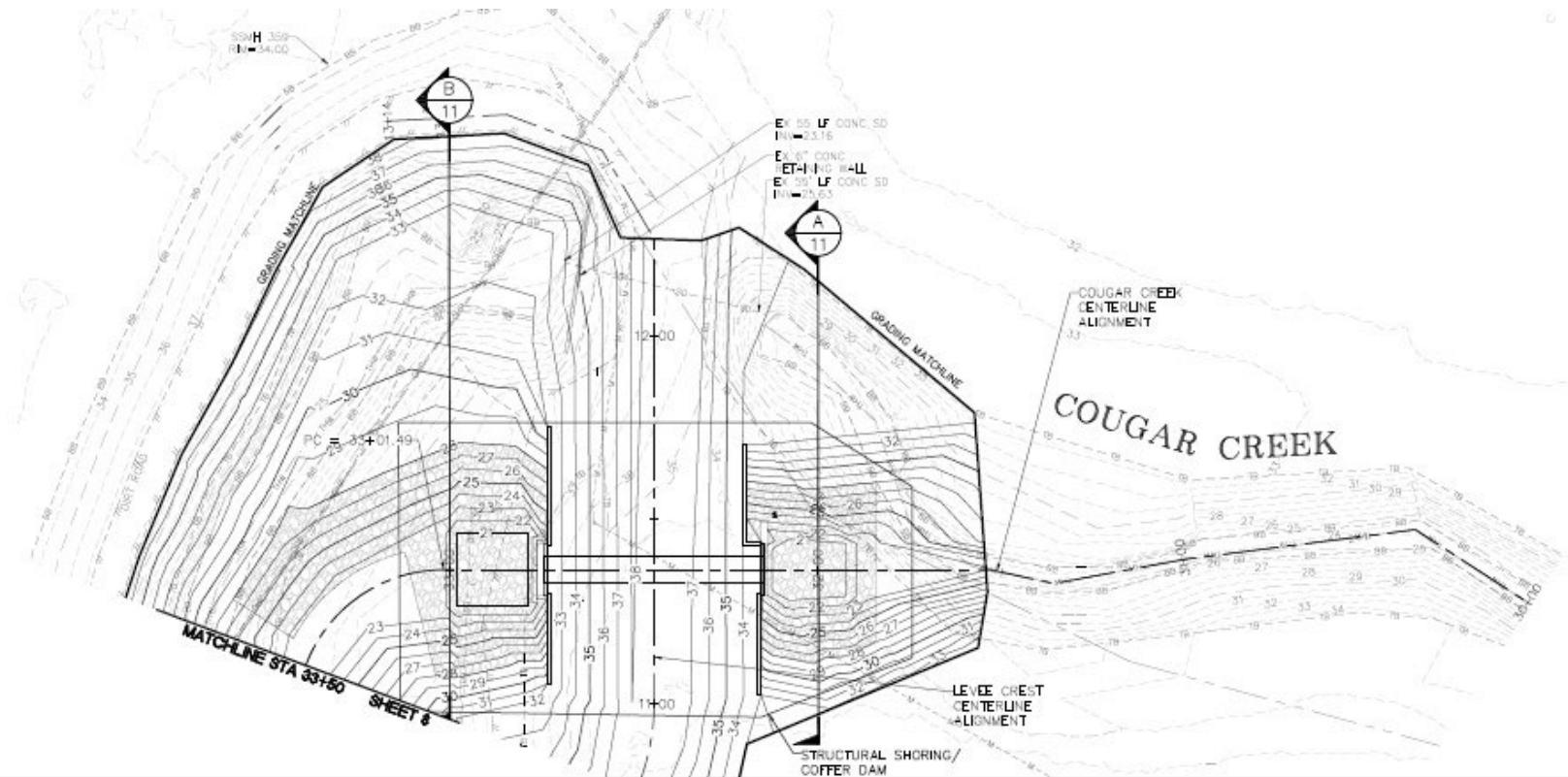


Deal Road Barrier Removal (2022)



Project Examples - In the works -





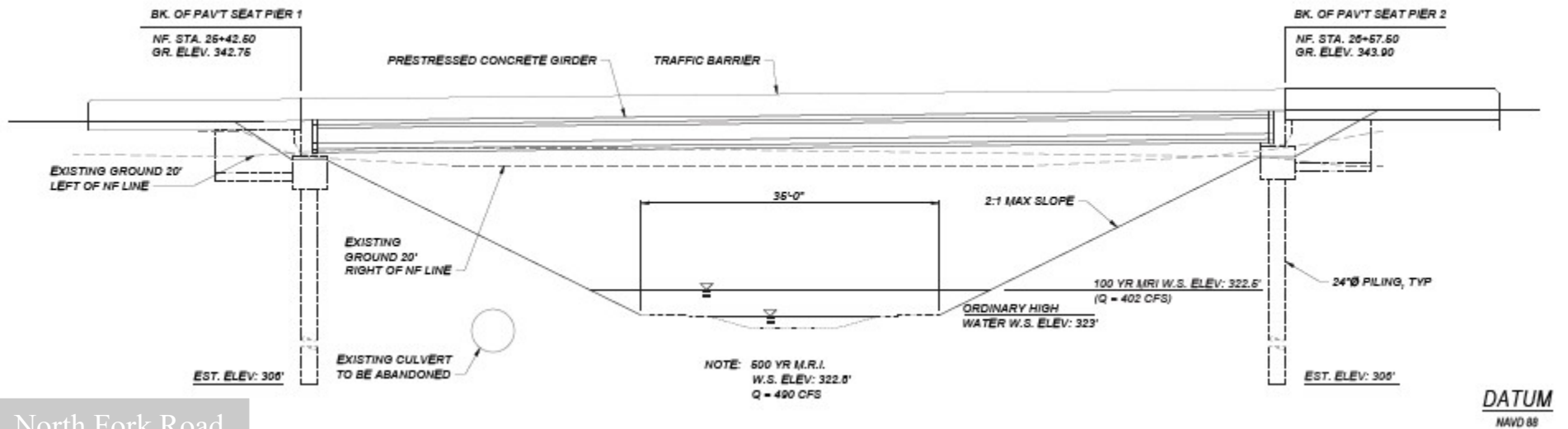
Cougar Creek Culvert Replacement



Birch Bay Lynden Road
California Creek

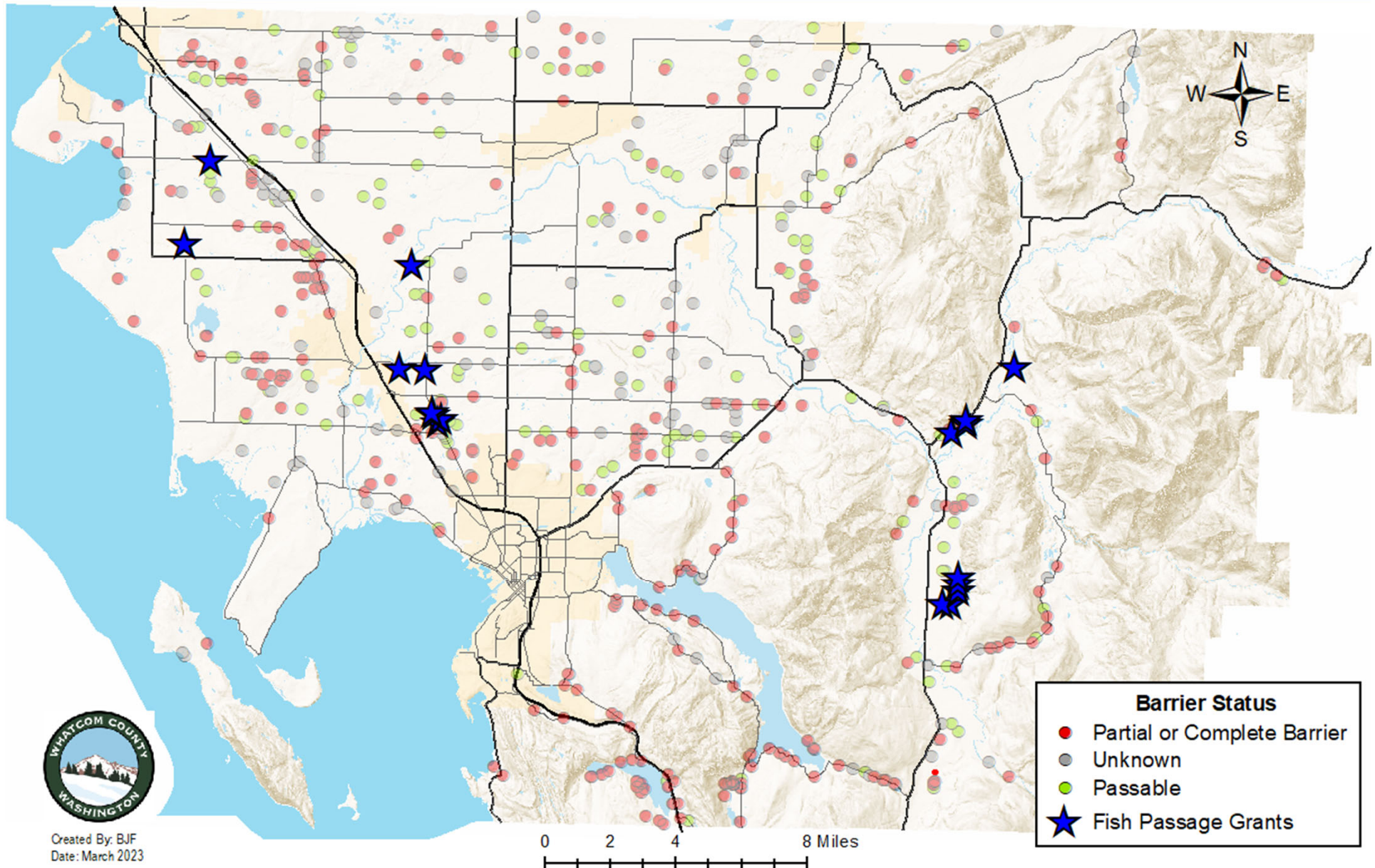


Birch Bay Lynden Road
California Creek (2021)



North Fork Road
Kenny Creek


Whatcom County Culverts - Current Grant Funding Pursuits -



Flood Control Zone District Whatcom County Public Works/ Fish Passage Grants

	Project Name	Funding Program	Administrative Agency	Habitat Gain (miles)	Project Cost and Components	Match	Status
1	Kenney Creek at North Fork Road	Brian Abbott Fish Barrier Removal Board (BAFBRB)	Washington State Recreation & Conservation Office (RCO)	4.25 miles	Design-\$523,000 Construction-\$3.5M	85/15	Design – Completed Construction - 2024
2	Capacity to Expedite WRIA 1 Culvert and Fish Barrier Prioritization, Design, and Implementation	Habitat Strategic Initiatives Leads (Puget Sound Partnership)	EPA National Estuary Program (NEP) administered through WDFW	TBD	\$798,579 <ul style="list-style-type: none"> • 2 years • 2 staff (0.75 FTE) • WRIA 1 coordination • Project design contract(s) • 	None	Notice of Award, available July 2023; 2-year grant
3	Black Slough Design & Permit	BAFBRB	RCO	~3.5 miles	\$247,500 <ul style="list-style-type: none"> • Contracted design & cost estimates for 5 sites • Permitting 	84/16	Subject to final State budget, available July 1, 2023
4	Neevel Levee Fish Passage/Cougar Creek Habitat Improvement Project	National Fish Passage Program BIL FY2023	US Fish & Wildlife Service	~ 8.5 miles	\$1,296,000 \$1,546,000 <ul style="list-style-type: none"> • Flood gate installation • In-stream large wood • Improved field/flood drainage • Levee improvements 	\$733k in “leveraged funds”	<i>Not selected for USFWS funding. Seeking alternative funding including a cost escalation; 2024 construction planned</i>
5	Whatcom County Fish Passage Restoration Portfolio Development	Culvert Aquatic Organism Passage (AOP) Program	US Dept. of Transportation – Federal Highway Administration	~29.5 miles	\$1,100,039 <ul style="list-style-type: none"> • Design for 11 sites with fish and PW priority 	80/20	TBD; possibly late '23 or early '24
6	<i>Birch Bay Lynden Road/California Creek Culvert Replacement*</i>	<i>Emergency Relief Program</i>	<i>US Dept. of Transportation – Federal Highway Administration</i>	<i>>10 miles</i>	<i>Temp Emergency Repair (11/21 floods): \$796,000</i> <i>Perm. Repair \$7,035,780</i> <ul style="list-style-type: none"> • <i>Not a barrier before flood</i> • <i>Repairs result in permit requirement to install fully passable structure</i> • <i>Obligates staff time</i> 	<i>Temp Emergency Repair: none</i> <i>Perm. Repair: 86.5/13.5</i>	<i>Temp Emergency repair and permanent repair design funds obligated (\$1,790,000). Remaining construction funds to be obligated following final design.</i>
			Projects Total	~56 miles	\$15,546,898		
			Grants Total		\$13,733,960		

*BB-Lynden was not inventoried as a barrier prior to Nov. 2021 floods but 2009 assessment may not reflect condition at time of failure. Final product will meet current passage standards and is an example of a project that was not planned, has to be done, and requires staff capacity to ultimately meet fish passage standards while improving flood resilience and better protecting the traveling public.



MOA & WDFW Rule Making Status Update

Next Steps Discussion

End of Presentation

