#### FISH BARRIER REMOVAL BOARD

### MEETING MATERIALS

APRIL 19, 2016

#### **Watershed Pathway**

Watershed Pathway update presentation

#### **Coordinated Project Pathway**

Project Ranking Criteria

Tier 2 Ranking Criteria

Top 30 Ranked Projects

**Match Requirement Guidance (draft)** 

### Watershed Pathway

### Watershed Pathway Updates

4/19/2016
Fish Barrier Removal Board
Presented by WDFW Staff

### **Approved HUC10 Nominations**

### **Lower Columbia**

Lower Cowlitz

#### Yakima River

Wilson/Cherry

### **Snake River**

- Grande Ronde Tribs
- Snake River Tribs

### **Upper Columbia**

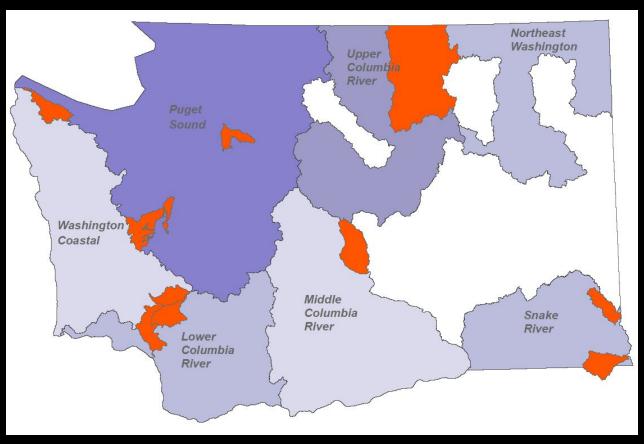
Okanogan

### **Puget Sound**

- Pilchuck River
- Goldsborough Creek
- Pysht River

### Coast

Newaukum

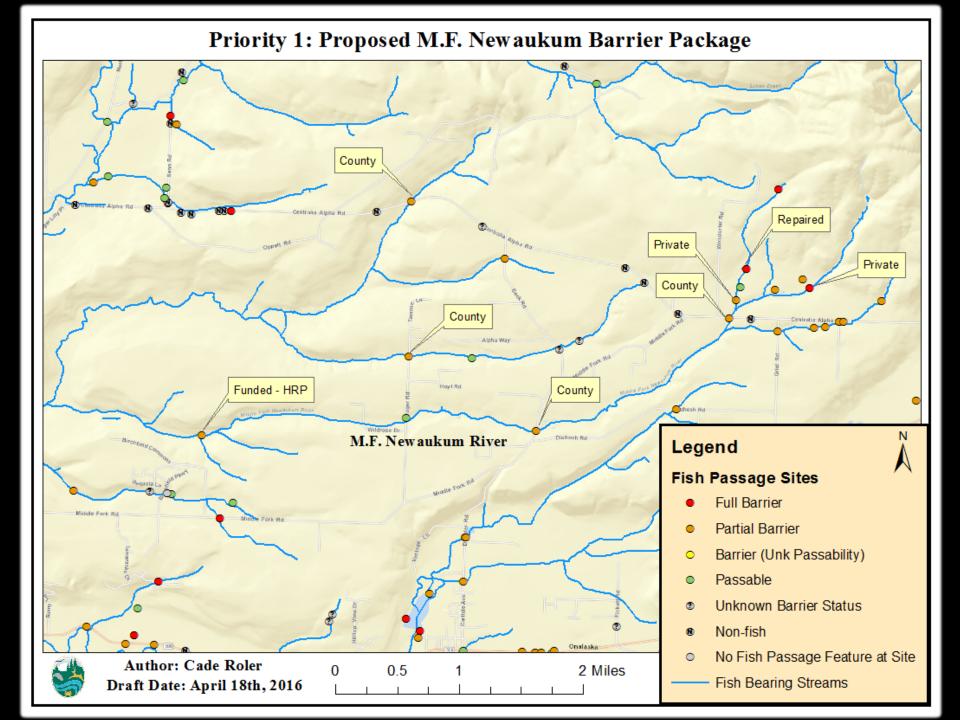


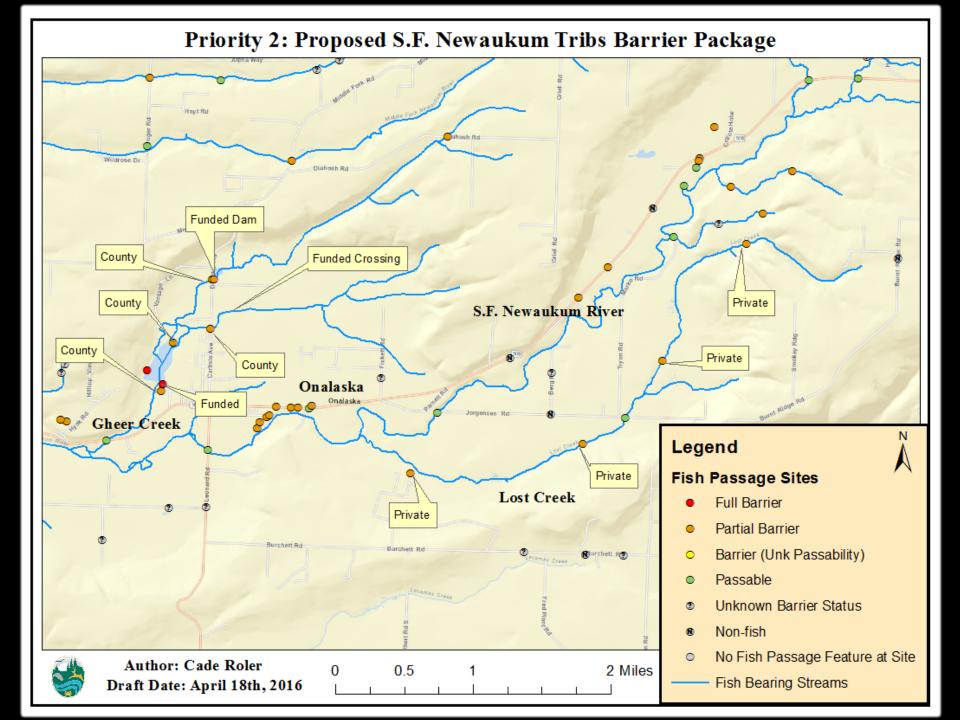
### Watershed Pathway Updates

- Progress and updates
  - Washington Coast Region Cade Roler
  - Columbia River Regions Cade Roler/Dave Collins
  - Puget Sound Gina Piazza

### Washington Coast Region

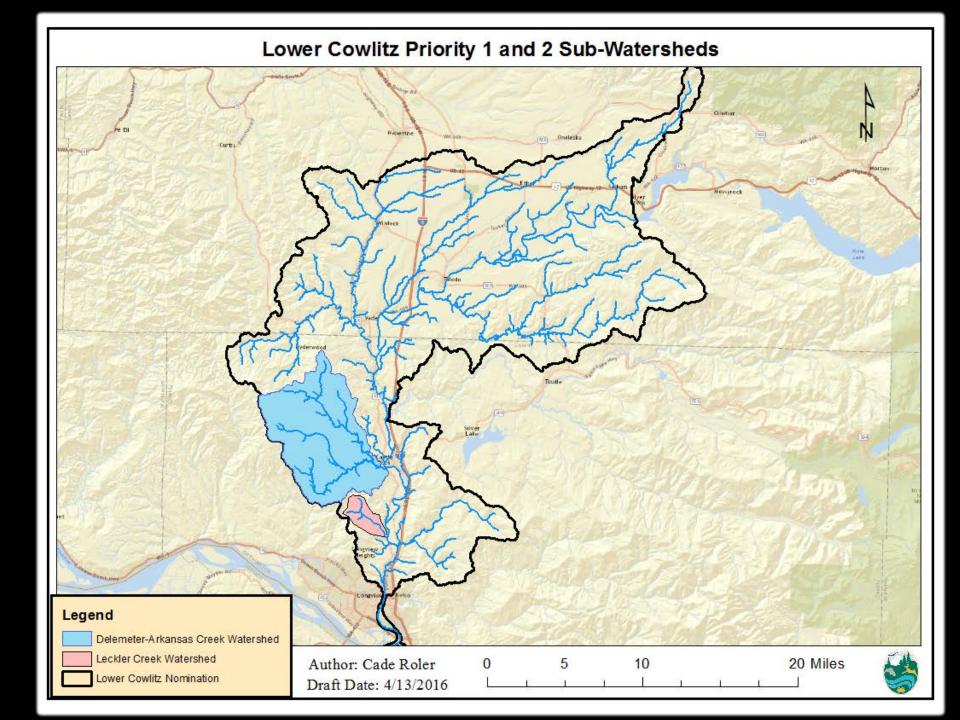
- Final Lead Entity approval of the two priority Newaukum Sub-Watersheds.
  - Priority 1: Middle Fork Newaukum and Tribs
    - 6 Barrier Culverts
      - 4 County and 2 Privates
    - Lewis County doing cost estimates and landowners agreement forms
    - Field Scoping completed by WDFW
  - Priority 2: South Fork Newaukum Tribs (Gheer Creek and Lost Creek)
    - 7 Barrier Culverts
      - 3 County and 4 Private
    - Lewis County doing cost estimates and landowner agreement forms
    - Field Scoping completed by WDFW
- Next Steps: Complete Cost Estimates, finalize maps and barrier package reports

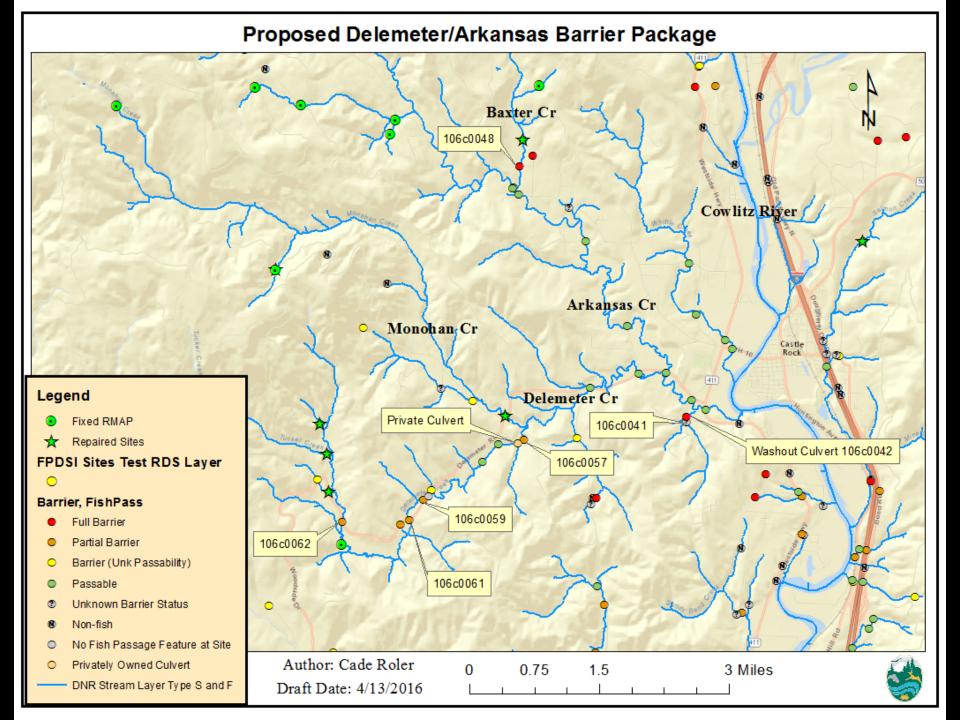




### Lower Columbia Fish Recovery Board

- Recovery Region approval of top 2 priority Sub-Watersheds.
  - Priority 1: Delemeter/Arkansas Watershed
  - Priority 2: Leckler Creek Watershed
- Field scoping completed by WDFW
- Waiting on feedback/final approval of barrier packages in two sub-watersheds
- Next Steps:
  - Finalize packages in priority areas after receiving feedback from the region.
  - Cost estimates





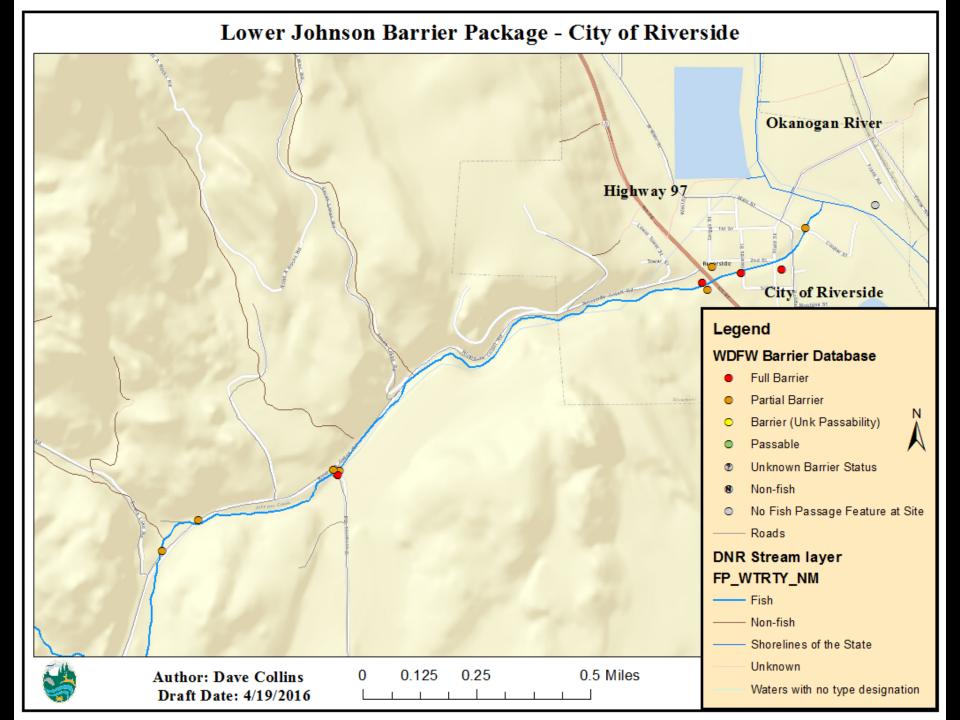
# Yakima Fish and Wildlife Recovery Board

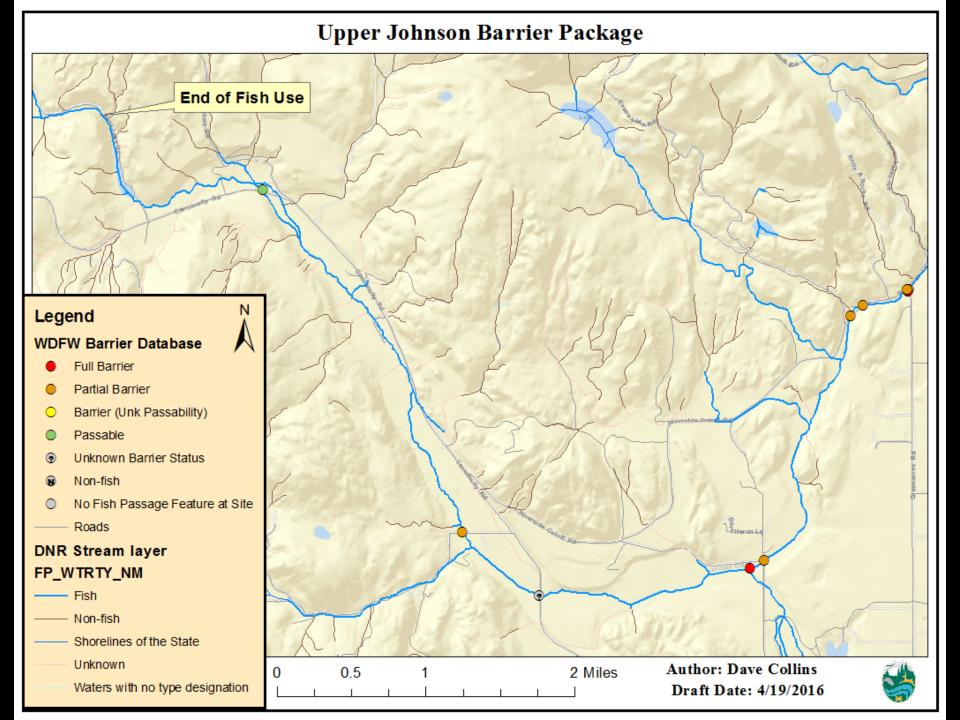
### Upper Columbia River Recovery Region

- Priority Sub-Watershed:
  - Okanogan River
    - Johnson Cr: Approximately 10 miles of habitat gain from the lowest barrier in the watershed upstream to the end of fish use.
    - Okanogan CD conducted a SRFB funded fish passage inventory in 2001.
    - All crossings reassessed and database updated April 2016.
    - Mix of city owned barriers downstream of the US 97 WSDOT barrier and county owned barriers upstream of US 97.
    - Stream reaches on private property inaccessible due to landowners denial of access to the stream.
    - High probability of additional barriers and irrigation diversions located on privately owned stream sections.

#### **Next Steps:**

- Final approval of barrier package by regional groups/partners.
- Outreach to City and County feature owners.
- Engage with WSDOT on correction of US 97 barrier.
- Cost estimates completed.
- Continued coordination with the Habitat Work Group.





### **Puget Sound Watershed Updates**

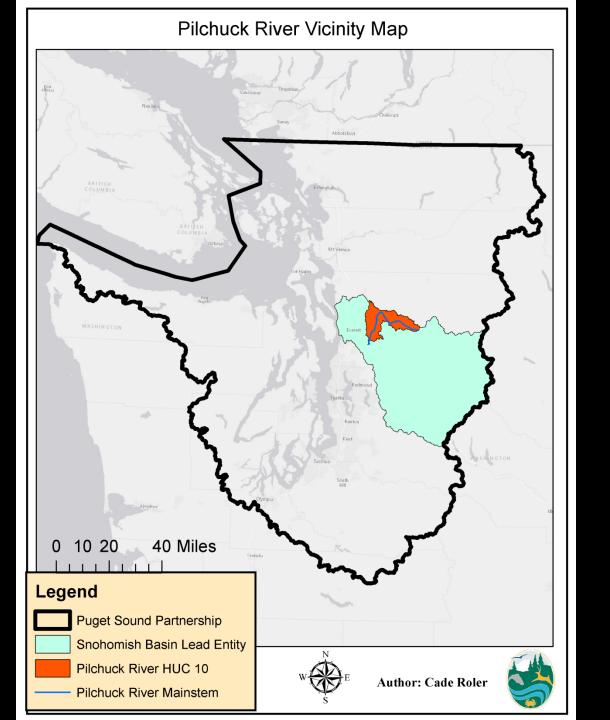
### Pilchuck River

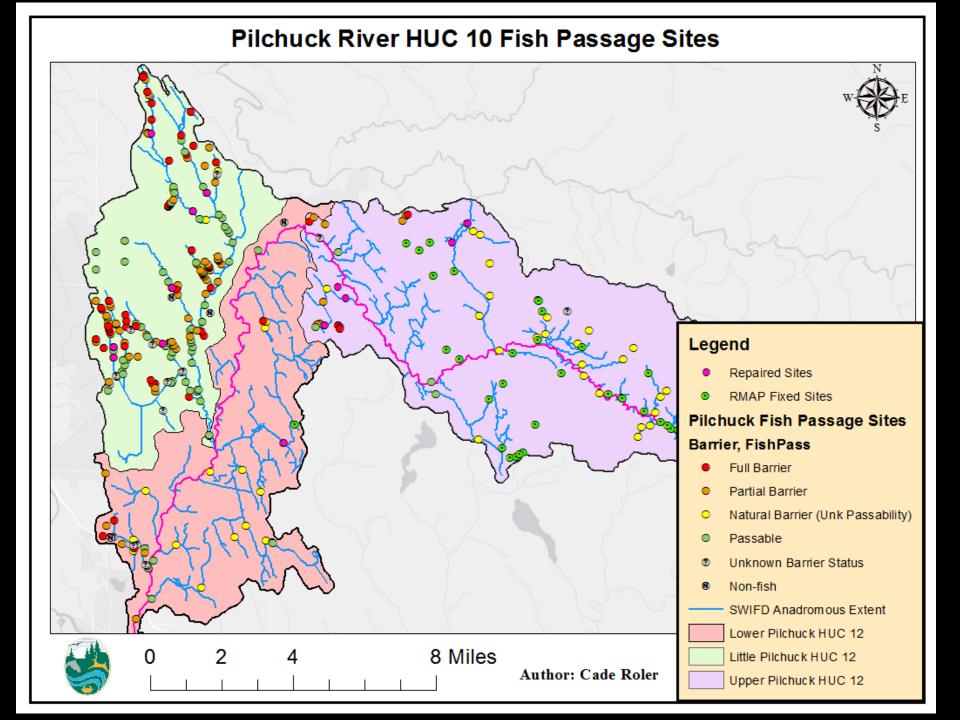
Priority #1

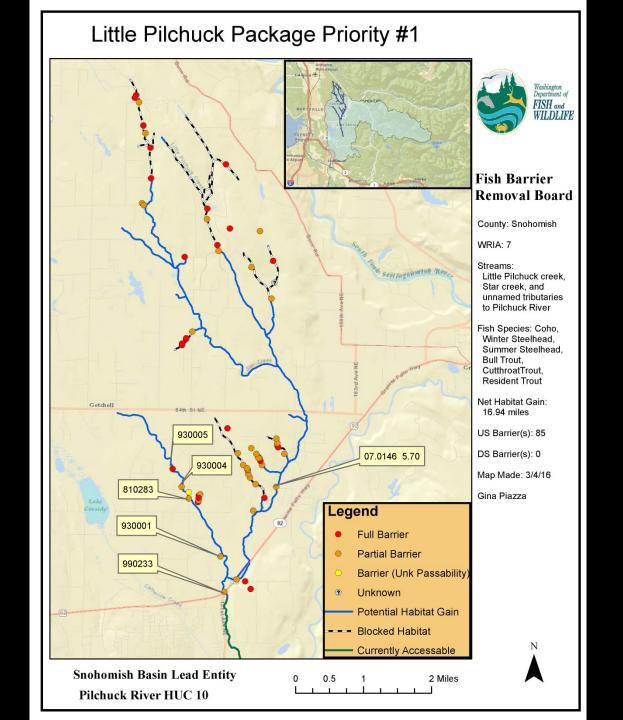
Little Pilchuck Creek (6 structures)

Priority #2

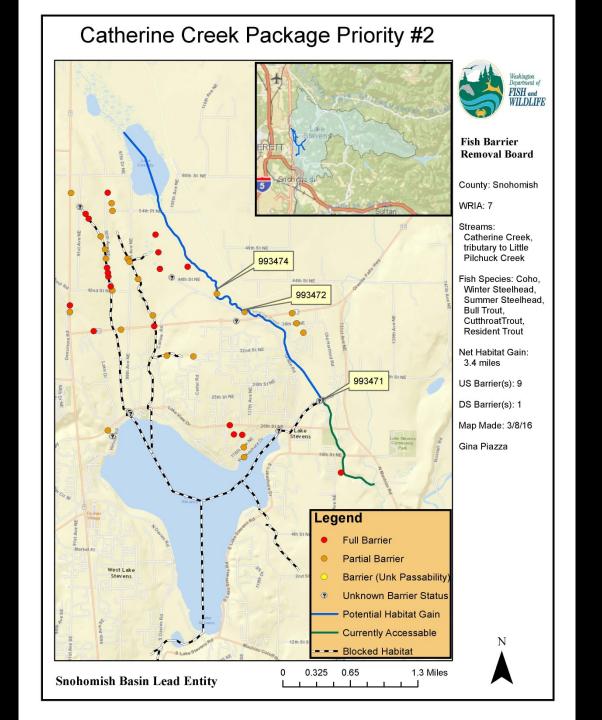
Catherine Creek (3 culverts)











#### Catherine Creek Package Priority #2 Washington Department of FISH and WILDLIFE Fish Barrier Removal Board County: Snohomish WRIA: 7 Streams: Catherine Creek, tributary to Little Pilchuck Creek 993474 Fish Species: Coho, Winter Steelhead, 993472 Summer Steelhead, Bull Trout, CutthroatTrout, Resident Trout Net Habitat Gain: 3.4 miles 993471 US Barrier(s): 9 DS Barrier(s): 1 Map Made: 3/8/16 Gina Piazza Legend West Lake Package #2 Culverts Potential Habitat Gain Currently Accessable -- Blocked Habitat 0.325 0.65 1.3 Miles **Snohomish Basin Lead Entity**

### Puget Sound Watershed Updates

### Pilchuck River

### 4/11/16 Pilchuck Working Group

Attendees: Adopt-a-stream, Tulalip tribe, Sound Salmon Solutions, Wild Fish Conservancy, Snohomish County, Snohomish Conservation District, WDFW, Washington Water Trust

- -Little Pilchuck Dam- feasibility and design?
- -Lake Stevens- Did not add to package

### Next Steps

- Priority 2 field verification
- Cost estimates

### Puget Sound Watershed Updates

## **Pysht River**

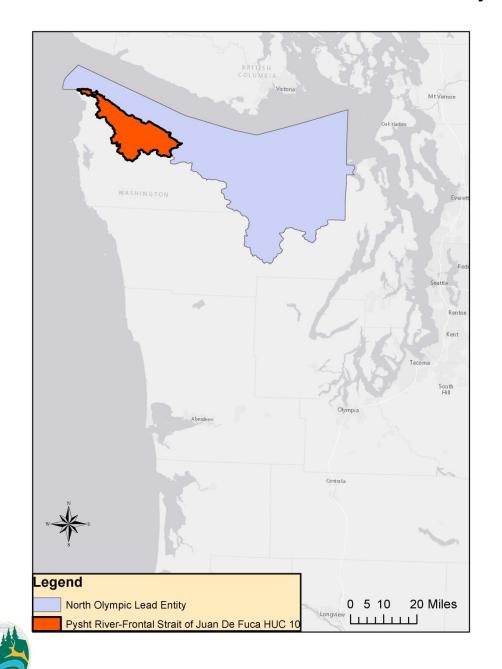
### Priority #1

Upper Hoko HUC 12 (3 culverts)

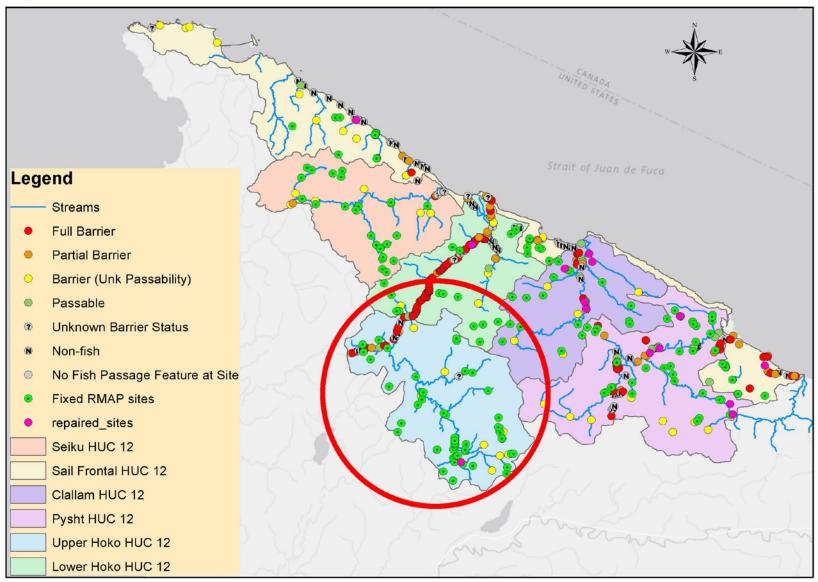
### Priority #2

Lower Hoko HUC 12 (9 culverts)

### Pysht River-Frontal Strait of Juan De Fuca HUC 10 Vicinity Map

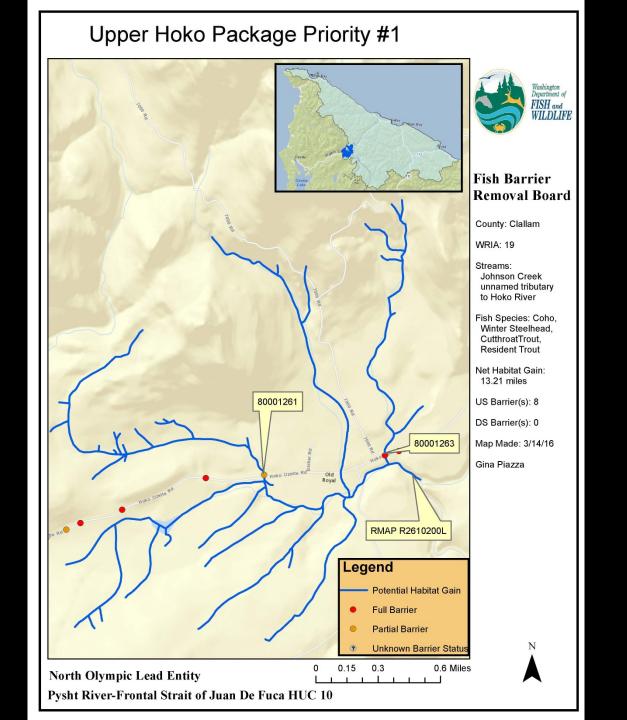


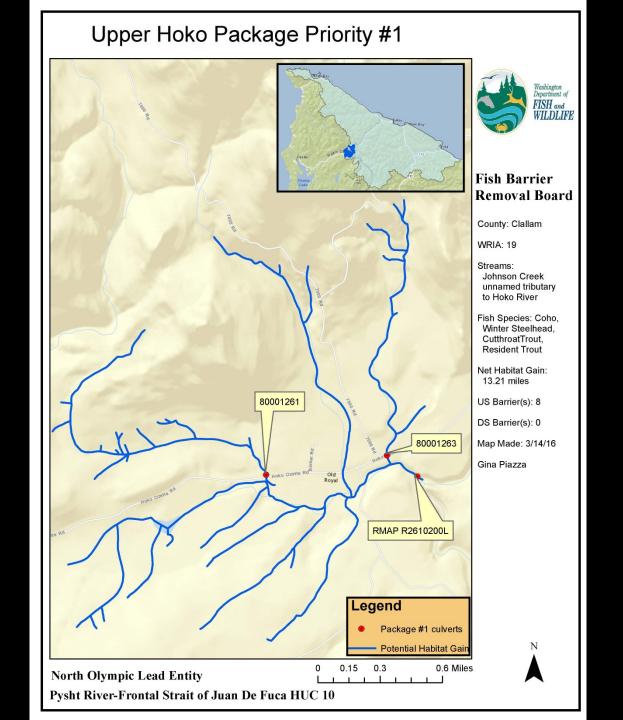
### Pysht River-Frontal Strait of Juan De Fuca HUC 10 Barriers



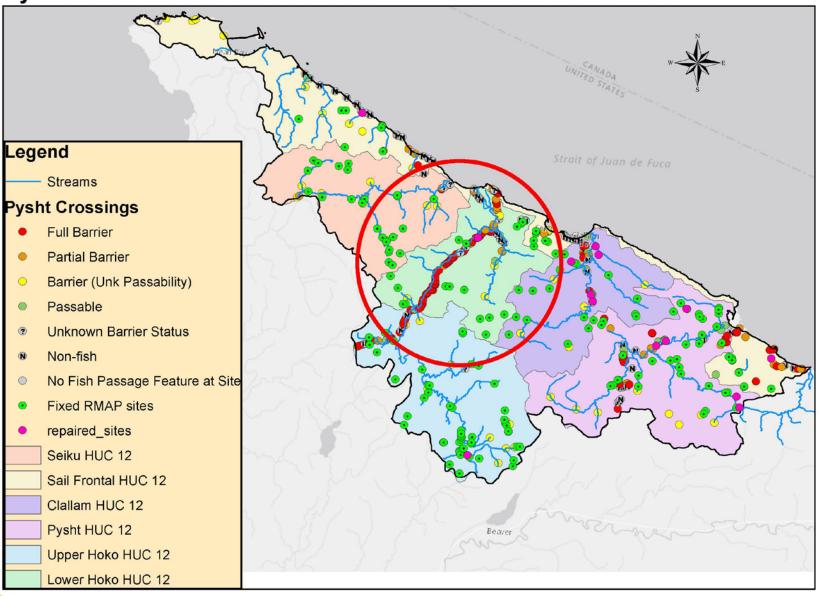


0 1.75 3.5 7 Miles



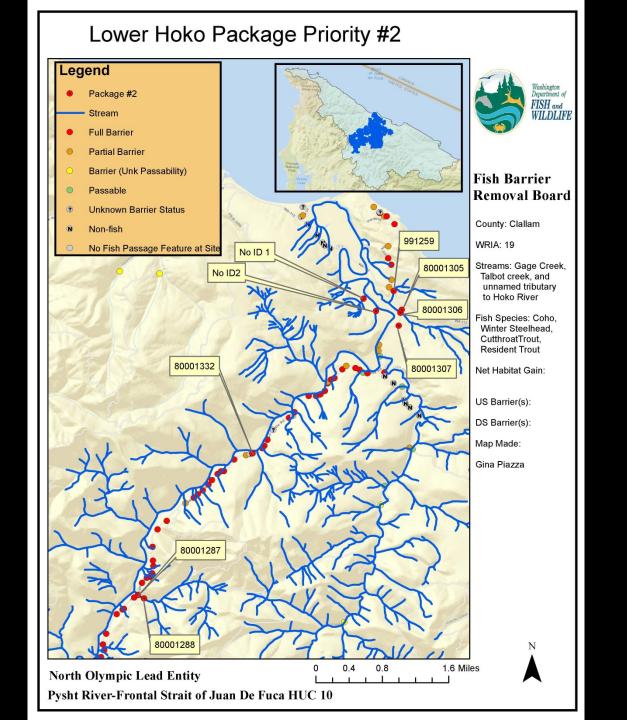


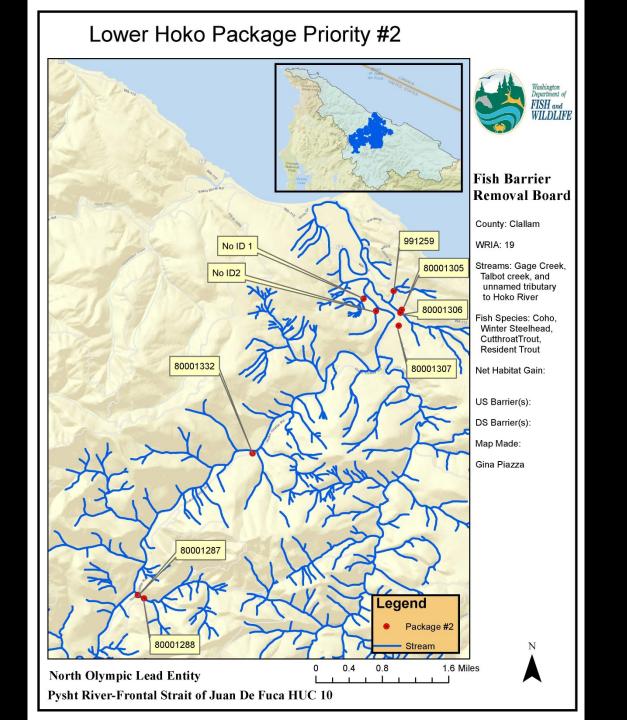
### Pysht River-Frontal Strait of Juan De Fuca HUC 10 Barriers





0 1.75 3.5 7 Miles





### Puget Sound Watershed Updates

# **Pysht River**

- Next steps
  - Field Verifications of Priority 2's
  - Finalize cost estimates

### Puget Sound Watershed Updates

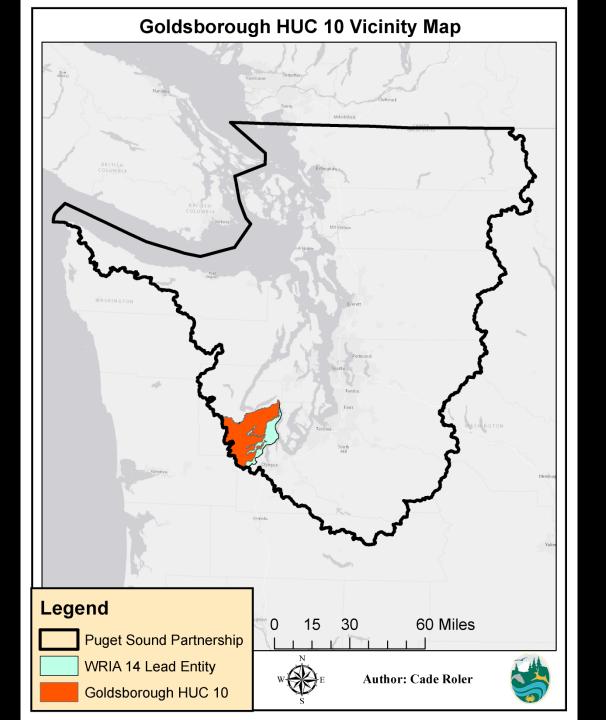
# Goldsborough Creek

### Priority #1

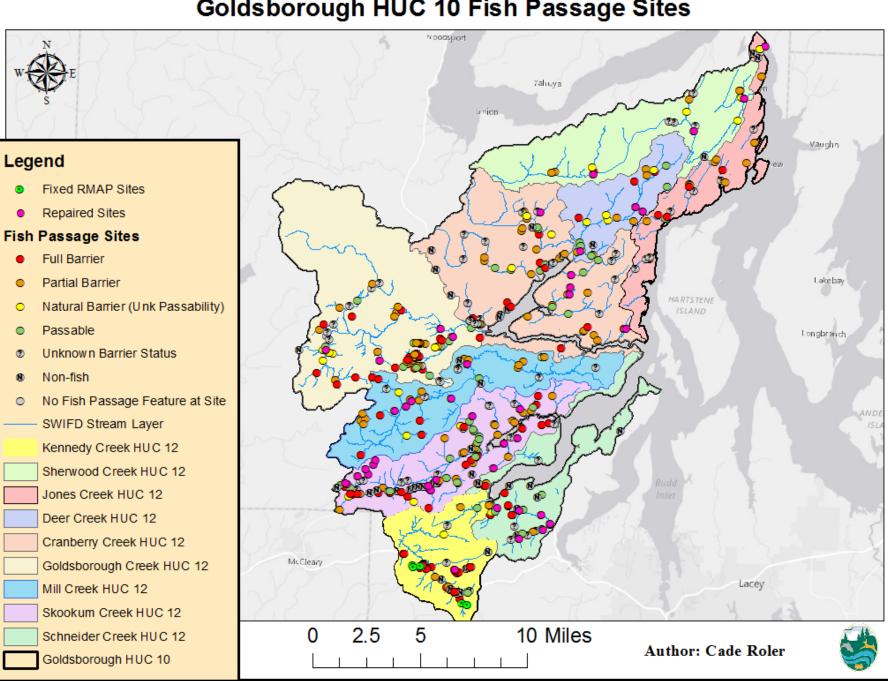
Goldsborough (10 culverts)

### Priority #2

Independent tributaries- (6 culverts) just received Independent Tributaries



### Goldsborough HUC 10 Fish Passage Sites

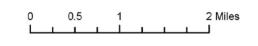


#### Goldsborough Package Priority #1 Washington Department of FISH and WILDLIFE 102 Fish Barrier Shelton/Matlock Rd Removal Board County: Snohomish 115 MC302 **WRIA: 14** Streams: 115 MC209 Goldsborough creek, Cofffee, Likes Creek, unnamed tributaries 115 MC197 Fish Species: Coho, Winter Steelhead, Fall Chinook, Fall Chum, CutthroatTrout, 115 MC031 Resident Trout Net Habitat Gain: 115 MC093 US Barrier(s): DS Barrier(s): Legend Map Made: 4/18/16 Package #1 culverts Gina Piazza Barrier, FishPass 115 MC033 **Full Barrier** 115 MC182 132061785 Partial Barrier 115 MC035 Unknown Barrier Status Stream 2 Miles **WRIA 14 Lead Entity** Goldsborough HUC 10

#### Goldsborough Package Priority #1 Washington Department of FISH and WILDLIFE 102 Fish Barrier Shelton/Matlock Rd Removal Board County: Snohomish 115 MC302 WRIA: 14 Streams: 115 MC209 Goldsborough creek, Cofffee, Likes Creek, unnamed tributaries 115 MC197 Fish Species: Coho, Winter Steelhead, Fall Chinook, Fall Chum, CutthroatTrout, 115 MC031 Resident Trout Net Habitat Gain: 115 MC093 US Barrier(s): DS Barrier(s): Map Made: 4/18/16 Gina Piazza 115 MC033 115 MC182 Legend 132061785 115 MC035 Package #1 culverts Stream

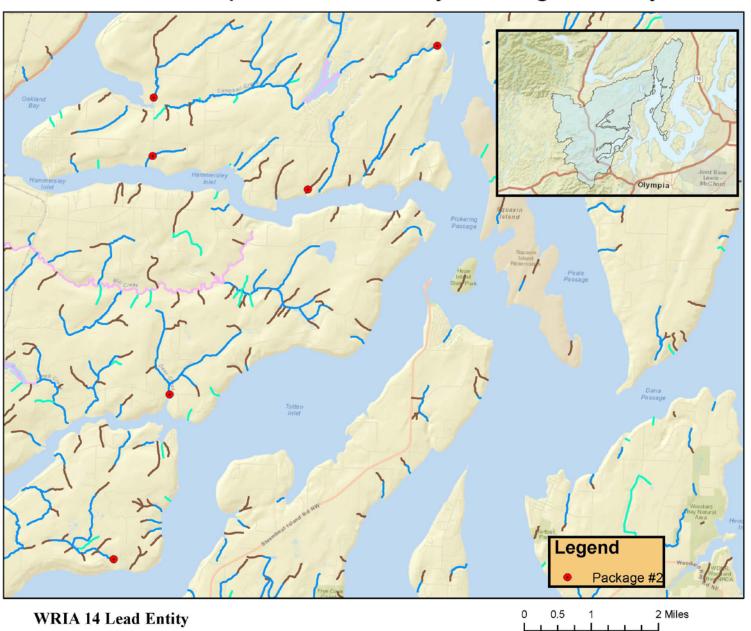
**WRIA 14 Lead Entity** 

Goldsborough HUC 10





### Independent Tributary Package Priority #2





#### Fish Barrier Removal Board

County: Snohomish

WRIA: 14

Streams:

Fish Species:

Net Habitat Gain:

US Barrier(s): DS Barrier(s):

Map Made: 4/19/16

Gina Piazza



### Puget Sound Watershed Updates

# Goldsborough Creek

- Next steps
  - Finalize Priority #2's
  - Finish Field Verifications
  - Finalize cost estimates

### Coordinated Project Pathway

# Coordinated Project Pathway Project Ranking Criteria

#### **Tier 1 Ranking** - Top 50 projects with highest linear gain

#### 1. Linear Gain (10 points)

0.00 – 0.99 miles – 1 point

1.00 – 1.49 miles – 2 points

1.50 – 1.99 miles – 3 points

2 - 2.99 miles - 4 points

3 - 3.99 miles - 5 points

4 – 4.99 miles – 6 points

5 – 5.99 miles – 7 points

6 – 7.99 miles – 8 points

8 – 10.99 miles – 9 points

≥11 miles – 10 points

#### 2. Project Readiness (8 points)

Score of 1 – 1 point

Score of 2 – 3 points

Score of 3 – 5 points

Score of 4 – 6 points

Score of 5 – 8 points

#### 3. Barrier Status (8 points)

Total barrier – 8 points

33% passable – 6 points

67% passable – 3 points

Unknown passability – 2 points

100% passable – 0 points

#### 4. Number of anadromous species/stock (4 points)

1 point for each anadromous species

5. **Status Rating** – Highest level of protection for a present species (4 points)

Unwarranted – 1 point

Species of Concern/Candidate – 2 points

Threatened – 3 points

Endangered or >1 threatened species – 4 points

6. **Level of Coordination** - Restoration within the last 5 years (5 points)

No recent restoration – 0 points

1 project – 1 point

2 projects – 2 points

3-4 projects – 3 points

5-6 projects – 4 points

≥7 projects – 5 points

Draft Date: April 18<sup>th</sup> 2016

# Coordinated Project Pathway Tier 2 Ranking Criteria

#### Tier 2 Ranking - Top 30 projects

- Cost per Linear Mile (Total Map Measured Potential Gain): Surveys are showing less net gain then when map measured.
- 2. Level of Coordination Cade will bring a list of completed and ongoing restoration projects in the sub-watershed for the board to review and consider.
- 3. Habitat Quality Actual net gain weighted by habitat quality index scores.
- 4. Barrier Severity Based on reassessments
- 5. Number of Downstream Barriers

#### **Additional Criteria?**

- Updated project readiness information
- Board Review Points

### Coordinated Project Pathway - Top 30 Ranked Projects Draft Date: March 15th 2016

Barrier	Nominating Entity	Stroom Name	FBRB ID (Tot. # of	Tot. Pack. Net	Net Gain	Net Gain	<b>Project Readiness</b>	Passability	Anadromous	Species Status	Coordination	Total	Donk
Owner Type	Nominating Entity	Stream Name	Barrs. in Pack.)	Gain (mi.)	(miles)	Score	Score	Score	<b>Species Score</b>	Rating Score	score	Score	Rank
	WRIA 19 North Olympic Peninsula and		•				•	•	•	'	'		ļ
City	City of Port Angeles	Valley Creek	65.1 (1)	6.05	6.05	8	8	6	3	3	1	29	į 1
County	Kitsap County	Chico Creek	63.1 (1)	14.41	14.41	10	5	3	3	3	4	28	1 2
Private	King County	Big Soos Creek	53.1 (2)	13.74	13.37	10	1	3	4	4	3	25	3
County	Cowlitz County and LCFRB	Turner Creek	70.1 (1)	3.9	3.9	5	5	8	3	3	0	24	4
County	Mason County	John's Creek	59.2 (2)	9.51	9.37	9	3	3	3	3	2	23	5
County	Skagit Watershed Council	Fisher Creek	41.1 (6)	9.73	4.34	6	3	2	4	4	4	23	6
County	WRIA 1 Lead Entity	Kenney Creek	36.1 (1)	3.62	3.62	5	3	6	4	4	1	23	7
County	Jefferson County	Thorndyke Creek	64.1 (1)	10.02	10.02	9	3	3	3	3	1	22	8
County	Chehalis L.E.	Allen Creek	22.2 (1)	6.95	6.95	8	3	8	2	1	0	22	9
County	Lewis County	Cedar Creek	7.1 (1)	6.09	6.09	8	3	6	2	1	2	22	10
		Middle Fork											i
Private	Chehalis L.E.	Newaukum River	28.1 (1)	7.64	7.64	8	3	6	2	1	1	21	11
County	LCFRB	<b>Little Salmon Creek</b>	6.1 (1)	6.41	6.41	8	3	3	2	4	1	21	12
Private	Skagit Watershed Council	Starbird Creek	41.3 (6)	9.73	2.71	4	3	6	2	3	3	21	13
County	LCFRB	Mason Creek	1.2 (5)	10.59	5.46	7	3	0	4	4	2	20	14
County	LCFRB	Baxter Creek	4.1 (1)	5.36	5.36	7	3	2	3	4	1	20	15
County	Skagit Watershed Council	Red Cabin Creek	38.1 (1)	4.63	4.63	6	3	2	4	4	1	20	16
County	Cowlitz County	Erick Creek	32.1 (1)	3.31	3.31	5	3	6	3	3	0	20	17
County	Skagit Watershed Council	Mannser Creek	37.1 (3)	3.59	2.95	4	3	2	4	4	3	20	18
		Unnamed to Mason											1
Private	LCFRB	Creek	1.4 (5)	10.59	1.79	3	3	6	3	4	1	20	19
Private	Skagit Watershed Council	Fisher Creek	41.4 (6)	9.73	1.37	2	3	6	2	3	4	20	20
City	City of Renton	Panther Creek	52.2 (2)	2.06	0.96	1	3	8	3	4	1	20	21
County	Mason County	Sherwood Creek	60.1 (1)	18.53	18.53	10	1	2	3	3	0	19	22
County	LCFRB	Leckler Creek	3.2 (2)	4.97	4.23	6	3	2	3	3	2	19	23
		East Fork Walker											i l
Federal	Skagit Watershed Council	Creek	40.1 (2)	1.51	1.39	2	3	3	4	4	3	19	24
County	LCFRB	Mason Creek	1.5 (5)	10.59	2.74	4	3	3	3	4	1	18	25
City	WRIA 8 Lead Entity	Ebright Creek	49.1 (1)	1.95	1.95	3	3	2	4	4	2	18	26
County	Lewis County	Lost Creek	8.1 (1)	1.86	1.86	3	3	6	2	1	3	18	27
County	LCFRB	Leckler Creek	3.1 (2)	4.97	0.74	1	3	6	3	4	1	18	28
		unnamed Trib to											ļ
County	Chehalis L.E.	Gheer Creek	29.1 (1)	3.8	3.8	5	3	6	2	1	0	17	29
		unnamed Trib to											į
County	Chehalis L.E.	Gheer Creek	30.1 (1)	3.4	3.4	7	3	6	2	1	0	17	30



Cade Roler, Justin Zweifel: WDFW

# Match Requirement Guidance DRAFT

Draft Date: 4/18/2016

### Fish Barrier Removal Board Match Requirement Guidance

#### **Match Requirement Overview**

- Applicants must provide a minimum of 25 percent of each project value, known as "match" from non-FBRB funds per RCW 77.95.170.
- Matching resources may include cash, bond funds, grants (unless prohibited by the FBRB), in-kind labor, equipment/materials, or adjacent fish passage projects occurring within the same sub-watershed (define sub-watershed?).

#### **Match Requirement Specifications**

#### **Match Timing**

- The required 25 percent match must be identified during the project award period.
  - O If funding is identified during the project award period but will not be certified until after the award period, documentation must be provided to the FBRB regarding where the match is coming from and how it is being used towards the FBRB funded projects. The FBRB will then need to approve the funding to be used as match.
    - What documentation should be necessary?
  - o Option #2: All match must be certified at the time of the FBRB award period.
    - What will be done/needed to certify the match?
- Other fish passage projects being implemented concurrently with the FBRB award year may also be used as match.
  - Option #2: Projects implemented within the prior year of the proposed FBRB project may also be used as match.
  - Option #3: Projects implemented within the prior 2 years of the proposed FBRB project may also be used as match.

Draft Date: 4/18/2016

#### Using adjacent fish passage projects as match

- Option #1: These may account for 20% of the required 25%
- Option #2: These may account for 15% of the required 25%
- Option #3: These may account for all of the match requirement
- Option #4: Stepped approach depending on who the barrier owner is:
  - Private: can use adjacent project for all their required 25%
  - o Local Government: can use adjacent project for 15% of required 25%
  - State Government: can use adjacent project for 10% of required 25%
  - Federal Government: cannot use adjacent projects for required 25% match
- Adjacent projects can be sponsored by other groups and still be considered as match.
  - WSDOT, Conservation Districts, Regional Fish Enhancement Groups, Local Governments, etc.
    - This promotes partnerships
- Documentation of project expenditures being considered for match will need to be provided.
- Eligibility of adjacent restoration projects for match must be approved by the FBRB and will be reviewed on a case-by-case basis.

#### **Decision Points**

- Agreement on principles of matching resources
- Match identification vs certification timing in conjunction with FBRB award periods
- What documentation should be necessary for confirming match resources?
- Adjacent Fish Passage Projects within the Sub-watershed match options.
  - Options 1-4 or additional option
  - o Do we need to define Sub-Watershed?
- Should we consider a strategy/policy for contacting the other project sponsors or funders if their projects were being considered as match for an FBRB grant?
  - Would help determine eligibility; see if the dollars are being used as match for another restoration program (No double matching).