ASRP Draft Scenario Acres, Miles and Costs

Several Information Sources

Scenarios created from several information sources:

- ASRP Science Review Team expertise
- Summer field trips throughout the basin
- Scientific research funded through the Strategy
- Model analyses
- Input and expertise of local practitioners
- Fall 2018 Science Symposium feedback
- Input received on Nov. 2017 ASRP Initial Document

Draft Scenarios

Level of effort varies by scenario

Scenarios differ by:

- River miles restored
- Acres of riparian/floodplain restored
- Number and location of barriers removed

Scenarios are additive, not alternatives

Draft Scenario Costs

Developed range of costs for each scenario

Included in costs:

- Multiple actions included in restoration
- Protection mechanisms
- Barrier removals
- Project management costs

Not Included in costs:

- Program management

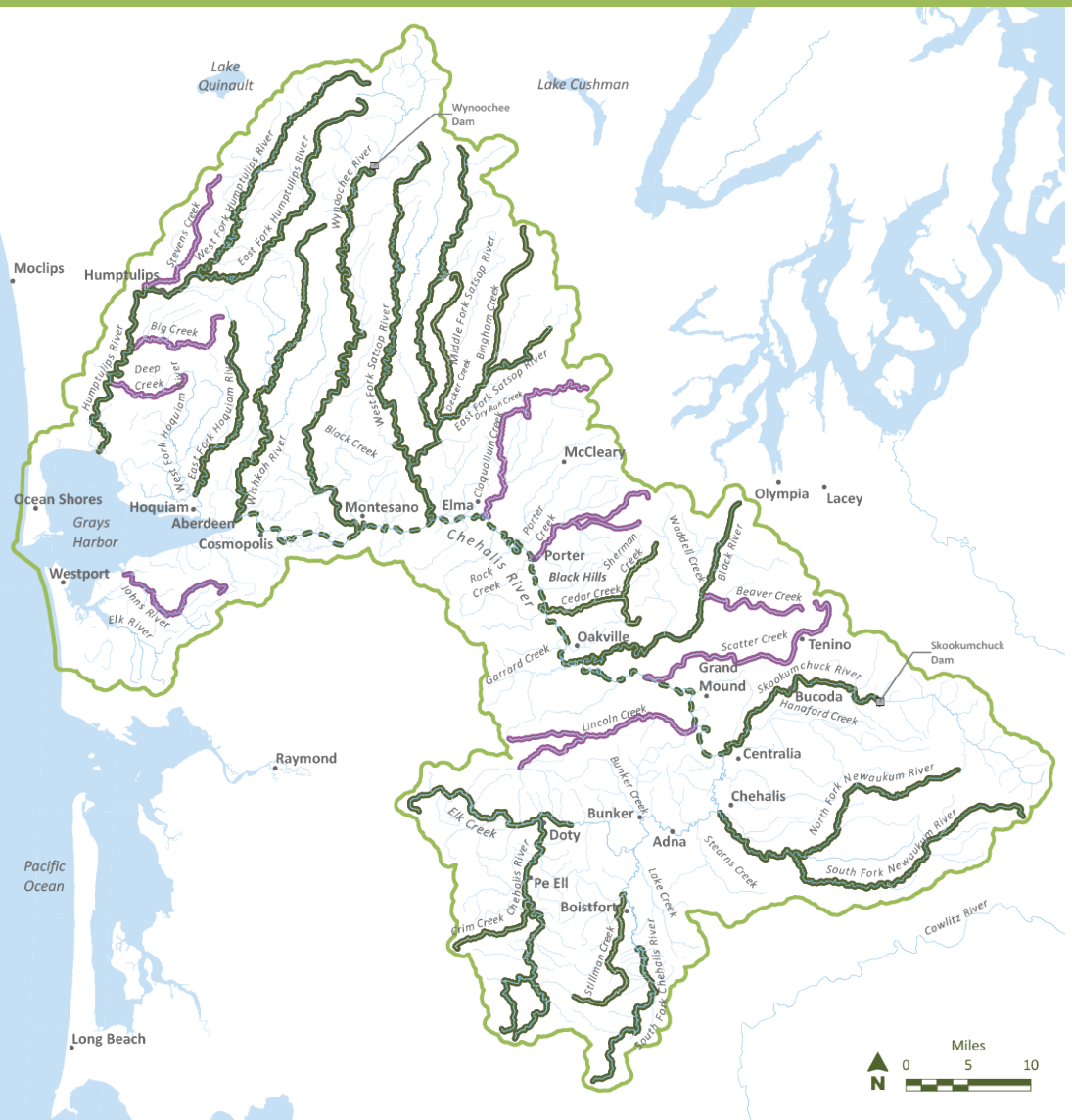
Scenario 1, Protect and Enhance Core Habitats

Protect and enhance core habitat areas

River Restoration = 220 miles
Riparian/Floodplain Restoration = 9,600 acres
Barriers = 115
Average Cost = $442M

Rivers and Streams
Study Area
Rivers Proposed for Protection/Restoration
Scenario 1: 220 miles
Rivers with Restoration at Nodes Only

Scenario 2, Protect Core Habitats and Restore Key Opportunities



Protect and enhance core habitats and expand to best restoration opportunities to benefit multiple species

River Restoration = 315 miles

Riparian/Floodplain Restoration = 10,900 acres

Barriers = 250

Average Cost = $541M

Rivers and Streams

Study Area

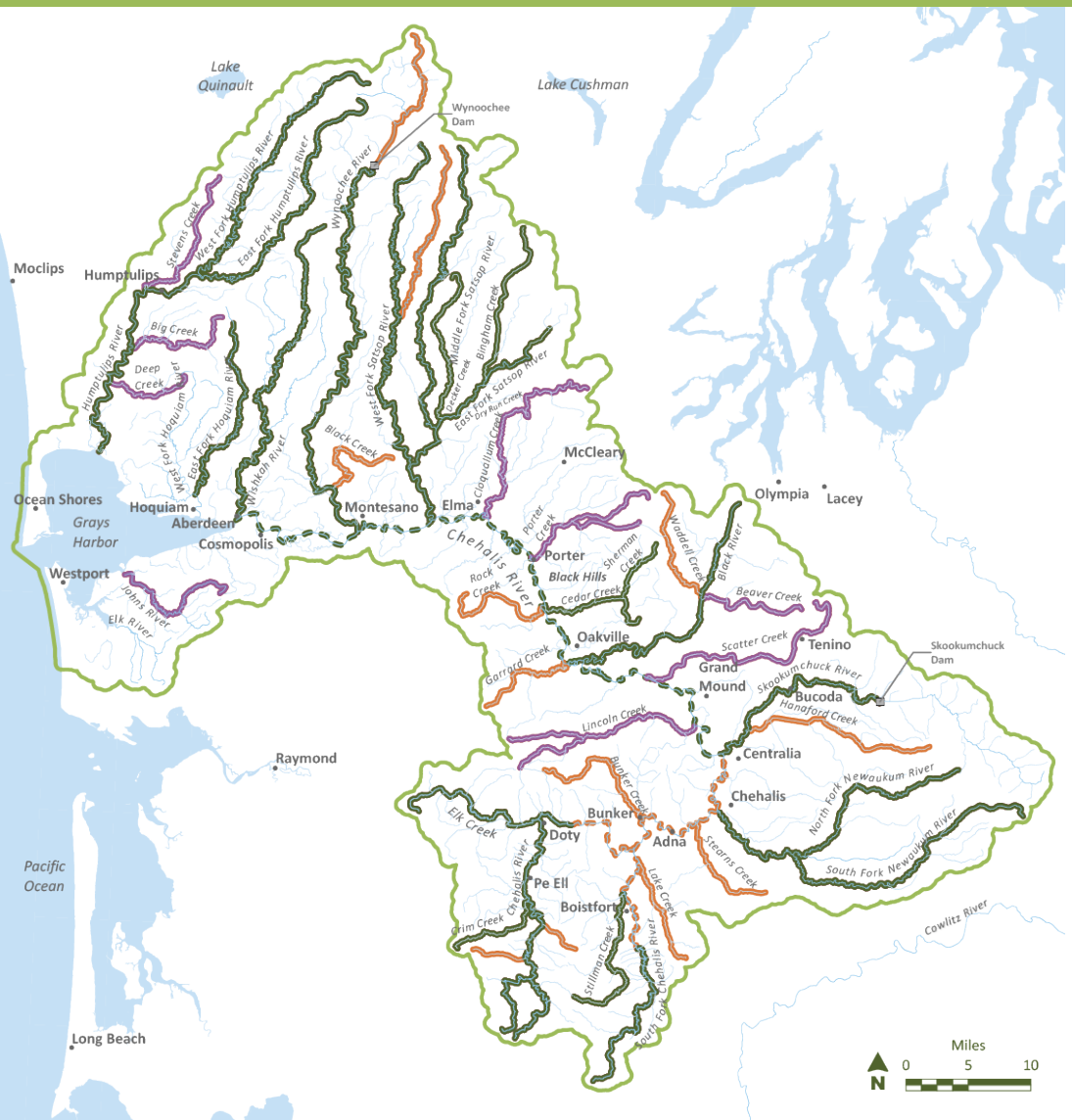
Rivers Proposed for Protection/Restoration

Scenario 1 Rivers also Included in Scenario 2: 260 miles

Additional Rivers Proposed for Scenario 2: 55 miles

Rivers with Restoration at Nodes Only

Scenario 3a, Protect Core Habitats and Expand Distribution



Protect and enhance core habitats and increase spatial and life history diversity

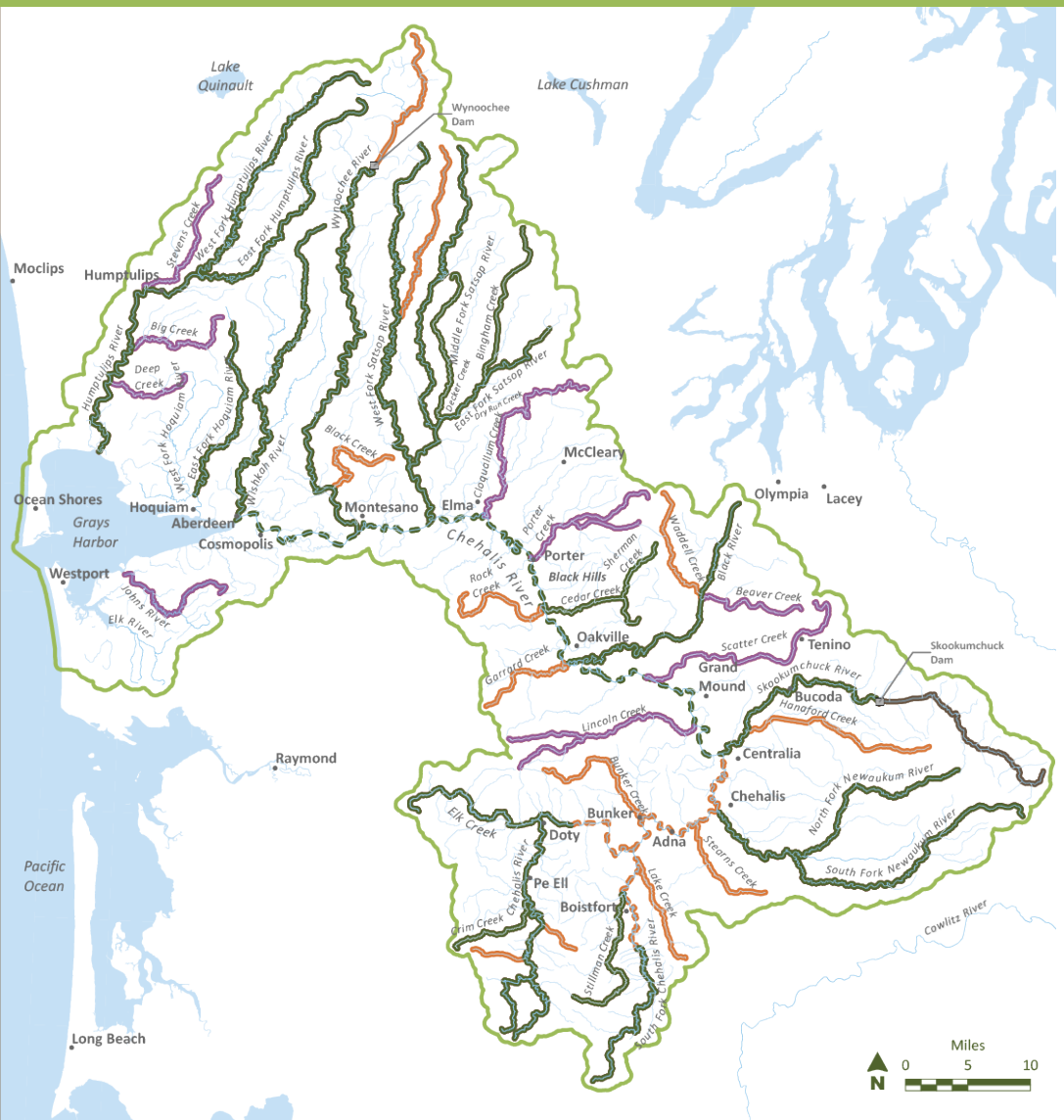
River Restoration = 430 miles
Riparian/Floodplain Restoration = 15,000 acres
Barriers = 350
Average Cost = $762M

Rivers and Streams
Study Area

Rivers Proposed for Protection/Restoration

- Scenario 1 Rivers also Included in Scenario 3a: 293 miles
- Scenario 2 Rivers also Included in Scenario 3a: 66 miles
- Additional Rivers Proposed for Scenario 3a: 79 miles
- Rivers with Restoration at Nodes Only

Scenario 3b, Protect Core Habitats, Expand Distribution, and Dam Removal



Protect and enhance core habitats and increase spatial and life history diversity

Removes Skookumchuck Dam

River Restoration = 440 miles
Riparian/Floodplain Restoration = 15,000 acres

Barriers = 350

Average Cost= $892M

Rivers and Streams

Study Area

Rivers Proposed for Protection/Restoration

Scenario 1 Rivers also Included in Scenario 3b: 293 miles

Scenario 2 Rivers also Included in Scenario 3b: 66 miles

Scenario 3a Rivers also Included in Scenario 3b: 79 miles

Additional Rivers Proposed for Scenario 3b: 10 miles

Rivers with Restoration at Nodes Only

Preliminary Cost Estimates

Restoration Scenario	Miles of Channel Restored	# of Fish Barriers Removed	Miles Opened Up with Barrier Removal	Riparian & Floodplain Acres Restored	Cost Range		
					Low	Average	High
#1, Protect and Enhance Core Habitats for All Species	220	150	61	9,600	$293M	$442M	$608M
#2, Protect and Enhance Core Habitats and Restore Best Opportunities	315	250	157	10,900	$366M	$541M	$735M
#3a, Protect and Enhance Core Habitats and Expand Diversity and Distribution	430	350	254	15,000	$516M	$762M	$1.3B
#3b, Protect and Enhance Core Habitats, Expand Diversity/Distribution, Remove Skookumchuck Dam	440	351	264	15,000	$610M	$892M	$1.2B

Conclusions

1. We face a declining baseline looking toward the future. The hole will only get deeper, and prospects for success less certain, unless actions are taken sooner than later.
2. ASRP focuses on improving habitat capacity. We have confidence in the actions to take and locations to take them in the basin's freshwater environment
3. It will take a significant investment over the next couple decades to make the difference that is needed.

Next Steps & Discussion

Small group Discussion Questions

1. From both early action reach examples and ASRP scenarios, what is most inspiring to you?
2. What concerns do you have about the early action projects and scenarios?
3. What more information is important for your consideration of the ASRP, your organization and other important interest groups?