



# ASRP Accomplishments, Project Portfolio Review, Steering Committee Perspectives, Board Subcommittee Shareout, and Project Funding Approval Request

Chehalis Basin Board Meeting  
January 5, 2023



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# ASRP 2022 ACCOMPLISHMENTS AND 2023 LOOK AHEAD

# ASRP — 2022 YEAR IN REVIEW

- Regional Implementation Teams including 14 eligible sponsor organizations
  - Monthly meetings
  - Initiate project pipeline process
  - Learning opportunities
- Onboarded the Technical Review Team (TRT)
- Initiated the Technical Advisory Group (TAG; formerly the SRT)
- Project portfolio
  - Reviewed, approved and funded nearly 20 new projects in less than 12 months

# ASRP — 2022 YEAR IN REVIEW

- Early Action Reach progress
  - Completed EF Satsop and Wynoochee river projects
  - Completed season one at Stillman Creek
- Planning and design to support 2023 summer construction for 3+ projects
- Community and partner engagement
  - ASRP Symposium – April 2022
  - Meetings and site visits with landowners and community groups (more to come)
- Cultural Resource and Permitting workshops – April and May 2022
- RFQ to expand eligible sponsor list (almost complete)

# ASRP — 2023 LOOK AHEAD

- Active Initiatives and Strategy Development
  - Landowner incentives
  - Capacity building
  - Protection strategy
  - Adaptive Management framework for Monitoring and Adaptive Management Program
  - Community involvement and engagement
    - Chehalis film festival (Feb/Mar 2023)
  - Learning opportunities
    - Lessons learned workshop (Feb 2023), site visits and community meetings
  - Estuary strategy

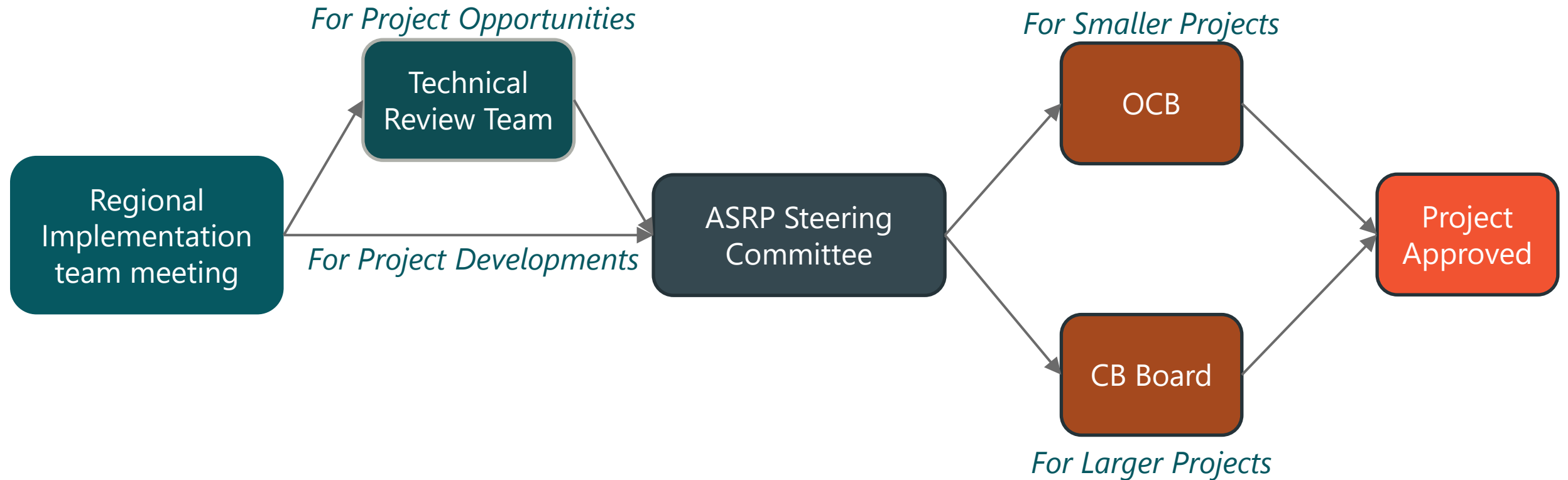
# ASRP — 2023 LOOK AHEAD

- Active Initiatives and Strategy Development (continued)
  - Species focus: spring Chinook and Oregon Spotted Frog
  - Materials (wood and plants) sourcing
- Connection to Integrated and Other Efforts
  - Floodplain Acquisition Program
  - All Hs and Predation
  - Erosion Management Program
  - Skookumchuck Dam Analysis

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# ASRP PROJECT PORTFOLIO REVIEW

# HOW DO WE APPROVE PROJECTS?

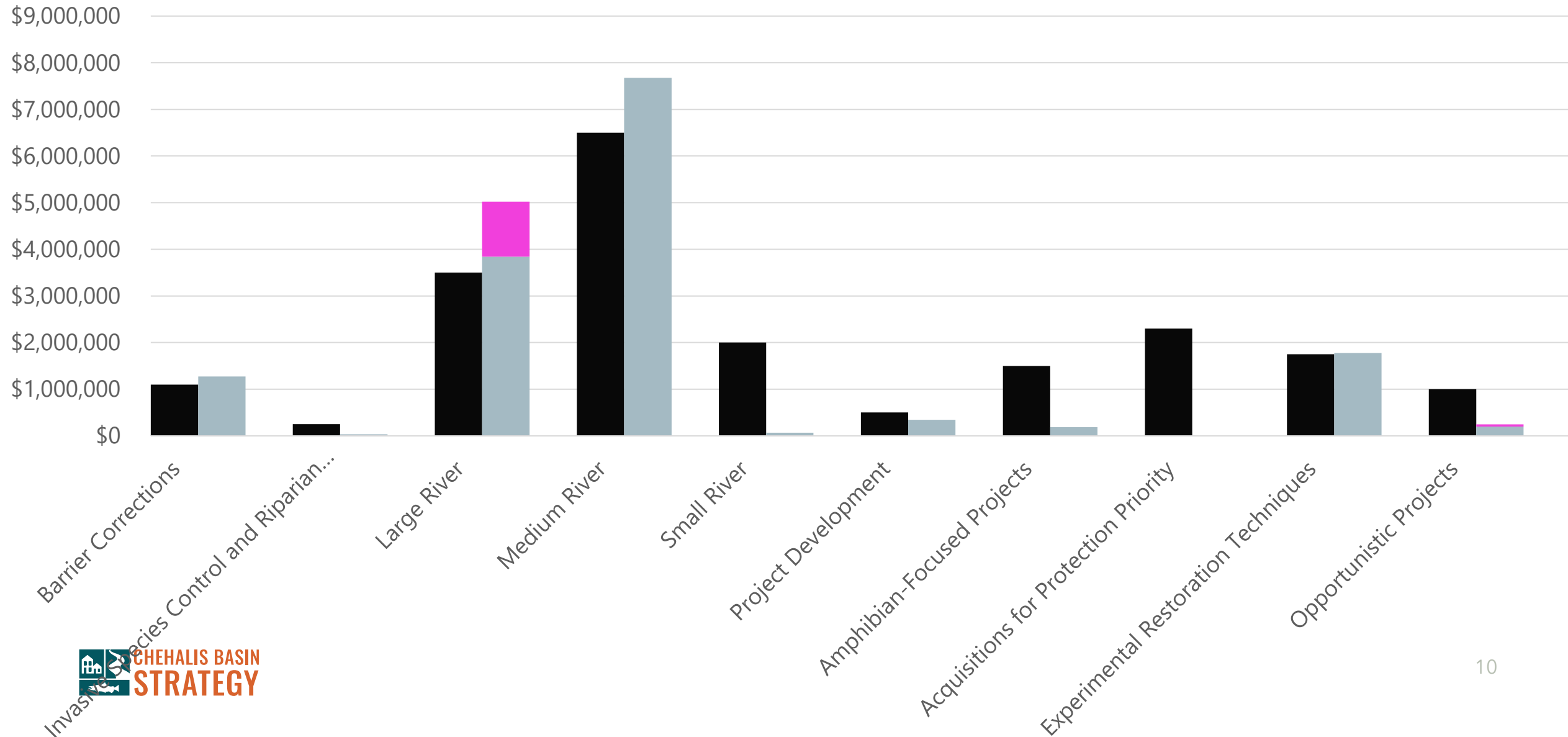




Sub-Action Type	Relative Emphasis in Budget	Obligated	OCB/Board pending	SC Vote	Remaining Unobligated
Barrier Corrections	\$1,100,000	\$1,272,848	\$0	\$0	-\$172,848
Invasive Species Control and Riparian Plantings	\$250,000	\$34,079	\$0	\$0	\$215,921
Large River	\$3,500,000	\$3,842,339	\$1,180,397	\$0	(\$342,339)
Medium River	\$6,500,000	\$7,674,839	\$0	\$0	(\$1,174,839)
Small River	\$2,000,000	\$67,235	\$0	\$0	\$1,932,765
Project Development	\$500,000	\$343,608	\$0	\$0	\$156,392
Amphibian-Focused Projects	\$1,500,000	\$188,049	\$0	\$0	\$1,311,951
Acquisitions for Protection Priority	\$2,300,000	\$0	\$0	\$0	\$2,300,000
Experimental Restoration Techniques	\$1,750,000	\$1,776,400	\$0	\$0	(\$26,400)
Opportunistic Projects	\$1,000,000	\$200,000	\$45,000	\$0	\$800,000
TOTAL	\$21,250,000	\$15,399,397	1,225,397	\$ -	\$5,850,603

## Existing and Potential Budget Obligations

■ Relative Emphasis in Budget   ■ Obligated   ■ SC Review   ■ SC Vote   ■ OCB/Board Pending



# ASRP PROJECT PORTFOLIO

- From 2015 to 2022:
  - 81 completed and in-progress projects
  - \$58.7 million invested in project development, design, and implementation
- 2022 ASRP Projects:
  - Previously presented on:
    - Newman Creek Restoration Design
    - Satsop Rivermile 2.5-5.0 reach scale construction
    - Chehalis Rivermile 15.5-17.5 reach-scale design and planting
    - West Rocky Prairie Oregon Spotted Frog restoration
    - Lucas Creek Protection project development

# NEW ASRP PROJECTS SINCE OCTOBER 2022: \$481,306

Project Name	Description	Location	2021-2023 Funding	Sponsor
Grays Harbor County				
Schafer Creek Headwaters Restoration	Installation of post-assisted log structures along river miles 8-9	Schafer Creek	\$200,000	Grays Harbor Conservation District
Cloquallum Project Development	Project development through landowner engagement and developing restoration ideas/options.	Cloquallum Creek sub-basin, Grays Harbor and Mason counties	\$115,658	Ducks Unlimited, Mason Conservation District, Grays Harbor Conservation District
Thurston County				
Oregon spotted frog maintenance and monitoring	Invasive species management and hydrologic monitoring of OSF habitat.	Allen, Mima, and Salmon Creeks; Thurston County	\$62,698	WDFW
Oregon Spotted Frog Translocation Project Development	Project development through habitat assessment, landowner engagement and planning for possible OSF translocation to expand distribution.	Black River sub-basin, Thurston County	\$57,950	WDFW, Thurston Conservation District
Lewis County				
Coal Creek Fish Barrier Removal	Design and construction to remove fish barrier on Coal Creek.	Coal Creek, Lewis County	\$45,000	Trout Unlimited



Project type:

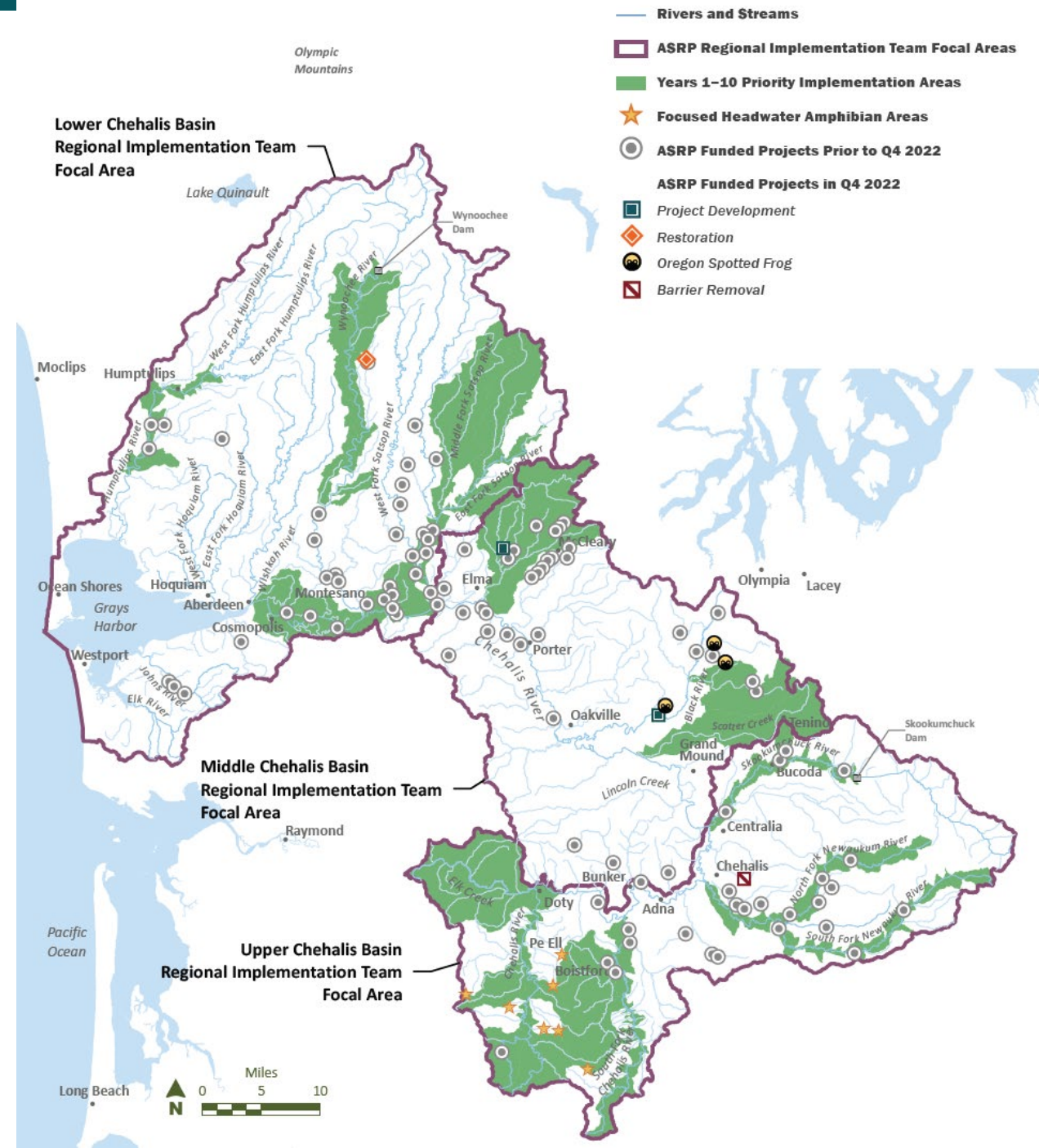
Restoration

Project Development

Amphibian

Barrier Correction

# ASRP PROJECTS





# ASRP PROJECTS

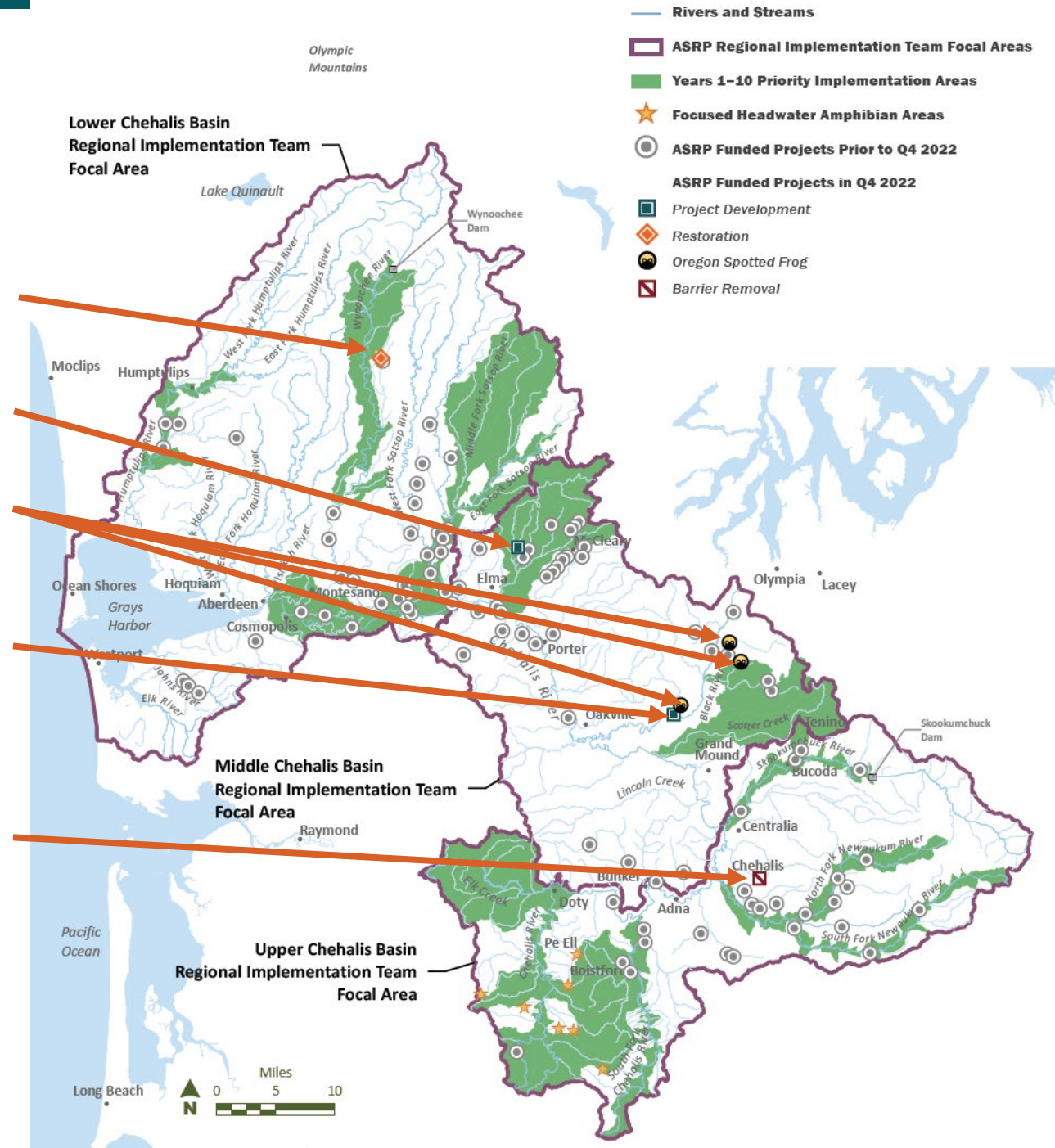
Schafer Creek Headwaters

Cloquallum Project Development

Oregon Spotted Frog M+M

Oregon Spotted Frog Translocation

Coal Creek Barrier Correction



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# QUESTIONS AND DISCUSSION

# ASRP STEERING COMMITTEE MEMBER PERSPECTIVES

**Dave Bingaman**

**Nicole Czarnomski**

**Colleen Parrott**

Non-voting Steering Committee members:

- Kirsten Harma, Chehalis Lead Entity
- Nat Kale, Dept. of Ecology
- Hope Rieden, Dept. of Natural Resources
- Anthony Waldrop, Grays Harbor Conservation District



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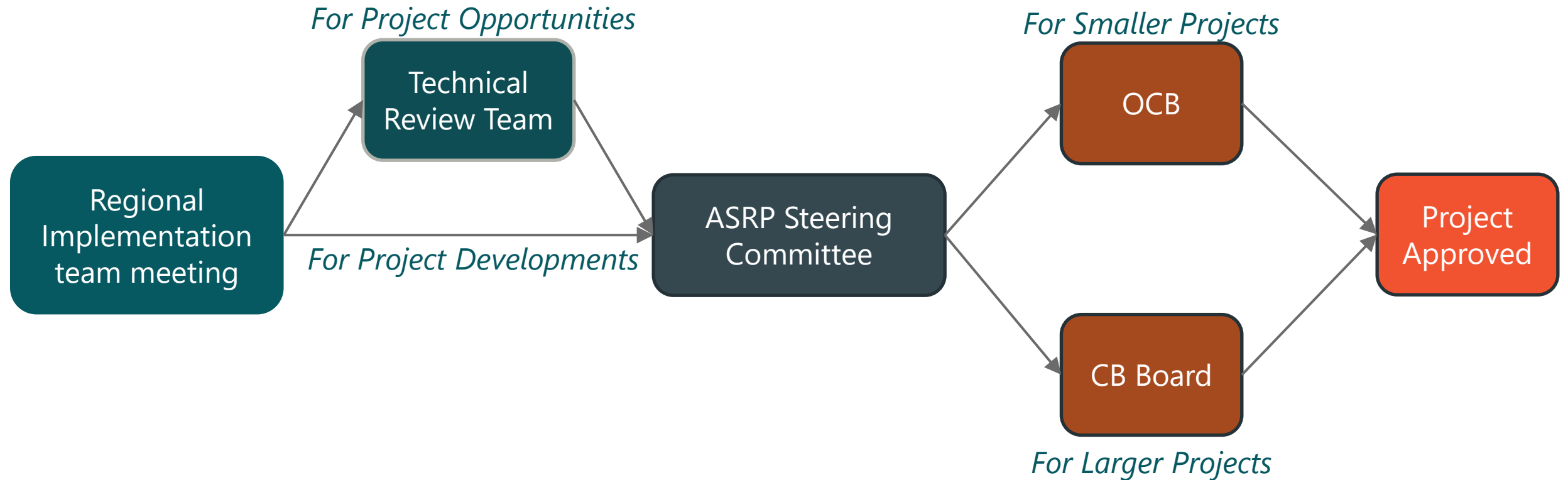
# ASRP BOARD SUBCOMMITTEE MEETING SHAREOUT

## - DECEMBER 16, 2022

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# ASRP PROJECT FUNDING APPROVAL REQUEST

# HOW DO WE APPROVE PROJECTS?



# ASRP PROJECT FUNDING APPROVAL

## Project approval process:

- Board approval needed for project funding requests exceeding \$500,000
- Two-part approval process
  - *First meeting – project introduction*
  - Second meeting – decision/vote to approve (or not approve) project for funding
- This is the first ASRP project to go through this new process step

# PROJECT FUNDING APPROVAL — PROJECT INTRODUCTION

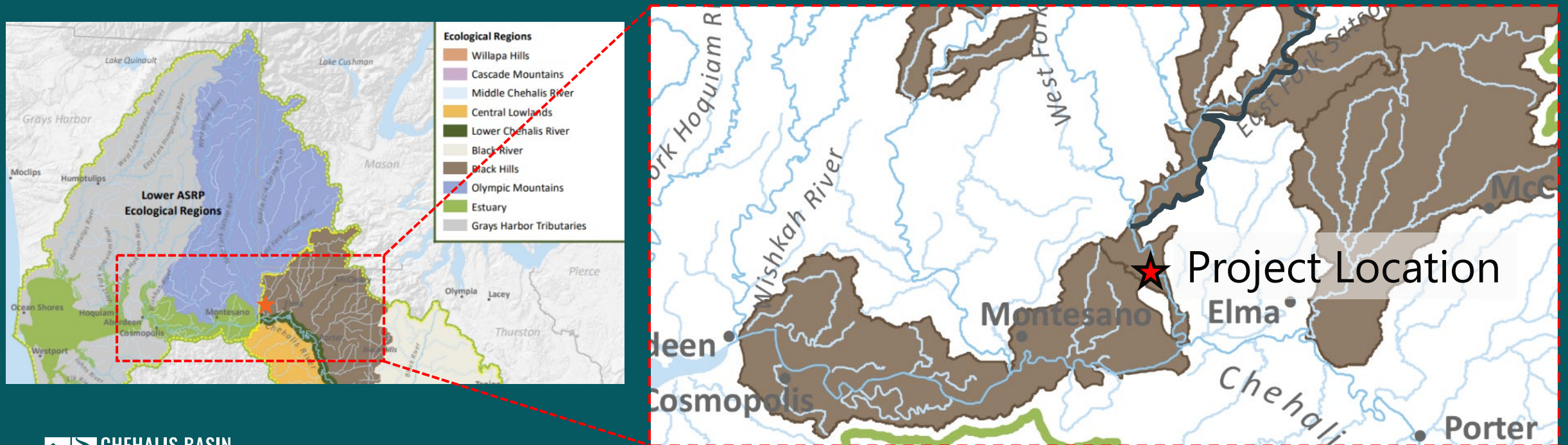
## Satsop 2.5-5.0

Sponsor: Grays Harbor Conservation District

History: 2020 grant round funding received, 2022 design and construction funding received

Current need: Cost increase approval sought

# SATSOP 2.5-5.0 CONSTRUCTION: FUNDING INCREASE



# PROJECT: SATSOP 2.5 – 5.0 CONSTRUCTION

- **Sponsor:** Grays Harbor CD
- **Location:** Grays Harbor County, Olympic Mountains Ecological Unit. Lower Satsop Mainstem GSU: an **ASRP near term priority area**
- **Landowner:** Multiple Private landowners; Ag and rural residential
- **ASRP Priority Limitations Addressed By Project:** Key Habitat, Temperature, Habitat Diversity, Channel Stability, Sediment Load
- **ASRP Priority Actions Addressed By Project:** Place large wood (High), Riparian Restoration (High), Reconnect/Restore Floodplain (Medium)
- **Cost:** Was: \$3,591,987. Now: \$4,772,384 (~\$1.2 Million Increase)

Geospatial Unit	Restoration Actions							Priority Species or Habitat Focus	Limiting Factors From Highest Priority to Lowest
	Place Large Wood	Remove Fish Barriers	Reconnect/Restore Floodplain	Riparian Restoration	Beaver Ponds/BDAs	Wetland Restoration	Acres of OSF* Habitat Protection/Restoration		
Lower Satsop MS GSU	●		●	●				④ High Priority Core Habitats ② Early Riparian Restoration	<b>Key Habitat, Temperature, Habitat Diversity,</b> Channel Length, Channel Stability, Predation, Flow, Sediment Load



# PROJECT DESCRIPTION

- **Synopsis**

- Reach Scale restoration of 2.5 miles along the Satsop River including engineered log jams (ELJs), riparian restoration, and invasives management.
- ELJ complexes will provide key habitat features for salmon, increase habitat diversity, increase side channel flow, increase channel stability along rapidly eroding banks, and capture sediment.
- Riparian plantings and invasive management will increase cover to reduce temperature, increase channel stability, increase habitat diversity, and increase long term habitat diversity by providing large wood material inputs.

- **Outcomes (Funded by this project):**

- **2.5 miles of large river restoration**
- **34 ELJs incorporating 9,810 pieces of wood**
- **240 acres of riparian enhancement** including conifer underplanting and invasive species treatment
- **33 acres of riparian buffer establishment** including dense riparian plantings and invasive species treatment

- **Intended benefits:**

- Intended long term outcome for the project is increased floodplain connectivity, reduced channel migration to allow for riparian forests to mature, a substantial increase in stable large wood throughout the reach, and multiple channels.
- Substantial increases to quantity and quality of fish habitat due to increased pools, side channels, spawning gravel stability, shade, large wood cover, and food web enhancement.
- Bank erosion reduction with ELJs and riparian plantings reduces risk to farmland, homes, and downstream infrastructure from rapid channel migration
- Silvopasture riparian plantings allows both ag production and riparian forest re-establishment





1991



2022



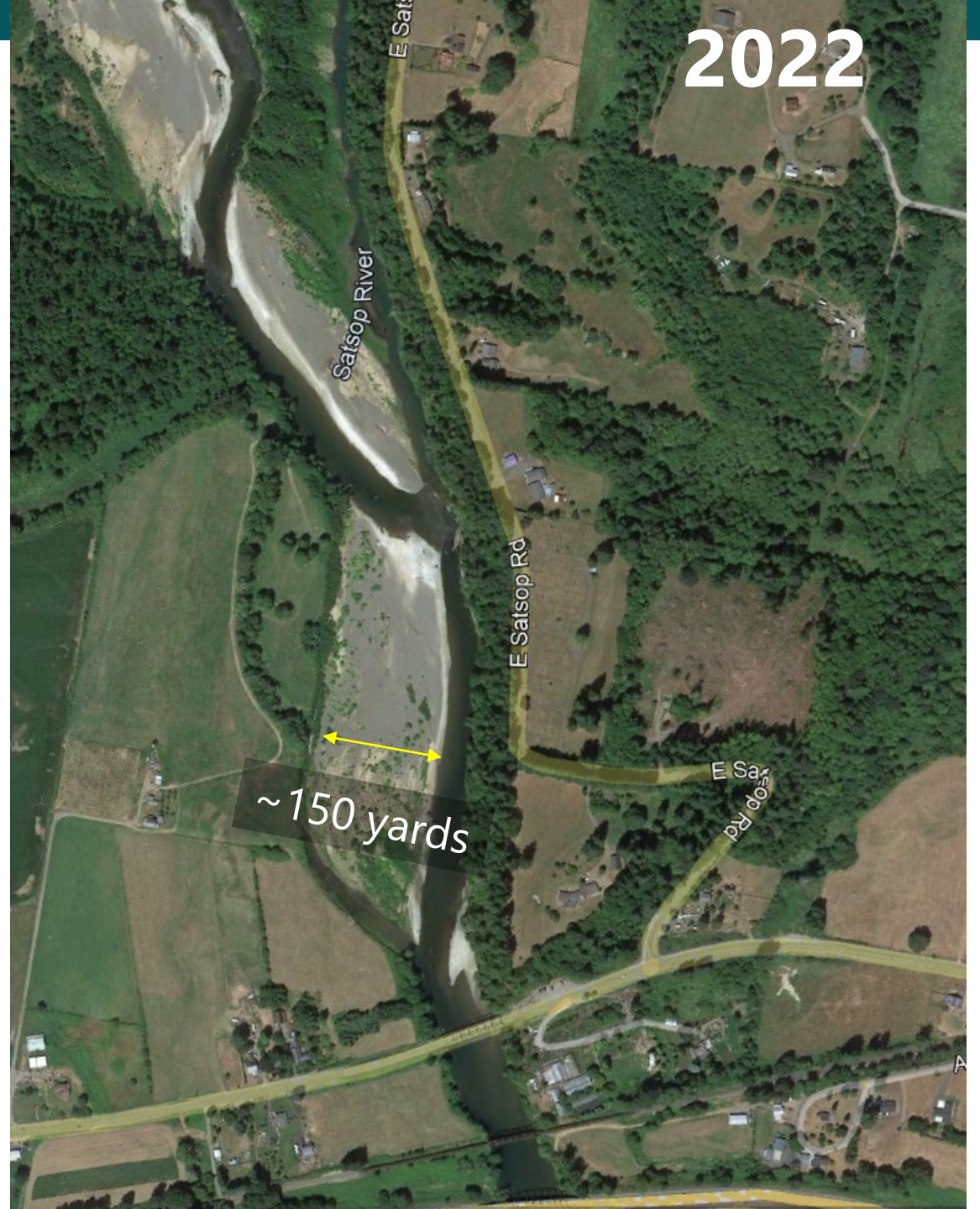


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Image U.S. Geological Survey  
Image Landsat / Copernicus

2022



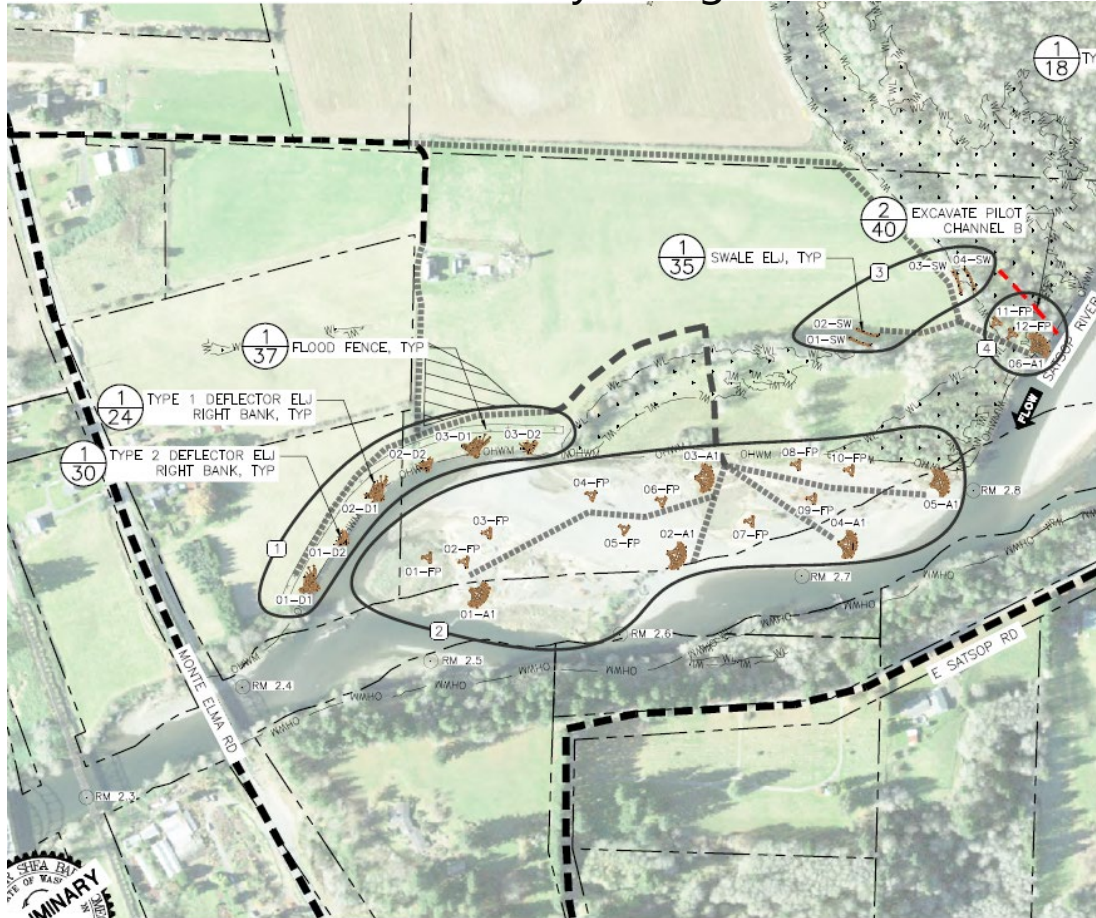
~150 yards



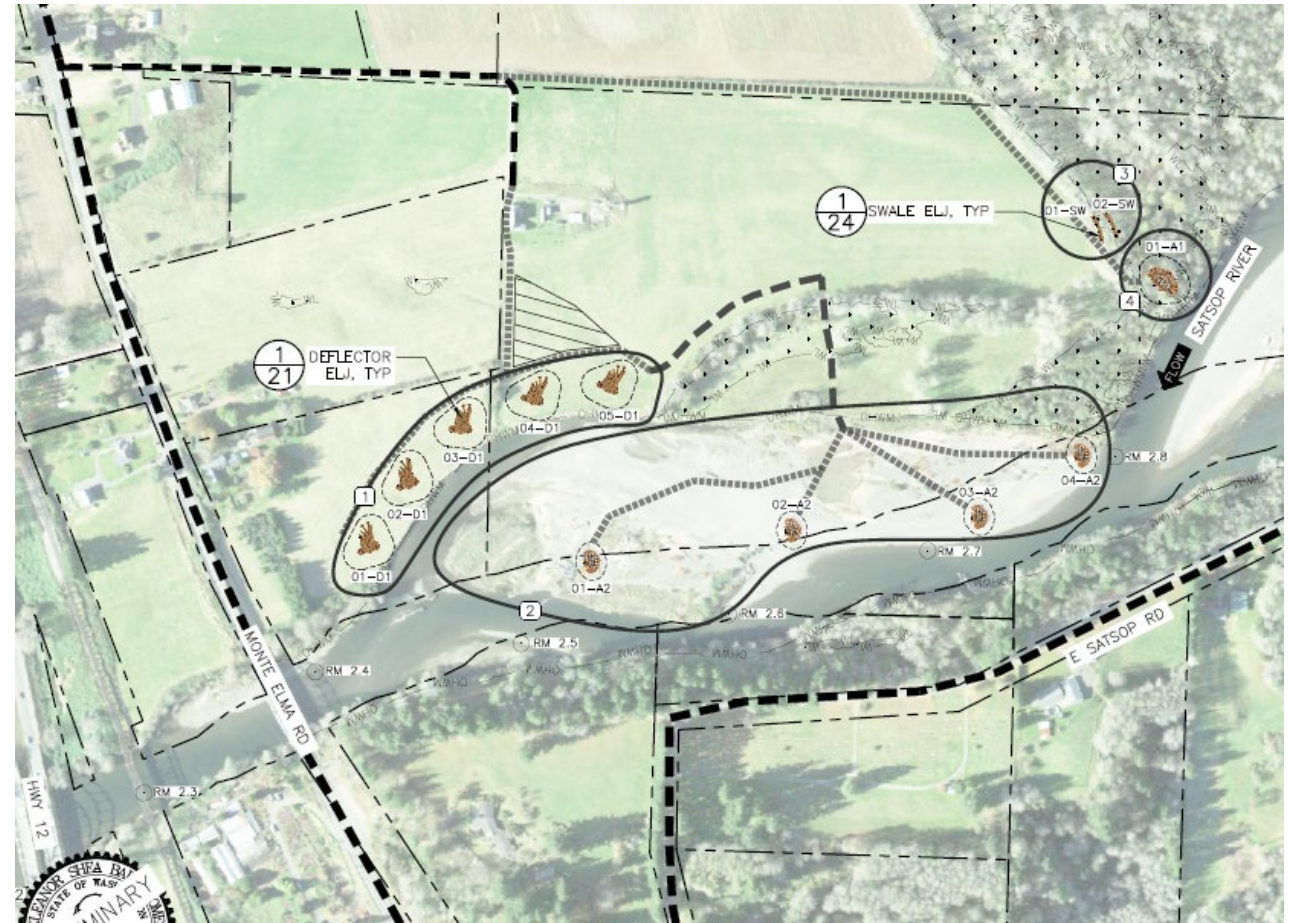
# SATSOP 2.5-5.0 COST INCREASE

- Initially \$3,591,987
- Now \$4,772,384 – a \$1,180,397 increase
- Increase due to:
  - Inflation
  - Design changes to achieve no net-rise floodplain permitting goal (CLOMR)
  - ELJs will be embedded in banks and gravel bars - increased costs due to increased excavation
  - ELJ size increase between preliminary and final design to achieve higher factor of safety for structure stability - increase in costs due to more materials

## Preliminary Design



## Final Design



# ADDITIONAL FUNDING DETAILS

Preliminary	
Logs and Rootwads	597
Piles	707
Racking Pieces	5341
Total	6645

Draft final	
Logs and Rootwads	652
Piles	467
Racking Pieces	8691
Total	9810

Why <b>Small Apex</b> cost changed (as percentage of preliminary design)	
50%	temporary excavation to embed the structure in the bar
130%	structure redesign to make it larger and more resistant to river forces based (more wood & more machine time to construct)
30%	update wood and labor costs from 2019/2020 bid tab to 2022 bid tab
10%	cost increases for miscellaneous items (chain, bolt, rope, etc.)

Why <b>Large Apex</b> the cost changed (as percentage of preliminary design)	
80%	temporary excavation to embed the structure in the bar
90%	structure redesign to make it larger and more resistant to river forces based (more wood & more machine time to construct)
30%	update wood and labor costs from 2019/2020 bid tab to 2022 bid tab
10%	cost increases for miscellaneous items (chain, bolt, rope, etc.)

Why <b>Large Deflector</b> cost changed (as percentage of preliminary design)	
55%	temporary excavation to embed the structure in the bar
60%	structure redesign to make it larger and more resistant to river forces based (more wood & more machine time to construct)
30%	update wood and labor costs from 2019/2020 bid tab to 2022 bid tab
10%	cost increases for miscellaneous items (chain, bolt, rope, etc.)



# RELATED WORK AND PREVIOUS FUNDING

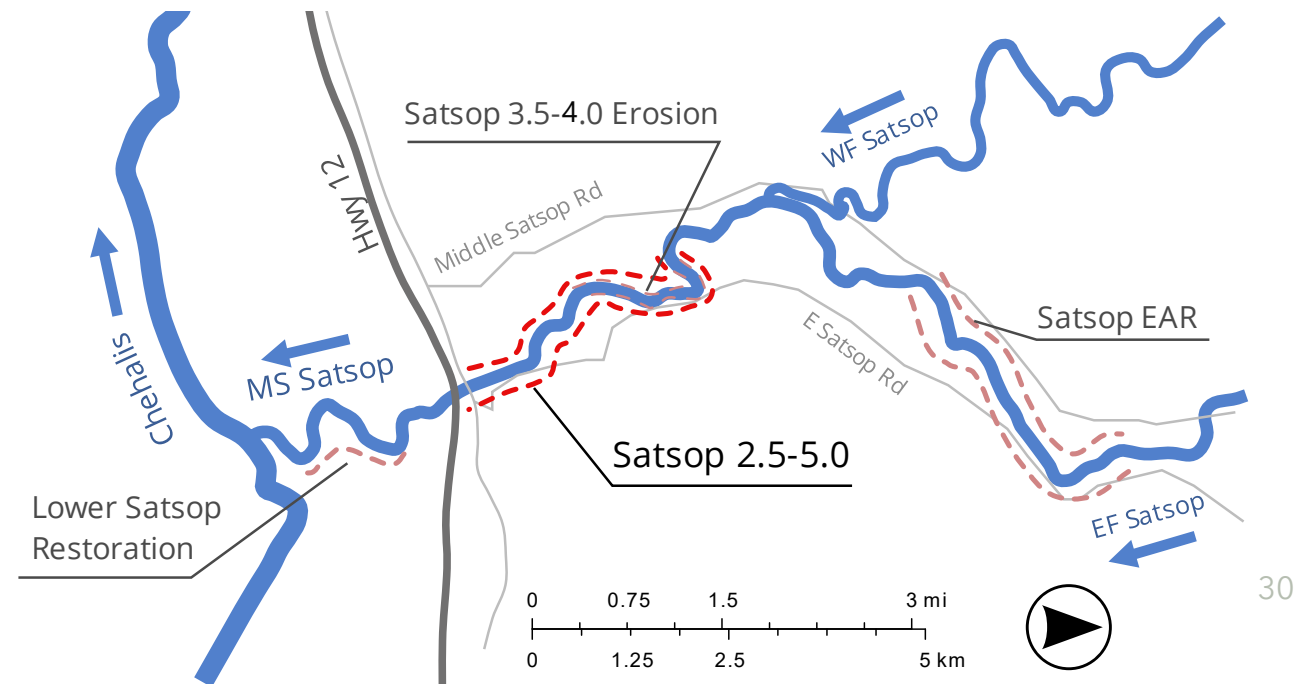
Concept Design  
Completed

Floodplain Permitting  
Design revisions

Final Design  
Completed



Project	Year	Funding
Satsop EAR	2019	\$6,735,793
Lower Satsop Restoration (GHCD)	2020	\$350,000
Lower Satsop Restoration (Flood plan)	2021	\$1,681,141
Satsop 3.5-4.0 erosion reduction	2022	\$13,154



# TIMEFRAME

- Final Design Completed December 2022
  - Approved by ASRP Technical Review Team
- Permits and construction bids: Early 2023
- Phase 1 construction: Summer 2023
- Phase 2 construction: Summer 2024
- Riparian revegetation, enhancement, and monitoring: winter 2022- 2028

\*All phases would be funded by this project

# FEEDBACK- PEER, TRT, AND STEERING COMMITTEE

- WDFW Habitat biologist: Project has very high potential for habitat uplift
- Review team found that changes to design are not likely to reduce original project objectives; current design best option out of alternatives
- Reviewers would like to see future projects of this scale receive additional funding for both baseline and post-construction monitoring



# TASK: REVIEW FUNDING INCREASE REQUEST

- This project is asking for a **funding increase of \$1,180,397** (from \$3,591,987 to \$4,772,384).
  - Because this amount is greater than \$500,000, *this request must be approved by the Board*
- The Board will vote on this request at the **February 2, 2023 Board meeting**
- Please send any questions to Drew Mealor ([Andrew.Mealor@dfw.wa.gov](mailto:Andrew.Mealor@dfw.wa.gov))

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# QUESTIONS AND DISCUSSION