



CHEHALIS BASIN BOARD STRATEGY DEVELOPMENT PROCESS

November 2, 2023



AGENDA

- October meeting recap
- Discuss updated process timeline
- Overview of scope of work for comparative analysis consultant
 - Discuss OCB "partner group" involvement between Board meetings
- Revisit/confirm common elements
- Evaluation factors and categories exercise
- Next steps

OCTOBER BOARD MEETING RECAP

OCTOBER BOARD MEETING RECAP

- Two sub-groups
- Approximately 17 packages created
- Significant commonalities across both groups
- Identification of several unique and common elements for consideration

PRELIMINARY PACKAGES (1 OF 2)

	FRE, Airport Levee	Levees & Diversion/Conveyance	Floodproof, Elevation & Acquisition	Floodplain Mgt & Land Use Planning	Skookumchu ck Dam	ASRP: Habitat	Non-Habitat Aq. Species (Other Hs & Predation)
FRE Centric "Simple Dam" / FRE / "Dam It"	Yes	None	Low / Med / High	Med / High	Combo Fish/Flood	High	Med / High
"Net Zero Dam" / "No Net Dam"	Yes	Sk Levee/ None	Med	Med/High	Dam Removal	High	Med / High
"Structural Max"	Modified	D/C & Sk. Levees	Low	Med	Combo Fish/Flood / Dam Removal	High +	High
"House on Fire"	Modified with flow augmentation	LDC	High, emphasize relocation	High	Combo Fish/Flood	High +	High

PRELIMINARY PACKAGES (2 OF 2)

	FRE, Airport Levee	Levees & Diversion/ Conveyance	Floodproof, Elevation & Acquisition	Floodplain Mgt & Land Use Planning	Skookumchu ck Dam	ASRP: Habitat	Non-Habitat Aq. Species (Other Hs & Predation)
"Levee Habitat" / LDC	None	LDC	Med	Med / High	Remove / combo fish/flood	High	Med / High
"Levees Flood Focus"	None	LDC	High	High	Remove	Low	Low
"Levee Only Fish"	None	Levees only	High	High	Fish passage	High	Med
"No regrets /min. cost"	No	Levees - Low	High	High	Combo fish/flood	Med	High
"Fish focused super" / "Non- structural"	No	No	High	High	Removal	High	High
"Light touch"	No	No	High	High	None	Low	Low

UNIQUE ELEMENTS

- Agricultural viability
- Forest practices
- Transportation systems (I-5, state routes, etc.)
- Low flow augmentation
 - Managed aquifer recharge
- Local flood damage reduction project master plan
- Enhanced flood warning system
- Other-Hs and predation: ban jet sleds, reintroduce spring Chinook?

NEXT STEPS

Near-term:

- Scope for comparative analysis consultant
- Approach to address unique elements
- Other work element definition and option refinements
- Climate change assumptions

NEXT STEPS

Near/medium-term:

- Levee / diversion / conveyance refinements
- Skookumchuck dam options
- Preliminary tradeoff analyses
- Hydraulic modeling and fish modeling needs

OVERALL PROCESS TIMELINE

SEE BOARD HANDOUT

COMPARATIVE ANALYSIS CONSULTANT

COMPARATIVE ANALYSIS CONSULTANT SCOPE

Work with OCB/Board and partners to:

- Finalize evaluation factors, categories, and metrics
- Apply Board developed evaluation factors, categories, and metrics to evaluate Board packages
 - Determine key questions related to methodology, data sources, and assumptions that guide evaluation
 - Could include benefit-cost, socioeconomic/EJ, ecosystem services analyses

COMPARATIVE ANALYSIS CONSULTANT ASSUMPTIONS

- Will be selected via a competitive process with Board or Board sub-group engagement
- Will work in concert with OCB and/or Board sub-group and other partners

STRATEGY DEVELOPMENT “PARTNER GROUP”

- Engage OCB partners to preview content and effectively structure Board meeting discussions on Strategy development process
- Core partners:
 - Chehalis Tribe
 - Quinault Indian Nation
 - Flood Control Zone District
 - State agencies
 - Consultants

QUESTIONS AND DISCUSSION



COMMON ELEMENTS

COMMON ELEMENTS

- Erosion Management Program
- Flood Authority Projects
- Flood Warning System
- Resiliency Program
- Transportation System and Accessibility Improvements
- Agricultural Viability
- Additional Analyses for Strategy Development

COMMON ELEMENTS - CONSIDERATIONS AND ASSUMPTIONS

- Common elements will be included in some fashion for all packages
- Board will determine preferred level of investment for common elements in packages
- OCB will work with comparative analysis consultant to determine to what degree common elements can be modeled

EROSION MANAGEMENT PROGRAM

Construct projects that manage erosion and improve aquatic habitat conditions by promoting the use of bioengineering techniques and reducing the use of hard bank stabilization practices.

- Assume program is complementary to ASRP and flood damage reduction projects

FLOOD AUTHORITY PROJECTS

Construct local-scale flood projects to protect people, property, and infrastructure and improve communities' readiness.

- Local flood damage reduction project master plan raised as potential “unique element.”

FLOOD WARNING SYSTEM

Maintain and/or improve an early flood warning system that provides real-time information to track and monitor flood conditions and sends email alerts to subscribers to afford them more time to respond to rising water.

- Current system co-funded by OCB and local-governments
- Enhanced warning system raised as potential “unique element.”

RESILIENCY PROGRAM

Support actions that increase the ability of basin communities to withstand, respond, adapt, and recover from adversity due to flood events.

- Enhanced resiliency program raised through initial LAND process.

TRANSPORTATION SYSTEM AND ACCESSIBILITY IMPROVEMENTS

Support, and in some cases, fund, local actions to protect transportation corridors from flood damage and ensure future transportation projects incorporate flood protection measures, e.g., emergency access routes.

- Assumes WSDOT and local governments still lead / fund respective transportation improvements.
- Transportation system improvements raised through initial LAND process.

AGRICULTURAL VIABILITY

Support projects designed to promote the continued viability of agriculture in the Basin, e.g., farm pads, flood fencing, existing WSCC programs, SW Growers Co-Op, Initiative for Working Riparian Lands.

- Agricultural viability raised as potential “unique element” in context of ASRP implementation.

ADDITIONAL ANALYSES FOR STRATEGY DEVELOPMENT

Other yet-to-be-identified analyses that support the advancement of the Chehalis Basin Strategy goals.

- Forestry practices and low flow augmentation (managed aquifer recharge) raised as potential “unique elements.”

NEXT STEPS ON COMMON ELEMENTS

- Incorporate Board feedback and engage partners to refine common element definitions and options

QUESTIONS AND DISCUSSION



EVALUATION FACTORS AND CATEGORIES

EVALUATION CATEGORIES EXERCISE

- What kinds of information, e.g., topics, issues, criteria, should be evaluated to help you determine which package best meets your goals for a viable long-term strategy?
- Umbrella question handout can serve as a starting point
- Be as general or specific as you'd like when writing down your ideas

SEE MURAL WEBPAGE

NEXT STEPS

- Tentative December meeting:
 - Revisit evaluation factors and categories
 - Final scope of work for comparative analysis consultant
 - Preliminary direction on topics like climate change, unique elements, potential spring Chinook ESA listing

QUESTIONS & DISCUSSION

