

# Salmon Recovery Funding Board

## Individual Comment Form



<b>Lead Entity:</b>	Nisqually River Salmon Recovery Lead Entity
<b>Project Number:</b>	15-1231
<b>Project Name:</b>	Mashel Eatonville Restoration Phase III
<b>Project Sponsor:</b>	South Puget Sound Salmon Enhancement Group
<b>Grant Manager:</b>	Elizabeth Butler

	<b>Date</b>	<b>Status<sup>1</sup></b>
Post-Application	9/23/15	<b>NMI</b>
Final	10/28/15	<b>Conditioned</b>

### PROJECT SUMMARY *(for Review Panel reference only)*

The South Puget Sound Salmon Enhancement Group and Nisqually Indian Tribe will implement Phase III of a decade long Mashel River restoration effort in the Eatonville area to improve salmon habitat complexity. This in-channel restoration project is located at the confluence of the Little Mashel River and will include the construction of up to 12 LWD elements (ELJs and wood crib walls), bank roughening, side channel reconnection and 5.25 acres of riparian planting. This section of the Mashel River is a high restoration priority in both the Nisqually Chinook Recovery Plan and the draft Nisqually River Steelhead Recovery Plan. According to the Mashel River Restoration Design report (Watershed Professionals Network, 2004), loss of habitat diversity is the single largest limiting factor within this portion of the Mashel River due to disconnection from the floodplain, loss of riparian function and nearly non-existent LWD. The LWD elements installed through this project will increase spawning gravel and pool area for Chinook and steelhead as well as coho, pink, chum and cutthroat. Off-channel reconnection will increase high flow refugia. Riparian plantings will result in a shaded channel lowering stream temperature, stabilize surrounding soils and increase nutrient and woody debris inputs.

### FINAL REVIEW PANEL COMMENTS

**Date:** \_\_\_\_\_ **Final Project Status:** Choose an item.  
**Review Panel Member(s):** \_\_\_\_\_

- If the project is a POC, please identify the SRFB criteria used to determine the status of the project:**
- If the project is Conditioned, the following language will be added to the project agreement:**  
 Submit the preliminary design deliverables as required in Appendix D-2 of Manual 18 to the review panel for review and approval prior to releasing funds for construction. The review panel requires 30 days review and comment period, and this timeframe needs to be built into the project schedule. The designs will allow for natural rates of channel migration.
- Other comments:**

### POST-APPLICATION REVIEW PANEL COMMENTS

**Date:** 9/23/15 **Project Status:** NMI  
**Review Panel Member(s):** Full review panel

- If the project is a POC, identify the SRFB criteria used to determine the status of the project:**

\_\_\_\_\_

<sup>1</sup> CLEAR: Cleared to proceed; CONDITIONED: Cleared to proceed with a condition; NMI: Needs More Information; POC: Project of Concern; NOTEWORTHY: Exemplary Project

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- 2. If the project is a POC, identify the changes that would make this a technically sound project:**
- 3. If the project is Conditioned, the following language will be added to the project agreement:**
- 4. General comments:**

The preliminary design report dated Oct 23, 2008 discusses the use of the FLO-2D model in reach 7 of the Mashel River up to the confluence with the Little Mashel River. The application states only a 1D model was developed initially and a new 2D model will be developed for this reach. Please clarify if the original FLO-2D model will be updated and extended downstream of the Little Mashel River or if a new 2D model will be developed.

The confluence of the Mashel River and the Little Mashel River is a critical and highly productive habitat area. The panel remains concerned with the extent of ELJs at this location which will create a static, hardened feature in a normally dynamic, alluvial landscape. The sponsor has responded to the review panel's early review comments by stating the design team will investigate structure placement to limit channel migration into the adjoining private property. The review panel supports removing the exiting riprap along this bank and installing log deflectors to engage the right bank side channel though does not support limiting the natural rate of channel migration. The panel is leaning towards applying conditions to 1) review the revised preliminary design and final design deliverables and 2) to exclude from the design and construction ELJs which are intended to limit natural channel migration onto the land trust or Tweet properties.



If your project is not cleared (i.e. has a status of NMI, Conditioned, or POC) you must update your proposal, PRISM questions, or attachments as necessary to address the review panel's comments. Use track changes when updating your proposal. Fill out the section at the end of your project proposal to document how you responded to comments.

### DRAFT APPLICATION / SITE VISIT REVIEW PANEL COMMENTS

**Date:** June 3, 2015

**Project Site Visit?**

Yes  No

**Review Panel Member(s):** Cramer and Tyler

- 1. Recommended improvements to make this a technically sound project according to the SRFB's criteria:**

Clarify in the proposal the proximity and relationship to proposal 15-1232.

Given the lapse of time between the 70% designs and the presence of the active landslide within the reach, additional geotech work would be appropriate. Include the final design as one of your objectives.

The review panel does not support the bank hardening element of the proposal in the vicinity of ELJ 7-6. Particularly with the potential purchase of the conservation easement at that location, the previous concerns about protecting property are no longer relevant. Projects receiving SRFB funding should restore natural processes. Lidar images suggest that this area formerly functioned as an alluvial fan. The review panel would like to see the project allow this reach to restore its function as an alluvial fan.

Sponsor should stay engaged with design team to ensure that

- Imported materials incorporated into the design should be consistent with the native materials found in the area.
- Encourage engineers to strive for longevity of the planned structures.

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Provide additional detail in proposal on the vision for the side channels proposed, their approximate location, and the frequency with which they would be engaged.

### 2. **Missing Pre-application information:**

Include approximate dates in the scope of work.

### 3. **General Comments:**

The proposal is well written and organized. The review panel appreciates the sponsor's responsiveness in posting the lidar plans, aerial photo time series, and risk memo to PRISM. If more current lidar is available than the 2010, please post that as well

Jusify the use and cost of a 2D hydraulic model when a 1D model has already been developed.

### 4. **Staff Comments:**



### SPONSOR RESPONSE INSTRUCTIONS:

Revise your project proposals using "track changes" and update any relevant PRISM questions and attachments. Fill out the section at the end of your project proposal to document how you responded to comments.