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**To:** [Kelly Reis](#)  
**Cc:** [Walker, Christopher E CIV USARMY USACE \(USA\)](#); [lance.kruzic@noaa.gov](mailto:lance.kruzic@noaa.gov); [Elise Kelley](#); [Jeffrey Ziller](#); [Joel Watts](#); [michael\\_hudson@fws.gov](mailto:michael_hudson@fws.gov); [Ann Gray](#); [Wertheimer, Robert H CIV USARMY CENWP \(USA\)](#); [Gallion, Darren G CIV \(USA\)](#); [Kuryachy, Artem K CIV USARMY CENWP \(USA\)](#)  
**Subject:** [Non-DoD Source] Re: Lebanon Fish Counter - South Ladder  
**Date:** Monday, October 26, 2020 1:51:12 PM

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I support the comments made by ODFW, but would highlight the importance of the comment related to the bracing. The bracing needs to be minimized to leave a clearer path for fish.

On Mon, Oct 26, 2020 at 1:26 PM Kelly Reis <[Kelly.E.Reis@state.or.us](mailto:Kelly.E.Reis@state.or.us) <<mailto:Kelly.E.Reis@state.or.us>>> wrote:

Thanks, Chris.

ODFW has the following comments/question for your consideration:

- \* The ramp leading to the VAKI appears too steep, as currently shown, and needs to be extended. A maximum of a 45 degree slope off of horizontal would be preferred.
- \* We would recommend reducing the number of horizontal braces on the frames. Some of the horizontal braces from the bulkhead supports up to the front could probably run diagonally and clear up some swimming space leading to the VAKI. This may be tricky to visualize without a sketch.
- \* The funnel does not necessarily need to be adjustable. Too many moving parts could lead to issues during removal, reinstallation and maintenance.
- \* Is there a picket floor system or can it be sealed to the substrate?
- \* Either pipe or flat bar pickets may be used. Flat bar pickets should be parallel to flow per criteria. Pipe don't really have that issue and are probably safer for fish, with less chance of gilling, although they do take up more flow area.

Thank-you for the opportunity to provide input.

Kelly, Joel and Elise

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Kelly Reis

Willamette Fish & Wildlife Policy & Program Manager

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Please note that my phone number has changed. I can be reached at 541-686-7880 or 541-517-2228 (cell).

From: Walker, Christopher E CIV USARMY USACE (USA) <Christopher.E.Walker@usace.army.mil  
<<mailto:Christopher.E.Walker@usace.army.mil>>>

Sent: Friday, October 16, 2020 11:00 AM

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Subject: Lebanon Fish Counter - South Ladder

Hello,

We would appreciate receiving some feedback from folks regarding the Lebanon Fish Counter project (south ladder).

They are listed as follows:

1. Do the individual picket members need to be angled in any particular fashion relative to the flow?
2. Would the steel frame of the favored steel frame design be a concern for affecting fish passage?
3. What is the preferred elevation to mount the Vaki RW?
4. Would the funnel be fixed or would it be required to be adjustable? Would it need to be removable at all?

5. What sort of angle is acceptable for the funnel section in order to provide the best fish guidance?

Please provide comments by October 30, 2020.

Chris Walker

U.S. Army Corps of Engineers

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Willamette Fish Passage Operations and Maintenance (W-FPOM) (website):

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