

## MEMORANDUM FOR THE RECORD

Subject: Final minutes for the 02 July 2018 Willamette Fish Facility Design Work Group meeting.

The meeting was held in the Willamette Room, USACE Block 300, Portland, OR. In attendance:

| Last name | First Name | Agency   | Email                                                                                    |
|-----------|------------|----------|------------------------------------------------------------------------------------------|
| Britton   | Jeremy     | NWP      | <a href="mailto:Jeremy.P.Britton@usace.army.mil">Jeremy.P.Britton@usace.army.mil</a>     |
| Fielding  | Scott      | NWP      | <a href="mailto:Scott.D.Fielding@usace.army.mil">Scott.D.Fielding@usace.army.mil</a>     |
| Fortuny   | Kristy     | NWP      | <a href="mailto:Kristina.R.Fortuny@usace.army.mil">Kristina.R.Fortuny@usace.army.mil</a> |
| Griffith  | David      | NWP      | <a href="mailto:David.W.Griffith@usace.army.mil">David.W.Griffith@usace.army.mil</a>     |
| Kelley    | Elise      | ODFW     | <a href="mailto:Elise.x.kelley@state.or.us">Elise.x.kelley@state.or.us</a>               |
| Khan      | Fenton     | NWP-PM-E | <a href="mailto:Fenton.o.khan@usace.army.mil">Fenton.o.khan@usace.army.mil</a>           |
| Kovalchuk | Erin       | NWP      | <a href="mailto:Erin.H.Kovalchuk@usace.army.mil">Erin.H.Kovalchuk@usace.army.mil</a>     |
| Philips   | Marie      | NWP      | <a href="mailto:Marie.J.phillips@usace.army.mil">Marie.J.phillips@usace.army.mil</a>     |
| Pierce    | Todd       | NWP      | <a href="mailto:Todd.M.Pierce@usace.army.mil">Todd.M.Pierce@usace.army.mil</a>           |
| Reis      | Kelly      | ODFW     | <a href="mailto:Kelly.E.Reis@state.or.us">Kelly.E.Reis@state.or.us</a>                   |
| Royer     | Ida        | NWP-PM-E | <a href="mailto:Ida.M.Royer@usace.army.mil">Ida.M.Royer@usace.army.mil</a>               |
| Tarbox    | Erica      | NWP      | <a href="mailto:Erica.M.Tarbox@usace.army.mil">Erica.M.Tarbox@usace.army.mil</a>         |

On the phone: Griffith, Kelley, Kovalchuk, Phillips, Pierce, Reis, Royer and Tarbox.

**Meeting Purpose:**

Finalize previous meeting notes. Provide an update on status of active design projects.

**Agenda:**

1. Review and approve previous meeting notes - No comments were received. Agencies will have till the end of the week for submitting comments to the June meeting minutes.
2. Updates on active design/construction projects
  - i. Fall Creek AFF- The facility is in operation. At the June meeting, Richards identified some needed repairs and is modifying the contract to have these completed this summer. Specifically for fish, the fingerling weir at the presort pool needs to be addressed. Pierce mentioned that there was a problem with the crowder braille system that has been fixed. The project had to drop to a different tier for the fish horns at Fall Creek so cooler water is coming through the facility. The reservoir is below the rule curve. With only three fish horns, the project is limited to what it can use. In past years, they were able to access the warmer water but this year, they have to use deeper water.
  - ii. Foster DSP and AFF ladder – A PDT will be formed to look at increasing the efficiency of the ladder. Fish are not using the ladder in the summer from May on and it appears to be a temperature related issue. The reservoir stratifies with water from the S. Santiam on top and the colder water from Green Peter on bottom. The ladder intake is deep causing temperatures in the ladder to be ~48° and fish prefer the temperatures ~52°. This topic will now be added as an update to the agenda. The PDT will meet later this summer. The spring evaluation of the new Foster fish weir is completed. The weir operations ended 15 June and is now closed for the summer. Kelley asked if Khan can share the passage data

before the report comes out, specifically the number of fish that were used and the number that passed the weir for each study. Khan said that the study just finished and when the data is available, it will come out in a draft report. There were two studies going on – balloon tag and radio tag. Khan will share the preliminary data but it won't be available until later this summer. Kelley had a report of the angler who caught a radio tagged fish. She is interested in knowing how many fish passed the weir and how many stayed in the reservoir. Brett Boyd also mentioned an angler caught a radio tagged fish and he gave the tag to Khan. It is unclear if it is the same fish. Kelley will send the tag information to Khan.

- iii. Detroit Temp Control and DSP – The team is working towards the 90% DDR. The schedule for agency review has been pushed back to the fall due to the EIS process. The team has to look at the feasibility of the construction options with regard to the downstream water supply impacts. The 60% DDR for the FSS is out for review. In the DDR, fish are routed to a tank but they are now looking at direct loading to a pod in order to minimize handling. This is in response to comments received on the Cougar Report. Cougar and Detroit will have the same size pods (750 gallons). The Cougar and Detroit AV will be the same as well. The Cougar team is doing a market analysis on the AVs currently. Debris movement by the AV is being looked at today. Cougar is also looking at barges for debris. Many of the Cougar decisions will be implemented at Detroit. Khan reminded everyone to send comments sooner rather than later so the PDT can continue to move forward.
  - iv. Cougar DSP Update and specific discussion topic: The schedule for the 90% DDR is to be completed in September and start the agency reviews in the fall.
    - i. Fish release locations – The PDT proposed the adult fish facility as a fish release location and Fielding said he would find out the velocities. However, this data did not exist. Pierce and Fielding will go measure flows in the next couple of weeks (July 16/17). Below Cougar, flows were dropped for a habitat restoration project. Fielding asked if the group can wait until the flows pick up or extrapolate the data under Bi Op conditions. Pierce looked at the current conditions which is ~300cfs. ACTION: Fielding will send out an invitation to the group on the site visit date. On the site visit, the velocities will be measured at the AFF and the release locations will be discussed. Pierce updated that US Forest Service has requested a 300 flow for the habitat work which works perfectly with the velocity testing. Reis will give Ziller a heads up on the dates of July 16 or 17 for the site visit.
  - v. High Head Bypass – The high head bypass team has been collecting RME data for the last few years. They are looking at piped by-pass and are working on a design parameters report. The plan to have the 60% report with piped by-pass feasibility ready for the WFFDWG review in October/November. This topic will be an update on the agenda every month. The Cougar and Detroit PDTs are still working on the trap and haul scenarios while this PDT is working on piped by-pass. The two groups are working together and in fact, many members are the same.
3. Next Steps
- i. Next WFFDWG meeting (August 7, 2018)

- ii. Upcoming reviews – Many reviews are coming out around the same time. At the next meeting, Khan will add an agenda item to coordinate staggering the reviews and reports coming out. These designs are critical and reviews are extremely important in the process.