

Memorandum for the Record

SUBJECT: Final Minutes for the Willamette Fish Passage Operation and Maintenance Meeting 27 February 2019.

The meeting was held in the Lobby Conference Room at USACE NWP HQ, Block 300, Portland, Oregon. In attendance:

| Last | First | Agency | Email |
|------------|---------|--------------|--|
| Bowers | Greg | NWP | Gregory.H.Bowers@usace.army.mil |
| Couture | Ryan | ODFW | ryan.b.Couture@state.or.us |
| Dishman | Diana | NOAA | Diana.Dishman@noaa.gov |
| Eppard | Brad | NWP-PME | Mathew.B.Eppard@usace.army.mil |
| Hudson | Mike | USFWS | michael_hudson@fws.gov |
| Kovalchuk | Erin | NWP-ODT-F | Erin.H.Kovalchuk@usace.army.mil |
| Mackey | Tammy | NWP-ODT-F | Tammy.M.Mackey@usace.army.mil |
| Mullan | Anne | NOAA | Anne.Mullan@noaa.gov |
| Neuenhoff | Rachel | NWP-PME | Rachel.D.Neuenhoff@usace.army.mil |
| Reis | Kelly | ODFW | Kelly.E.Reis@state.or.us |
| Richards | Natalie | NWP | Natalie.A.Richards@usace.army.mil |
| Traylor | Andrew | NWP-ODT-F | Andrew.W.Traylor@usace.army.mil |
| Walker | Chris | NWP-ODT-F | Christopher.E.Walker@usace.army.mil |
| Wertheimer | Robert | NWP-ODT -FFU | Robert.H.Wertheimer@usace.army.mil |

On the phone: Couture, Dishman, Hudson, Kovalchuk, Mullan, Neuenhoff, Reis, Richards and Wertheimer.

1. Final decisions or recommendations made at this meeting.

- 1.1. January minutes are pending till next month.
- 1.2. A TASK GROUP meeting with Walker and Wertheimer co-chairing will be schedule for immediately after the March meeting to discuss the spawning survey data.
- 1.3. 19OVE001 Ch1_Sect 2.3.2_Part iv_ODFW 02.14.2019.docx – approved as revised to monthly updates at WFPOM.
- 1.4. 19OVE002 Ch1_Sect 2.4.4_ODFW 02.14.2019.docx – approved
- 1.5. 19OVE003 Ch1_Sect OVE 2. USACE.doc – approved
- 1.6. 19NS001 Ch2_Sect 3.1_ODFW 02.14.2019.docx – approved
- 1.7. 19NS002 Ch2_Sect 4.1.1 Big Cliff_ODFW 02.14.2019.docx – pending
- 1.8. 19NS003 Ch2_Sect 4.1.1 TDG hardiness_ODFW 02.14.2019.docx – approved
- 1.9. 19NS004 Ch2_Sect 4.1_ODFW 02.14.2019.docx – pending
- 1.10. 19NS006 Ch2_Sect 5.2.1.5_ODFW 02.14.2019.docx – rejected. The whole bullet point was deleted but will have a task group to discuss the protocol.
- 1.11. 19NS007 Ch2_Sect 5.2.1.11_ODFW 02.14.2019.docx – approved; the experimentation will be brought up to RME
- 1.12. 19NS008 Ch2_Sect 5.2.1.12_ODFW 02.14.2019.docx – approved
- 1.13. 19NS009 Ch2_Sect 5.2.1.14_ODFW 02.14.2019.docx – this form is the same as 007
- 1.14. 19NS010 Ch2_Sect 5.2.1.17_ODFW 02.14.2019.docx - approved
- 1.15. 19NS011 Ch2_Sect 5.2.1.18_ODFW 02.14.2019.docx – rejected
- 1.16. 19NS012 Ch2_Sect 5.2.2.11_ODFW 02.14.2019.docx – rejected
- 1.17. 19NS013 Ch2_Sect 5.2.2.14_ODFW 02.14.2019.docx – pending

- 1.18. 19NS014 Ch2_Sect 5.2.2.16_ODFW 02.14.2019.docx – rejected (no change provided, clarification requested)
- 1.19. 19NS015 Ch2_Sect 5.2.2.18. b Minto USACE.doc – approved
- 1.20. The next WFOPM will be three hours to finish the WFOP forms and the task group meeting.

2. The following documents are provided or discussed at this meeting. All documents can be found at: http://pweb.crohms.org/tmt/documents/FPOM/2010/Willamette_Coordination/

- 2.1. Agenda, Fish Passage O&M coordination team
- 2.2. WFOP change forms

3. Action Items

3.1. None

4. Updates

4.1. HMT updates

4.1.1. North Santiam – The facilities have experienced prolonged power and phone outages. The facilities have been running on the generators since 24 February. The highway is closed again but a truck was able to go up and refill the generator. No issues with freezing have been reported.

4.1.1.1. Marion Forks Hatchery – Lots of snow but no reported facility damage.

4.1.1.2. Minto Fish Facility – One unmarked STW returned for a total of three. ODFW got a cost estimate on valves and piping. There is money in the budget for this year but it might be better to purchase an isolation valve in order to do the work more efficiently. HMT discussed purchasing equipment only this year and installation next year.

4.1.2. South Santiam

4.1.2.1. South Santiam Hatchery

4.1.2.2. Foster Fish Facility- The facility is shut down for maintenance. A PDT is looking into the ladder water temperatures. Fish health is good and the egg target was met. Foster had an issue with fall backs at the finger weir. Royer helped with a design change and the weir was modified. The weather might impact the dive scheduled for Foster but otherwise the facility will open on 01 March.

4.1.3. McKenzie

4.1.3.1. McKenzie Hatchery- The major problem has been the water supply issues. The canal is lowered and the intake pipe is no longer submerged. Kremers had experimented with the amount of water they can get and how many ponds they can run. One fish ladder and some juvenile ponds was the most he could get. A coffer dam would increase the elevation of the water but the design has to be approved by EWEB and FERC. This could create issues with hatchery fish returning but skipping McKenzie and going to Leaburg. Ziller was looking at some ways to remove hatchery fish from the Leaburg fish ladder. The COE has been working with EWEB and ODFW on the coffer dam design. McKenzie has been without power due to weather since 24 February and many trees are down around the facility. The facility is a mess but they did not find any structural damage. The January smolt release was at Leaburg because

there was not enough water at McKenzie but the next two releases will go back to McKenzie for acclimation first. Dishman asked that Jundt be looped into the discussion of the Leaburg canal and she had a suggestion of running a pipe through the canal to supply more water. Kremers said at HMT that he did not think running the pipe through the canal would work in this situation.

4.1.3.2. Cougar Fish Facility – The facility will open the week of 18 March. Minor valves issues were addressed.

4.1.4. Middle Fork – The recent snow storm hit hard. Lots of trees came down buildings were damaged. The highway has been closed since 25 February. Hatchery operations have not been affected.

4.1.4.1. Willamette Hatchery

4.1.4.2. Dexter Fish Facility

4.1.4.3. Fall Creek Fish Facility – The facility should be open by Mid-March. The pipe lining contractor had equipment failures and they were unable to finish the work. They will come back in October and it will require special operations.

4.2. HGMP updates- All HGMP have been submitted to NOAA. The draft hatchery Bi Op is being reviewed by the COE currently with comments due in Mid-March.

4.3. WFFDWG/Research updates –A concept paper looking at North Santiam out planting productivity, using information from spawning surveys will be going to RME. The next WFFDWG meeting is 05 March with a status update on the Foster fish weir.

4.4. Water Quality Updates – no update. No high TDG despite the outages at Cougar.

4.5. Flow update – Mullan asked why Green Peter was a little below the rule curve.

| Sub-basin | Dam | Minimum Flow (cfs) | Current Flow (cfs) | Primary Use |
|---------------|-------------|--------------------|--------------------|-------------|
| North Santiam | Big Cliff | 1,000 | 1,070 | Rearing |
| South Santiam | Foster | 800 | 1,001 | Rearing |
| SF McKenzie | Cougar | 300 | 381 | Rearing |
| McKenzie | Blue River | 50 | 57 | Rearing |
| MF Willamette | Hills Creek | 400 | 509 | Rearing |
| MF Willamette | Dexter | 1,200 | 1,299 | Rearing |
| MF Willamette | Fall Creek | 50 | 542 | Rearing |

4.6. Pinniped Update (ODFW) - Three more CSL were removed from Willamette Falls for a total of eight. Another animal was identified to be eligible for the list. Three CSL and seven SSL were observed. Eppard asked if there is a limit to the number of animals that can be removed. There is a maximum of 93 animals under the LOA which is the same as BON.

4.7. BPA updates – No update

5. Willamette Valley Contract Status

5.1. Willamette Hatcheries (ODFW) – The contract will need to be renewed this year and the COE is working on the documents now.

5.2. Trout (Desert Springs) – The option year was awarded in December for 277K lbs for delivery in FY20 and the COE will work with ODFW for stocking locations. The COE will bring a draft schedule to WFPOM in March (likely April).

5.3. Monitoring and Evaluation (spawning surveys), scope/coordination- The task order should be awarded by 01 April. The target is 01 April. Mullan asked about the strange counts from the contractor last year and whether or not there would be additional training. Walker said that the counts are variable but it can be an agenda item for next month. It is not clear if more training is needed or what the source of the variability in the counts are. Reis said it was beyond normal variation. Walker requested protocols from ODFW to add to the scope of work for the new contract to ensure data consistency across years. Traylor suggested reviewing the data that was collected after the science review and compare it to past data. The final report is due ~~01~~30 April (date corrected). Wertheimer would like to be looped in because FFU had done some of the QA. Couture asked if ODFW would be able to see the scope of work for the Willamette Hatcheries contract and Mackey said that it will be similar to last time where ODFW review's the contract. The COE is working on the PWS and will send the Willamette Hatcheries contract for review as soon as possible. Eppard shifted the conversation back to the spawning surveys and said that he wants to caution against placing blame on the count discrepancies. Dishman's main concern is the inherit change in the data in going from ODFW to a contracted group and stresses that the data needs to be consistent. Eppard said that we need to look at the methods and examine differences. **A TASK GROUP meeting with Walker and Wertheimer co-chairing will be scheduled for immediately after the March meeting.** Walker requested the methods and protocol used by ODFW. EAS needs to finalize their data but their draft final will be out in March. Couture suggested talking to Luke Whitman about this project.

6. Coordination/Notification forms (need concurrence/discussion)

- 6.1. 19CGR01 MFR Ramp Rate Minimum Flow – no comments
- 6.2. 19CGR02 MFR Unit Outage – no comments
- 6.3. 19FOS01 Ladder Outage - no comments
- 6.4. 19FOS02 MFR turbine unit outage – no comments
- 6.5. 19FOS03 turbine unit outage – no comments

7. Task Group Updates.

- 7.1. Hatchery Management Team (HMT) – The Willamette hatchery brood stock pond is a high priority for HMT and NOAA due to the very high prespawning mortality. The proposed FY2020 budget has \$500K. The actual budget will not come out until March 11. Traylor suggested forming a PDT because \$500K is not enough to design and construct the pond. The design plans need to be updated with a more accurate cost estimate. The 2012 cost estimate done by ODFW was \$5.7 million for design and construction. NOAA is pushing this pond. An OCA will be completed at all the facilities and will help give visibility to this project. The funding for OCAs is not there yet, waiting on de-obligations but the inspections should be completed this year. The contracting office is working on the Leaburg property transfer but it hasn't been accomplished. Couture said that they need to add the water right in the lease.
- 7.2. SWIFT, Flow task group (Piaskowski) – No update
- 7.3. Total Dissolved Gas/Maintenance Periods (Walker) – The meeting was scheduled during the government shut down and needs to be rescheduled.

8. Fish Operations Plan: WFOP homepage:

http://pweb.crohms.org/tmt/documents/FPOM/2010/Willamette_Coordination/WFOP/

- 8.1. Status of WFOP
- 8.2. Change forms (all pending)
 - 8.2.1. 19OVE001 Ch1_Sect 2.3.2_Part iv_ODFW 02.14.2019.docx – **approved as revised to monthly updates at WFPOM.**
 - 8.2.2. 19OVE002 Ch1_Sect 2.4.4_ODFW 02.14.2019.docx - **approved**

- 8.2.3. 19OVE003 Ch1_Sect OVE 2. USACE.doc
- 8.2.4. 19NS001 Ch2_Sect 3.1_ODFW 02.14.2019.docx - **approved**
- 8.2.5. 19NS002 Ch2_Sect 4.1.1 Big Cliff_ODFW 02.14.2019.docx - **approved**
- 8.2.6. 19NS003 Ch2_Sect 4.1.1 TDG hardiness_ODFW 02.14.2019.docx - **approved**
- 8.2.7. 19NS004 Ch2_Sect 4.1_ODFW 02.14.2019.docx - **approved**
- 8.2.8. 19NS005 Ch2_Sect 5.1_ODFW 02.14.2019.docx – **approved**. Mackey suggested if the 30 days can't be met for whatever reason then coordination with WFPOM is required. Couture wants to make sure the language is consistent with the HGMP.
- 8.2.9. 19NS006 Ch2_Sect 5.2.1.5_ODFW 02.14.2019.docx – Couture said that Minto isn't designed for single time fish handling. Couture thought there would be a task group about this but Walker did not get a lot of response to a meeting. Walker suggested revising to “minimizing handling”. **Rejected. The whole bullet point was deleted but will have the task group to discuss the protocol.**
- 8.2.10. 19NS007 Ch2_Sect 5.2.1.11_ODFW 02.14.2019.docx – **approved**; the experimentation will be brought up to RME.
- 8.2.11. 19NS008 Ch2_Sect 5.2.1.12_ODFW 02.14.2019.docx - **approved**
- 8.2.12. 19NS009 Ch2_Sect 5.2.1.14_ODFW 02.14.2019.docx – this form is the same as 007
- 8.2.13. 19NS010 Ch2_Sect 5.2.1.17_ODFW 02.14.2019.docx - **approved**
- 8.2.14. 19NS011 Ch2_Sect 5.2.1.18_ODFW 02.14.2019.docx – Mackey didn't think the WFOP was an appropriate place for the wording of funding. In the future, the contract will reference the WFOP. Couture said that it hasn't been in the past contracts and ODFW shouldn't be required to do it if it is not in the contract. The next contract will be awarded in August and this work will be part of the contract since it is in the WFOP. The collection won't start until 2020. Chane is funding some fin clips in the gap between right now and the next contract. The fin clips will be stored at the facilities and not to O'Malley's lab. Couture thinks there is a benefit to sending the samples to the State's lab for storing samples for efficiency and organization. **Rejected.**
- 8.2.15. 19NS012 Ch2_Sect 5.2.2.11_ODFW 02.14.2019.docx- Walker had a form from Appendix G to be filled out but Couture was unaware of this form and the hatcheries were not filling it out. Walker suggested ODFW review the form. This question should go to the task group. Wording will stay as is. **Rejected.**
- 8.2.16. 19NS013 Ch2_Sect 5.2.2.14_ODFW 02.14.2019.docx – ODFW doesn't use this method anymore so it can be removed. **Approved.**
- 8.2.17. 19NS014 Ch2_Sect 5.2.2.16_ODFW 02.14.2019.docx – ODFW monitors oxygen and temperatures and only release temperatures are recorded. Mackey said that a form will have to be used for QA/QC to make sure all parts of the contract are being performed. Ideally, the forms would be collated into a report and used to verify meeting the targets in the contract. Traylor suggested including them as an appendix to the final report.
- 8.2.18. 19NS015 Ch2_Sect 5.2.2.18. b Minto USACE.doc – **approved**
- 8.2.19. 19NS016 Ch2_Sect 5.2.2.18. Minto USACE.doc
- 8.2.20. 19NS017 Ch2_Sect 5.2.2.18_ODFW 02.14.2019.docx
- 8.2.21. 19NS018 Ch2_Sect 5.2.2.19_ODFW 02.14.2019.docx
- 8.2.22. 19NS019 Ch2_Sect 6.1. Minto USACE.doc
- 8.2.23. 19NS020 Ch2_Sect 6.1_ODFW 02.14.2019.docx
- 8.2.24. 19NS021 Ch2_Sect 7.1_ODFW 02.14.2019.docx
- 8.2.25. 19NS022 Ch2_Sect 8.3.1_ODFW 02.14.2019.docx
- 8.2.26. 19SS001 Ch3_Sect 5.1_ODFW 02.14.2019.docx
- 8.2.27. 19SS002 Ch3_Sect 5.2.1.11_ODFW 02.14.2019.docx
- 8.2.28. 19SS003 Ch3_Sect 5.2.1.14_ODFW 02.14.2019.docx

- 8.2.29. 19SS004 Ch3_Sect 5.2.1.18_ODFW 02.14.2019.docx
- 8.2.30. 19SS005 Ch3_Sect 5.2.2.12_ODFW 02.14.2019.docx
- 8.2.31. 19SS006 Ch3_Sect 5.2.2.14_ODFW 02.14.2019.docx
- 8.2.32. 19SS007 Ch3_Sect 5.2.2.18. Foster USACE.doc
- 8.2.33. 19SS008 Ch3_Sect 6.1. Foster USACE.doc
- 8.2.34. 19SS009 Ch3_Sect 7.1_ODFW 02.14.2019.docx
- 8.2.35. 19SS010 Ch3_Sect 7.9_ODFW 02.14.2019.docx
- 8.2.36. 19SS011 Ch3_Sect 8.3.2.2_ODFW 02.14.2019.docx
- 8.2.37. 19MCK001 Ch4_general_ODFW 02.14.2019.docx
- 8.2.38. 19MCK002 Ch4_Sect 5. Cougar USACE.doc
- 8.2.39. 19MCK003 Ch4_Sect 5.2.2.18. Cougar USACE.doc
- 8.2.40. 19MCK004 Ch4_Sect 5.2.2.19. Cougar USACE.doc
- 8.2.41. 19MCK005 Ch4_Sect 5.2.2.19_ODFW 02.14.2019.docx
- 8.2.42. 19MCK006 Ch4_Section 5.2.1.8_ODFW 02.14.2019.docx
- 8.2.43. 19MCK007 Ch4_Section 5.2.1.14_ODFW 02.14.2019.docx
- 8.2.44. 19MCK008 Ch4_Section 5.2.1.18_ODFW 02.14.2019.docx
- 8.2.45. 19MCK009 Ch4_Section 5.2.2.18_ODFW 02.14.2019.docx
- 8.2.46. 19MFW001 Ch5_Sect 5. Dexter Fall Creek USACE.doc
- 8.2.47. 19MFW002 Ch5_Sect 5. Dexter USACE.doc
- 8.2.48. 19MFW003 Ch5_Sect 5.1_ODFW 02.14.2019.docx
- 8.2.49. 19MFW004 Ch5_Sect 5.2.1.2_ODFW 02.14.2019.docx
- 8.2.50. 19MFW005 Ch5_Sect 5.2.1.4_ODFW 02.14.2019.docx
- 8.2.51. 19MFW006 Ch5_Sect 5.2.1.10_ODFW 02.14.2019.docx
- 8.2.52. 19MFW007 Ch5_Sect 5.2.1.11_ODFW 02.14.2019.docx
- 8.2.53. 19MFW008 Ch5_Sect 5.2.1.14_ODFW 02.14.2019.docx
- 8.2.54. 19MFW009 Ch5_Sect 5.2.1.18_ODFW 02.14.2019.docx
- 8.2.55. 19MFW010 Ch5_Sect 5.2.2.5_ODFW 02.14.2019.docx
- 8.2.56. 19MFW011 Ch5_Sect 5.2.2.14_ODFW 02.14.2019.docx
- 8.2.57. 19MFW012 Ch5_Sect 5.2.2.16_ODFW 02.14.2019.docx
- 8.2.58. 19MFW013 Ch5_Sect 5.2.2.18. Fall Creek Dexter USACE.doc
- 8.2.59. 19MFW014 Ch5_Sect 5.2.2.18_ODFW 02.14.2019.docx
- 8.2.60. 19MFW015 Ch5_Sect 5.2.2.19. Fall Creek Dexter USACE.doc
- 8.2.61. 19MFW016 Ch5_Sect 5_ODFW 02.14.2019.docx
- 8.2.62. 19MFW017 Ch5_Sect 6.1.1 and 6.1.2. Fall Creek USACE.doc
- 8.2.63. 19MFW018 Ch5_Sect 6.2. Dexter USACE.doc
- 8.2.64. 18NS003 – Maintenance Periods

Walker will apply approved change forms relevant (or the same) to other subbasins.