

MEMORANDUM FOR THE RECORD

Subject: FINAL minutes for the 26 October 2022 WFPOM meeting. The meeting was held via WebEx and call in.

In Attendance:

Last Name	First Name	Email
Berge	Hans	hans.berge@fishsciences.net
Buccola	Norman	norman.l.buccola@usace.army.mil
Couture	Ryan	Ryan.B.COUTURE@odfw.oregon.gov
Flaherty	Ryan	ryan.flaherty@fishsciences.net
Garletts	Doug	Douglas.F.Garletts@usace.army.mil
Gibbons	Karrie	Karrie.M.Gibbons@usace.army.mil
Grenbemer	Greg	Greg.A.GRENBEMER@odfw.oregon.gov
Helms	Chad	Chad.K.Helms@usace.army.mil
Jundt	Melissa	melissa.jundt@noaa.gov
Kruzic	Lance	lance.kruzic@noaa.gov
Mullan	Anne	Anne.Mullan@noaa.gov
Pierce	Todd	Todd.M.Pierce@usace.army.mil
Reis	Kelly	Kelly.E.REIS@odfw.oregon.gov
Sachs	Steven	Steven.A.Sachs@usace.army.mil
Scott	Shane	shane@sscottandassociates.com
Tackley	Kathryn	Kathryn.L.Tackley@usace.army.mil
Trachtenbarg	David	David.A.Trachtenbarg@usace.army.mil
Watts	Joel	Joel.Watts@odfw.oregon.gov
Walker	Chris	Christopher.E.Walker@usace.army.mil
Wertheimer	Bob	Robert.H.Wertheimer@usace.army.mil
Ziller	Jeff	Jeffrey.S.ZILLER@odfw.oregon.gov

1. **Approve W-FPOM minutes (September)** – Minutes approved.

2. **Action Items** – No new items added.

3. **Updates**

3.1. North Santiam

3.1.1. Marion Forks Hatchery – Grenbemer - Brood year 2021 fish are healthy and on schedule regarding size, the first group of smolts will be taken to Minto during the 1st week of November. We are shutting down the Marion creek intake. A total of 7,362 adult spring Chinook salmon (ChS) were collected this year. A few coho and steelhead are still showing up but in very low numbers.

Wertheimer – How many natural origin returns (NOR) fish have been seen?

Grenbemer – A total of 6,329 ad-clipped, and 1,339 NOR.

3.1.1.1. Marion Creek intake – Wertheimer – We are waiting on funding to get it to small projects for an inspection.

3.1.2. Minto Fish Facility

- 3.1.2.1.** Maintenance activities needed or recently completed. – Grenbemer – The final inspection for the new shop building is on Thursday. Pond 3 and 8 recirculation motors are under repair. The facility is now back on the main compressor.
- 3.1.2.2.** Other items - None
- 3.2. South Santiam**
- 3.2.1.** South Santiam Hatchery – Couture – Things are going well at the hatchery, 6,682 Chs at Foster with 281 NOR back to foster, numbers of NOR was skewed towards males.
- 3.2.2.** Foster Fish Facility
- 3.2.2.1.** Maintenance activities needed or recently completed. None.
- 3.2.3.** River Bend Adult Release Site - Couture – Site is repaired and back in service.
- 3.2.4.** Green Peter Dam outplanting/spawning surveys – Flaherty – Update for Sept 9 to Oct 14 season. Training was conducted before the season both on stream and on fish carcasses. On Sept 8th 200 ChS were released at Miners Camp along Quartzville Creek. A total of 5 reaches were surveyed once per week. The study was comprised of 6 weeks total. Temperature distribution showed that temperature decreased throughout the season; Canal Creek and Quartzville 1 had consistently lower temperatures than lower reaches, thus showing some evidence of thermal refuges. Live fish observations were highest in first full week of surveys (week 37). A total of 27 redds were detected this season, with the majority seen in upper reaches. The majority of redd construction was in week 38. A total of 74 carcass were recovered, peaking in week 38. Sex ratio was close to 1 to 1. Pre-spawn mortality was about 11%. A single fish was recovered in Quartzville Creek in reach 3 that seemed to originate from the Middle Santiam release. 26% of fish were missing floy tags. Couture – The blue floy tagged fish might have been a holdover from transport. Floy tags had some breaking issues and fish had to be re-tagged. Flaherty – Will check with Boyd on the blue floy tag. Could use PIT tags or use an operculum punch next year. Walker – What is the normal tag retention rate? Couture – There could have been an issue with a bad batch of tags. Ziller – Double tagging has been used in the past on other studies. Trachtenbarg – Currently working on getting a screw trap below the Quartzville reaches to start in February.
- 3.3. McKenzie**
- 3.3.1.** McKenzie Hatchery – Couture – 0 fish collected at the hatchery due to lack of water and temperature issues.
- 3.3.2.** Leaburg Hatchery – Couture- 883 ChS swim ins (Leaburg Hatchery trap) and 1,217 ChS collected in sorter. Both fish held for spawning at Minto and those at Leaburg did well. There were 606 males, 350 female and 11 jack ChS outplanted above Cougar.
- 3.3.3.** Cougar Fish Facility
- 3.3.3.1.** Maintenance activities needed or recently completed. Helms – We shut down Oct 18 ,144 adult ChS total for the season and 84 of those were outplanted above Cougar. 12 bull trout total for the season. Trachtenbarg – We have had 5 bull trout in upper head of res RST trap in the last week.
- 3.4. Middle Fork**
- 3.4.1.** Willamette Hatchery - Couture – Things are going well at the hatchery, 3,472 fish at dexter total, 800 fish held at foster had 5% Pre-Spawn Mortality (compared to the same stock held at Willamette last year which had 72%). Outplanting saw 680 ChS in

the NFMF and 462 ChS in Hills Creek outplanted. The Cedar Creek fire is over, and rain has alleviated the smoke. There was a flash flood alert but there has been no flooding so far, no direct fire impacts yet but will keep an eye on it.

Couture – The holding pond at Willamette needs to be addressed and should be considered along with the Dexter rebuild.

Kruzic – Things are not going to get better at Dexter for holding adults even with the rebuild considering temperatures; the adult holding issues has been present for years.

Walker – The holding pond is in the budget request, but we are waiting on funding.

- 3.4.2. Dexter Fish Facility
 - 3.4.2.1. Maintenance activities needed or recently completed. No update.
- 3.4.3. Fall Creek Fish Facility
 - 3.4.3.1. Maintenance activities needed or recently completed - Garletts – We shut down for the year. 139 Chs transported and 76 winter steelhead.
Ziller – Has anyone checked on spawning for outplants above Fall Creek?
Garletts – No one has checked to my knowledge and flows are now too high to check at this time.
- 3.5. Bull trout and Oregon Chub (Taylor) – No update
- 3.6. WFFDWG/Research updates (Laird) Trachtenbarg – Sending out bi-weekly update for RST
- 3.7. Water Quality updates (S. Hart) – Update below with injunction operations.
- 3.8. Flow update (S. Hart)
- 3.9. BPA updates – No updates.
- 3.10. Pinniped Updates – Willamette – No update.
BON – Wertheimer - 7 Steller's in the tailrace, the SSL have not been hauling out on traps, fewer SSL than in the past, numbers may increase with Chum run.

4. HGMP BiOp T&Cs

- 4.1. Production and Biometrics – included in the hatchery production contracts.
- 4.2. Use of natural origin broodstock. Walker – It would be good to put on the record what we've done.
Reis – The info is included in the 3-year report.
Couture – Did the draft report include 2022?
Reis – Draft report does not include 2022.
- 4.3. Bennett Counts (ODFW)
- 4.4. Lebanon Counts (USACE)
- 4.5. Leaburg Counts (EWEB/USACE)
- 4.6. Reducing pHOS in the McKenzie River - Leaburg sorter – The sorter was run Jun through Aug, 7 days a week. Ladder trap was run in Sep. The first fish started coming in mid-June, later than normal due to cold/wet spring. Most hatchery fish started in Sep. Good wild run this year above Leaburg with very low hatchery fish above Leaburg. 3% pHOS compared to 40% in previous years without the sorter. The right bank ladder is preferred by lamprey, thus the use of the grate at the ladder entrance to allow them through. Very few adult fish in right ladder. 244 lampreys passed the dam this year, the highest since they've been counted.
Kruzic – Its very good to see the pHOS going down. Did the grate slow Chinook passage?
Ziller- We checked for Chinook jumping at the grates and did not see any. We did see fish jumping at the dam itself. Waiting on lower river surveys for data on HOR vs NOR below dam. High NOR below the dam could be an indication of impeding passage.
Kruzic – What kind of jacks went up right bank?
Ziller – Jacks up right bank were very small in size, 9 jacks in total.
- 4.7. Improving broodstock holding at Willamette Hatchery
- 4.8. Analyze steelhead genetics (ODFW)

- 4.9. Assess future effects of hatchery summer steelhead in the North and South Santiam Rivers. (ODFW)
- 4.10. Assess genetic pedigree of Chinook salmon (up to 2019 and then every five years after) Walker – The lab is planning to have results for McKenzie in December and for the South Santiam in the spring 2023. Fall creek will follow that.
- 4.11. Assess salmon spawning above federal dams
- 4.12. Adaptively manage hatchery salmon outplanting above federal dams.
- 4.13. Willamette Chinook Salmon Database.
- 4.14. Three-year report for NMFS SFD. Report due 2022. Walker – The report is being reviewed.
- 5. Willamette Valley Production Contracts**
- 5.1. Willamette Hatcheries – Walker – Working on mod for the use of hatchery fish for RME.
- 5.2. Trout Production – Walker - Awarded all options in September, next action will be at end of FY 2023
- 6. Coordination/Notification forms (need concurrence/discussion)**
- Ongoing:
- 6.1. 21CGR02 Cougar Butterfly Valve Replacement (2024) Walker – This may be pushed to 2025
- 6.2. 22DEX02 MOC Fish Facility Rebuild IWW periods
- New:
- 6.3. 22FOS03 South Santiam River Flows – Walker - Successfully completed, comments due in two weeks.
- 9. Task Group/PDT Updates.**
- 9.1. Willamette Valley Operational Fish Passage Measures (PDT) Tackley - Detroit – Continuing with temp management, on Oct 25th went to 100% upper RO, 4,800 cfs released out of Detroit. Lower RO should be open in early Nov. Total dissolved gas (TDG) is elevated due to RO operation but are keeping in check. Temps look better than last year. Meeting with USGS and NMFS to continue improvements.
- Fall Creek – RO is full open for full draw down, 713 current, 696.95 by the end of week, will refill to 700 and conduct second draw down 1 week Dec.
- Hills Creek – Following the rule curve.
- Foster – 622 currently, using spillway at night for fish passage.
- Cougar – 1,505 by early Nov all water through RO, 940 CFS but may increase before next rains. 110% TDG currently.
- Green Peter and Lookout – Planning deep drawdown for 2023, putting in generators for back up at GP. Work is on track. Working with USGS to install turbidity and TDG gages and will start monitoring year-round.
- Grenbemer – We are 140 Temp Units behind last year, so things seem to be working well.
- 9.2. Green Peter Outplanting Task Group
- 9.3. Safety and Environmental corrections (PDT)
- 9.4. Hatchery Non-routine maintenance/repairs (PDT)
- 9.5. McKenzie Water Supply (PDT)
- 10. Fish Operations Plan:** WFOP homepage: Walker – Incorporating dam operations into the fish operations plan (FOP).

