

MEMORANDUM FOR THE RECORD

Subject: FINAL minutes for the 28 August 2019 WFPOM meeting.

The meeting was held in the Steelhead Room at the ODFW Head Quarters Office in Salem, OR. In attendance:

Last	First	Agency	Email
Barrowcliff	Gregory	NWP-ODV	Gregory.J.Barrowcliff@usace.army.mil
Couture	Ryan	ODFW	ryan.b.Couture@state.or.us
Garletts	Doug	NWP-ODV	Douglas.F.Garletts@usace.army.mil
Grenbemer	Greg	ODFW- Marion Forks/ Minto	Greg.A.Grenbemer@state.or.us
Helms	Chad	NWP-ODV	Chad.K.Helms@usace.army.mil
Kelley	Elise	ODFW	elise.x.kelley@state.or.us
Kremers	Kurt	ODFW	kurt.kremers@state.or.us
Kruzic	Lance	NOAA	Lance.Kruzic@noaa.gov
Mackey	Tammy	NWP-ODT-F	Tammy.M.Mackey@usace.army.mil
Mullan	Anne	NMFS	Anne.Mullan@noaa.gov
Myers	Jim	NOAA	Jim.Myers@noaa.gov
Neuenhoff	Rachel	NWP-PME	Rachel.D.Neuenhoff@usace.army.mil
Piaskowski	Rich	NWP-PME	Richard.M.Piaskowski@usace.army.mil
Reis	Kelly	ODFW	Kelly.E.Reis@state.or.us
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: Barrowcliff, Garletts, Helms, Kremers, Myers and Neuenhoff.

1. **Final decisions or recommendations made at this meeting.**
 - 1.1. **July meeting minutes were approved.**
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
3. **Action Items**
 - 3.1. **[August] Foster Fish Facility special phone call meeting about Brood Stock - ACTION:**
Walker will send the draft MOC to ODFW to add the pump plan.
 - 3.2. **[July 2019] Minto Fish Facility - ACTION:** Helms and Garletts will check with Greg Taylor on the status of clogging screens. *Status: The screens were cleaned when the Detroit crew came down. A crane was rented to clean the screens. A quick ladder shutdown causes a burst that helps to keep the screens clean. In addition, the automatic timer is set for 4hrs rather than 8 hrs. This is an annual problem. When the COE has a crane available, the screen gets cleaned. The water flow is decent fix.*
 - 3.3. **[July 2019] Minto Fish Facility - ACTION:** Garletts will call Greg Eickmann about the compressor. *Status: The compressor has not been returned yet. The question is does the Detroit crew still need the compressor. If they need the compressor all the time, they need to purchase a new compressor. Garletts will talk to Taylor today. Grenbemer brought up the maintenance of the compressor and hopes the PMs have been completed.*

3.4. [July 2019] Foster Fish Facility - ACTION: Walker will set up a special phone call to discuss contingency plans for brood stock shortages at Foster. *Status: The phone call meeting occurred and they discussed renting pumps and the slow process of the COE contracting. Walker is not sure where they stand. There was follow up discussion about using a spill operation at Foster. Couture had a quote from a contractor for ~\$20K to rent pumps. Mullan said that it is a diversion from the flow target. Mackey wants an MOC completed since this plan is for fish spill and it will complete the admin record. Derugin had started the MOC but needs more details about the pump plan. ACTION: Walker will send the draft MOC to ODFW to add the pump plan.*

4. Hatchery Biological Opinion Presentation (Kruzic) – This presentation was to walk everyone through the analysis that supports this new Biological Opinion. The first hatchery BiOp was in 2000. The second was in 2008 that evaluated the dams and the mitigation hatchery programs. An integration schedule was introduced after 2008. Since then, many studies have occurred with lots of new data that NOAA analyzed in order to write the BiOp. They looked at as many factors as they could like the genetic effects, ecological effects, facility effects, use of water and fishing for hatchery fish.

4.1. Spring Chinook program – the key new action is taking wild fish and integrating into the hatchery brood stock. NOAA evaluated the risks (removing wild fish from the natural environment) compared to the benefits (reducing the genetic impact of hatchery fish on the wild population and infusing wild genes into the brood stock). The overall concept is if more wild fish are returning than more wild fish can be incorporated. The reverse is true as well. Tables are set up for number of fish that can be incorporated. The data showed that 30% was a good place to be. The limiting factor is the number of wild fish. The numbers are the maximum take, including males and females. Grenbemer asked if it is supposed to be 50% male/female. Kruzic said that he is leaving it up to the hatchery. Kremers said they are heavy on males this year and asked if they should keep taking males. Kruzic said the cap is the number of wild fish not the percentage. This year is complicated by the lack of Leaburg counts. This table requires forecasting from the returning counts of wild fish. Benet, Leaburg and Lebanon counts are required. The counts were put in as a terms and conditions statement in the Biological Opinion. Wertheimer asked if they could rework in females if more females come later. Kruzic would not like to see that. There is criteria in the BiOp as to when the forecasts need to be updated. PHOS has been high in all the populations. Kruzic stressed that there are different management objectives for each stock. All the pedigree analysis was new for this BiOp and has been highly informative on the hatchery program. NOAA included the continuation of the pedigree analysis in the terms and conditions. A lot of samples have been taken but have not been analyzed. Piaskowski asked if there was any expectation of pedigree work in the Middle Fork considering the limited wild returns. Kruzic said no and that the N. Santiam was the biggest concern. Piaskowski said that they have requested CRFM funding for the pedigree work in the N. Santiam. Neuenhoff thinks that the N. Santiam will go through but is not sure about the other sub basins. The populations have been heavily influenced by the hatchery program and Kruzic believes that the integration of the wild fish will help a lot in this regard. The PNI is a combination of the pHOS and pNOP. The pNI is adding wild fish to the brood stock not deciding how to get the fish. Several populations were created by hatchery supplementation. Several facilities need to be improved because the hatchery program is not going away. Increasing survival of brood stock will help in the long run. Piaskowski brought up the funding priorities that need to be addressed. Wertheimer asked about adding passage to an area like Detroit and if it then becomes designated as critical habitat. Kruzic said that if there are ESA listed fish in the habitat, it triggers a consultation. Mullan said that even if ESA listed fish are there, it doesn't mean that the land will be designated as critical. Adversely affecting habitat could cause it to become critical.

Wertheimer said the designation adds another layer of protection. Mullan said it does but that all factors effecting a habitat would be assessed in the original consultation.

4.2. Summer steelhead program – a stock of Columbia River steelhead has been propagated for the last 52 years. The primary concern is evaluating the genetic effects between the summer and winter steelhead. Summers spawn earlier but the tail ends of spawning dates overlap. Summer and winter steelhead co-occur in the wild. New information has been collected since 2008 from radio tagged data and genetic information. Spawn timing data was used extensively in the analysis. Spawn time advancement started by intentionally spawning the earliest arrivers at Foster in 2013. Now the majority of fish are spawned in December instead of January. The COE rebuilt the Minto trap in 2013 and starting in 2014, the StS were acclimated there before being released. Now, the fish are collected much more efficiently. About 90% of the fish passing Benet show up at Minto. This was a major reform action that provided benefits to the wild population. NOAA was able to calculate the gene flow from the summer steelhead over the last 52 years using several models. Hybridization of summer and winter steelhead was looked at as well. It is very difficult to identify a hybrid because of the genetic legacies. All the genetic data was factored into the Bi OP. The risk factor analysis included the genetic stocks. Further production reductions in the South Santiam is another remedial action to lower risks of the program to the S. Santiam. Gene flow has to be less than 2%. If the gene flow is above 2% then further remedial actions need to take place. North and South Santiam were the two genetic hot spots. Piaskowski added that for steelhead there is a rapid effect using them in hatchery. Kruzic agreed and said that the separation of summer and winter steelhead is taking place. They are on the trajectory of lessening the impacts between summer and winter stocks. Myers said that early winter run steelhead do fine at the coast but when they were introduced to the Mollala then the run didn't do as well due to competition. The early winter runs mess up the counts at the Falls. Kelley said all winter steelhead are listed. Myers said yes but they are concerned about the native stocks and it is hard to differentiate between these fish. Myers will forward some pertinent data to Elise Kelley. The trout program that supports recreational fishing is deemed to have low effects to the native population. Mackey said that in October more time will be scheduled to discuss details and help prioritize the actions.

5. Updates

5.1. North Santiam

5.1.1. Marion Forks Hatchery – Fish health looks good. Mackey asked if the safety team has come out to address items found in the inspection. Grenbemer said the plan is for next year.

5.1.1.1. Valves and Pipe issues – A team of engineers have looked at the infrastructure to assess the condition. They will put a camera into the pipe for inspection in November and at that time, they will shut the intake down. There are no isolation valves so most of the hatchery has to be shut down.

5.1.1.2. Asbestos – Three site visits have been canceled. The next one is scheduled for 11 September. The contract has not yet been awarded.

5.1.2. Minto Fish Facility – There was a total water failure. The generator did not respond to the commercial power. An electrician put the system in manual mode but the system has now been switched back to automatic. The breaker will be reprogrammed to accept the grid electricity. Mackey wants to walk through SOP for the projects to discuss the critical components and what to do an event of a failure. These discussions are scheduled for this fall. The spill way crest at Detroit is about to go low enough to halt spill.

5.1.2.1. Compressor – discussed already

5.1.2.2. Intake screen – discussed already

5.1.2.3. AWS gate – This topic needs to stay on the agenda.

5.1.2.4. Juvenile release pipe – The window for installation was in October but this will not be feasible. There are issues with the texture of the inside of the pipe. Couture has an email string with the discussion about the pipe design and will forward this string to Mackey and Wertheimer.

5.2. South Santiam

5.2.1. South Santiam Hatchery – Production is going well.

5.2.2. Foster Fish Facility –

5.2.2.1. Ladder and Adult Collection Issue - 206 ChS have returned, 45 are unmarked and have been placed above the dam. This is a dire situation for brood stock. There are about equal numbers of males and females. Usually there are more fish in the tailrace waiting but not this year. Spawning surveys have not found many fish.

5.2.3. River Bend Adult Release Site – Erosion issues are still on going. This site is critical. The Gordon Road site is much closer to the head waters. The River Bend site can take advantage of more habitat in the system. The River Bend site is used until the water is so low that the release pipe cannot reach the water then the Gordon Road site is used.

5.3. McKenzie

5.3.1. McKenzie Hatchery (water supply) – The water supply is stable at 15cfs. The temperature peaked at 65.6°. The cooler nights are helping to cool the water. Twenty fish have come in the last 10 days and they hadn't seen any fish since July. FERC will not allow the gates to open to refresh the canal and cool the water. A concrete pad has been poured to install a power supply for a submersible pump for next year. Kremers would like 25cfs in the canal for next year. The water supply is currently based on leakage from the gate which could plug up at any time. Kruzic said that EWEB was against opening the gates because of a safety issue. Kremers said that EWEB had opened the gate earlier but has not received permission from FERC to do it again. There are three roll gates on Leaburg Dam and when a different gate was opened, it pushed 90 hatchery fish came into Leaburg Hatchery trap. EWEB is going to open the right roll gate for the rest of the fall to encourage more fish to the left bank ladder. So far, there are 115 pair at Minto, 60 pair at Leaburg Hatchery and 8 pair at McKenzie not counting the 20 fish in the trap. Brood stock collection appears to be improving.

5.3.2. Cougar Fish Facility – A total of 126 ChS have returned, double floy tagged and released downstream. Out of those 47 (16 females and 31 males) have come back a second time and were out planted above the dam. 13 Bull trout have returned and a couple of hatchery males that were brought to McKenzie.

5.3.3. Leaburg Hatchery (lease/use) – The lease agreement has not yet been signed. Mackey heard that there is an effort to add the transfer to a WRDA document which would help streamline the process.

5.4. Middle Fork – Adult collection -

5.4.1. Willamette Hatchery – Fin marking is complete. Production is going well.

5.4.2. Dexter Fish Facility – Production is going well. Adult collection is at 3,479 ChS. 559 have been out planted in the North Fork/Middle fork and ~300 out planted above Hills Creek. The minimum goals of the Disposition Table have been met. Pre-spawn mortality is better than in years past but they are still cautious. Mullan asked about the bridge work at Hills Creek and how it might affect the temperature. No one was aware of the work.

- 5.4.3. Fall Creek Fish Facility – A total of 189 unmarked ChS males, 57 females and 75 jacks have returned to the facility. The jack counts is higher than usual. Garletts reported that the RO is open and ~600cfs is coming out of the dam. The Fall Creek temperature is in the low 50° but varies with the air temperatures. The creek is low.
- 5.5. HGMP updates – remove next month
- 5.6. WFFDWG/Research updates – The concept paper rank with the steering and RME team happened last month. The budget for next year is considerably lower than in past years which makes the decisions harder. Piaskowski mentioned a couple of studies that are funded: the Foster Out Planting study, Interim Out Planting Study in the Santiam that will incorporate the genetic study and SWIFT related modeling work in Phase 2. The next SWIFT meeting is 15 October. The SWIFT team is CRFM funded. Piaskowski is trying to get funding for one additional study to model the middle fork downstream passage.
- 5.7. Water Quality updates – There is slightly elevated TDG due to the spill at Detroit but when the spill ends then the problem should go away.
- 5.8. Flow update

Sub-basin	Dam	Minimum Flow (cfs)	Current Flow (cfs)	Primary Use
North Santiam	Big Cliff	1,000	1,051	rearing
South Santiam	Foster	800	865	rearing
SF McKenzie	Cougar	300	884	rearing
McKenzie	Blue River	50	301	rearing
MF Willamette	Hills Creek	400	1040	rearing
MF Willamette	Dexter	1,200	2016	rearing
MF Willamette	Fall Creek	80	631	rearing

- 5.9. Pinniped Update (ODFW) – There are no pinnipeds below Willamette Falls and 20 SSL below Bonneville.
- 5.10. Fish Counts (Bennett/Leaburg) – Video counts continue but the tape is read only when they can. Bennett counts are updated weekly but the long term plan is unknown. New equipment was put in at Leaburg but it has been problematic. Kremers said that they are two weeks behind on reading the tape.
- 5.11. BPA updates – no update.

6. Willamette Valley Contract Status

- 6.1. Willamette Hatcheries (ODFW) – This contract should be awarded by the end of the week.
- 6.2. Trout (Desert Springs) – The COE needs to award the final option year by January and have a new contract in place by September.
 - 6.2.1. McKenzie boat stocking – Ziller had requested to switch some releases to Cottage Grove but with contracting constraints that was not possible. Ziller has followed up with additional justification but modifications are difficult and costly. Wertheimer needs to work with ODFW on the assessments and justifications. Couture thinks it is a pound for pound swap and Ziller wants to use this as a pilot study to use for future McKenzie releases.
- 6.3. Monitoring and Evaluation (spawning surveys) – The current contract is underway. For next year, downstream surveys are not a priority and the contract may have to be reviewed.
 - 6.3.1. USACE/ODFW Coordination (Wertheimer) – The surveys have found only a few carcasses and no redds all over the basin.

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

7.1. 19FOS06 Foster Fish Facility (fish ladder temperature) – Comments are due soon.

8. **Fish Operations Plan:** WFOP homepage:

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

8.1. Status of WFOP

9. **Task Group Updates.**

9.1. SWIFT, Flow task group (Piaskowski) – This will be moved to research update.