

## MEMORANDUM FOR THE RECORD

Subject: DRAFT minutes for the 27 April 2016 Willamette FPOM meeting.

The meeting was held at USACE NWP HQ, Block 300. Portland, Oregon. In attendance:

<b>Last</b>	<b>First</b>	<b>Agency</b>	<b>Email</b>
Burchfield	Stephanie	NMFS	<a href="mailto:Stephanie.burchfield@noaa.gov">Stephanie.burchfield@noaa.gov</a>
CGRture	Ryan	ODFW	<a href="mailto:ryan.b.CGRture@state.or.us">ryan.b.CGRture@state.or.us</a>
Dalgliesh	Jane	NWP-OD-TF	<a href="mailto:Jane.M.Dalgliesh@usace.army.mil">Jane.M.Dalgliesh@usace.army.mil</a>
Fielding	Scott	NWP	<a href="mailto:Scott.d.fielding@usace.army.mil">Scott.d.fielding@usace.army.mil</a>
Grenbemer	Greg	ODFW- Marion Forks/ Minto	<a href="mailto:Greg.A.Grenbemer@state.or.us">Greg.A.Grenbemer@state.or.us</a>
Hall	Elizabeth	NWP-OD-V	<a href="mailto:Elizabeth.m.hall@usace.army.mil">Elizabeth.m.hall@usace.army.mil</a>
Hatfield	Kim	NMFS	<a href="mailto:Kim.Hatfield@noaa.gov">Kim.Hatfield@noaa.gov</a>
Helms	Chad	NWP-OD-V	<a href="mailto:Chad.K.Helms@usace.army.mil">Chad.K.Helms@usace.army.mil</a>
Graham-Hudson	Bernadette	ODFW	<a href="mailto:Bernadette.n.graham-hudson@state.or.us">Bernadette.n.graham-hudson@state.or.us</a>
Hudson	Mike	USFWS	<a href="mailto:michael_hudson@fws.gov">michael_hudson@fws.gov</a>
Khan	Fenton	NWP-PM-E	<a href="mailto:Fenton.o.khan@usace.army.mil">Fenton.o.khan@usace.army.mil</a>
Kremers	Kurt	ODFW	<a href="mailto:kurt.kremers@state.or.us">kurt.kremers@state.or.us</a>
Kruzic	Lance	NMFS	<a href="mailto:lance.kruzic@noaa.gov">lance.kruzic@noaa.gov</a>
Mackey	Tammy	NWP-OD-TF	<a href="mailto:Tammy.M.Mackey@usace.army.mil">Tammy.M.Mackey@usace.army.mil</a>
Mullan	Anne	NMFS	<a href="mailto:Anne.Mullan@noaa.gov">Anne.Mullan@noaa.gov</a>
Rayfield	Katie	NWP-OD-V	<a href="mailto:Katie.c.rayfield@usace.army.mil">Katie.c.rayfield@usace.army.mil</a>
Richards	Natalie	NWP	<a href="mailto:Natalie.A.Richards@usace.army.mil">Natalie.A.Richards@usace.army.mil</a>
Sharpe	Cameron	ODFW	<a href="mailto:Cameron.sharpe@oregonstate.edu">Cameron.sharpe@oregonstate.edu</a>
Spear	Dan	BPA	<a href="mailto:djspear@bpa.gov">djspear@bpa.gov</a>
Tackley	Kathryn	NWP-EC-HR	<a href="mailto:Kathryn.l.tackley@usace.army.mil">Kathryn.l.tackley@usace.army.mil</a>
Teed	Tina	NWP-EC-HR	<a href="mailto:Tina.j.teed@usace.army.mil">Tina.j.teed@usace.army.mil</a>
Traylor	Andy	NWP-OD-TF	<a href="mailto:Andrew.W.Traylor@usace.army.mil">Andrew.W.Traylor@usace.army.mil</a>
Walker	Chris	NWP-OD-TF	<a href="mailto:Christopher.E.Walker@usace.army.mil">Christopher.E.Walker@usace.army.mil</a>
Ziller	Jeff	ODFW	<a href="mailto:Jeffrey.S.Ziller@state.or.us">Jeffrey.S.Ziller@state.or.us</a>

Couture, Grenbemer, Hall, Helms, Graham-Hudson, Kremers, Kruzic, Mullan, Rayfield, Richards, Sharpe, Spear, and Ziller called in.

All documents may be found at [http://www.nwd-  
wc.usace.army.mil/tmt/documents/FPOM/2010/Willamette\\_Coordination](http://www.nwd-<br/>wc.usace.army.mil/tmt/documents/FPOM/2010/Willamette_Coordination)

## 1. Final actions:

### 1.1. March 2016 WFPOM meeting minutes approved.

## 2. Action Items

- 2.1. **[Apr 2016]** MOC will be provided regarding the outage of the Foster Fish Facility Ladder for equipment install. Should be coming from Fenton Khan's MOC. Taylor reported that he thought the work was completed when the facility was out for safety modifications this winter. **ACTION:** Dalglish to check with Fenton Khan on the status. **UPDATE:** Khan reported that some research equipment (Didson camera) still needs to be installed as soon as funding is approved. Should occur the week of 23 May. Khan will submit for the ladder outage. Boyd with is aware. The pit antenna work was completed during the safety upgrades. The work should only take 1 day. **ACTION:** Khan to submit MOC for outage.
- 2.2. **[Apr 2016]** Research/WFFDRWG (FPT) updates. No one from planning present. Taylor said Piaskowski is putting together a flow workshop for April 12. **ACTION:** Chris Walker to follow up. **UPDATE:** Walker reported that the workshop occurred. Piaskowski will be sending Walker meeting notes and then he will send out to the group. Burchfield commented that the focus was about flow needs and fish needs for the mainstem and if we have new data that could inform flows. **ACTION:** Walker to send out meeting notes once he receives them from Piaskowski.
- 2.3. **[APR 2016]** Flow update - **ACTION:** Call to happen. Walker to have an MOC out for comments by 10 May for flow change. Teed can provide flow forecasts.
- 2.4. **[Apr 2016]** Outage of Cougar Units - **ACTION:** Walker to follow up with Piaskowski for moving of the PFFC orientation. Make sure it gets added to the next FFDRWG agenda.
- 2.5. **[Apr 2016]** 16BLU02 MOC RO Outage low flows - **ACTION:** Walker to create new MOC for BLU gate repairs.
- 2.6. **[Apr 2016]** 16CGR02 MOC Outplanting Protocol Cougar Fish Facility – **ACTION:** Walker will schedule a special call to discuss.
- 2.7. **[Apr 2016]** 15LOP01 MOC Spillway Gate Repair - **ACTION:** Walker to send out new MOC with updated information.
- 2.8. **[Apr 2016]** Willamette Flow Management and Water Quality - **ACTION:** Walker to set up a call earlier to discuss flow changes for Salem target.

## 1. Updates

### 1.1. HMT Updates

#### 1.1.1. North Santiam.

1.1.1.1. Marion Forks. – Grenbemer reported all is well. Chinook have been ponded. Maintenance changes happening from snow to yard equipment.

1.1.1.2. Minto. – Grenbemer reported Collections are going well. 168 Winter Steelhead and saw first spring Chinook last week. Able to spawn 10 pair of Winter Steelhead surrogates last week. Still down 2 out of 5 pumps but the COE is working on replacing those. All safety issues resolved apart from one cover on a winch. Khan reported that the pit antennas have been installed.

1.1.2. South Santiam. – Couture reported the fish are moving into the trap. 145 season total of Winter Steelhead. Last group of Summer Steelhead smolts went out last week. All safety issues have been addressed.

1.1.3. McKenzie. – Kremers reported fish have all been moved to Leaburg and are doing well. Cogswell Creek project moving forward. Contractor to show up today to continue to get 500ft of line installed for connection. Weather is looking good for progress over next few days. EWEB brought canal back to full pool. Hope to get fish back from Leaburg by next Thursday 5 April. Safety issues resolved.

1.1.4. Middle Fork. – Couture said nothing to report.

1.1.5. Leaburg. – Kremers reported that he hasn't heard of any fish over Leaburg yet.

- 1.2. HGMP updates- Walker reported McKenzie has been submitted, Middle Fork is close to being submitted and North and South Santiam are still being worked on. Spear reported that they are very close on the Santiams; should be end of May.
- 1.3. Research/WFFDRWG (FPT) updates. Khan said nothing new apart from the ladder coordination for FOS. Starting initial planning for FY17.
- 1.4. Water Quality Updates. - Tackley reported that the annual water quality report is out for review. Tackley reported the need to coordinate DET operational temp control prior to 1 June. Tackley said the Grenbemer reported some temp rise in the North Santiam over the last couple of days. Teed reported the spillway at DET was opened briefly over the weekend both Saturday and Sunday and additionally spill occurred at LOP and GPR. BPA had a total generation outage for the Willamette to help balance TDG and spill in the Columbia. Teed reported that this action occurs quickly. Grenbemer commented that they would like a bit of a heads up that flow would be releasing so that they can expect fish in the trap as he was taken by surprise a bit this last weekend. Mullan asked about the 1 June spill date. Tackley said that they've been operating that way for a while and that DET doesn't start to really stratify until the 1<sup>st</sup> of June. The spill 1 June is due to finally having some warmer water to release downstream. Grenbemer asked when the generator at BCL would go back online and Walker reported 12 May.
- 1.5. Flow update. – Teed reported that HCR has been held steady at 1500cfs out and we're drafting more from LOP. HCR will be drawn down early this year. Augmenting for Salem flows coming from LOP. Goal is to target refill for projects. Flows at Salem today are at 18,700. We have geared back on outflow while storm came in. Models indicate that we should be at 15,000cfs 1 May. Dry forecast is coming so we are looking like the river by Salem will draw down some. Inflow will decrease at the reservoirs. The outlook is for an average flow year. Forecasts from RFC have been forecasted for inflow from storm events to come in higher than we realize. Operators are being given flexibility to capture water and not overreact to storms. Tackley commented that we are going to actually wait for storms to come in before making decision on spills or not. We are trying to not waste any water opportunity. CGR is at 1542.6 as of today. Holding steady with 300cfs out. GPR is drafting so FOS can rise to the summer fish study elevation. Plan is to bring FOS 1ft above target elev. Fish study starts 30 April. Khan reported that they have worked out to bring FOS up sooner and then let it drop down so that debris can spill so that when summer hits there will be less debris for recreational users by Memorial Day. Pool should be up by 29 April and the study will be on 30 April. DET is 4% below rule curve and will continue to reduce until we can get to our 1 June reduced flow of 1200cfs (1500cfs now). Mullan commented that she isn't pro without a compelling reason to reducing the target for Salem. Tackley, Burchfield, Graham-Hudson, Mullan discussed scheduling an earlier than next month Flow management call to discuss possible change in flows. She commented that based on the last April forecast we will be close in terms of filling and meeting flows. Teed commented that we can look at #'s of snow water that we already know. Flow call to happen 4 May in the afternoon.  
**ACTION:** Call to happen. Walker to have an MOC out for comments by 10 May for flow change. Teed can provide flow forecasts.
- 1.6. Pinniped Update. (ODFW) – Graham-Hudson reported 31 California Sea Lions below the falls. No lethal removal at falls yet. The State is in the third year of a monitoring study to get a handle.
- 1.7. BPA updates. – No updates
- 1.8. Outage of Cougar Units. **ACTION:** Walker to follow up with Piaskowski for moving of the PFFC orientation. Make sure it gets added to the next FFDRWG agenda. **UPDATE:** Teed reported generating with a single unit now which is providing attraction water for adult facility. Dalgliesh reported PFFC in place and fishing now.

## 2. Coordination/Notification forms (need concurrence/discussion)

- 2.1. 16BCL01 MFR minimum flow – going below BiOp minimums which was human error. Should have been 1500 and went to 1320.
- 2.2. 16BLU02 MOC RO Outage low flows – Dam safety inspection. Flows will go to 15 to 30 cfs. Richards commented that gate repair work at BLU will be starting 15 Sept - 15 Nov. Richards to send information to Walker so that he can create an MOC. **ACTION:** Walker to create new MOC for BLU gate repairs.
- 2.3. 16BLU03 MFR ramp rate - human error, looking into why.
- 2.4. 16CGR02 MOC Outplanting Protocol Cougar Fish Facility – discussing recycle rates. Last year all fish were recycled and if they returned they were put above CGR. Prior to last year everything that returned prior to Sept 1 was put above and then after 1 Sept they were recycled. Kruzic commented that a critical piece of info is what the replacement rates were for the new years. 10-20% replacement rate. New grim productivity data that needs to be factored into the decision. Walker commented that we don't really see replacement rates getting better. He asked how many fish put above is too many. Traylor asked why we're putting any fish above at all if virtually any loss is too much and 10-20% replacement rate isn't acceptable and aren't we trying to improve local adaptation. Burchfield said that yes we are trying to improve local adaptation and that we're trying to get the F1's back. Traylor said we should try and improve the local adaption by putting fish up above or just not do it at all. Ziller commented that we really don't need to put fish up above if we're going to be losing the bulk of what comes back out and we still have plenty of hatchery fish to put up there. He said that he's not sure that we want F1 generation fish mixing with wild population below so they need to be moved upstream but we need to make sure that we have the right ones without mining the wild fish. We aren't putting salmon up above to feed the Bulltrout. Burchfield asked about double floy-tagged fish and pre-spawn mortality. Walker commented that pre-spawn mortality has been low. Sharpe commented that a selection regime needs to be stable for local adaptation to really occur. Ziller said that we have 4 years of data to show variance of replacement rates. Sharpe commented on pre-spawning mortality above CGR in 2009 was 62% that contributed to low replacement rates (replacement rates are # of fish that we outplant not the # of fish that we show spawned). Walker asked if ODFW would like to proceed with 2015 protocol. Ziller said he's open for conversation but it is difficult to put fish up there. Burchfield would like more conversation about this. She suggested a special conference call. Mackey said we can schedule a call for 11 May. Kruzic agreed that more discussion would be good. **ACTION:** Walker: Comments are due by 11 May and a special call to be scheduled to discuss.
- 2.5. 16COT01 MOC minimum flow – going below minimums at Cottage Grove. Hatfield created a spreadsheet to help track this information. She will share with Walker.
- 2.6. 16DET03 MOC Ladder Outage at Minto – Walker commented that ladder originally to be taken out in April but got rescheduled hopefully for early May. Grenbemer reported that 16 & 17 May are the dates.
- 2.7. 16DEX01 MFR ramp rate – Human error
- 2.8. 16FRN01 flow decrease- Decreased 50 to 30cfs to aid with filling
- 2.9. 15LOP01 MOC Spillway Gate Repair – Walker asked about RM& E impacts. Burchfield asked about the spillway not operating for most of the year. Khan said the pool will be below the spillway crest when it's lowered to do the repairs in July. Khan reported that this won't affect JSATS work due to delay in fish work to the Fall because of funding, NEPA etc. Teed does not recommend a 15 July target date for drawdown but later to caution against not having enough water for temp control. Drawdown will shift to probably 15 September but possibly August. It will drop 20ft below spillway. 867 by 1 September. Khan asked if this was the last year for gate repairs and Tackley said yes. 2 gates only left to repair and are

expected to be finished by October. **ACTION:** Walker to send out new MOC with updated information.

**2.10.** 16WVP02 MOC Willamette mainstem flow target (Salem) – Reduce target

**3. Fish Operations Plan:** WFOP homepage: [http://www.nwd-wc.usace.army.mil/tmt/documents/FPOM/2010/Willamette\\_Coordination/WFOP/](http://www.nwd-wc.usace.army.mil/tmt/documents/FPOM/2010/Willamette_Coordination/WFOP/)

**3.1.** WFOP update/discussion. – Mackey commented that we are incorporating Meyers' suggestion to make WFOP resemble FPOM's format. Hope to have drafts by next WFPOM meeting.

**3.2.** Pending WFOP change forms (several)

**3.3.** Potential WFOP change forms: Upstream fish transport frequency.

**4. Task Group Updates.**

**4.1.** Willamette Flow Management and Water Quality (Walker)

**4.1.1.** Met in April, Water Conservation Planning, MFR 16WVP02, MOC 16CGR03 (future) -

**4.1.2.** May 25, next call, Finalize Water Conservation Plan – **ACTION:** Walker to set up a call earlier to discuss flow changes for Salem target.

**4.2.** Hatchery Management Team (Traylor)

**4.3.** Summer Steelhead (Traylor/Taylor) No team yet

**4.4.** Flow task group/workshop (Piaskowski) – Walker said the first workshop occurred 12 April. **ACTION:** Walker to send out notes.

**5.** Other – regarding ODFW modeling conversation occurred for North Santiam temperatures. ODFW proposed targets. Walker is compiling comments that are due by 9 May from the group. This went out in just an email, not an MOC.

**6.** Richards reported that FCR fish facility out for bid.

**7.** Meeting adjourned @ 10:44

**7.1.** Next meeting 25 May 2016 at NOAA Willamette Room