



Grant County  
**PUBLIC UTILITY DISTRICT**  
*Excellence in Service and Leadership*

## Fall Chinook Work Group

Tuesday, 5 February 2013

Grant PUD Headquarters Building

Ephrata, WA

### Technical members

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Paul Wagner, NMFS  
Jeff Fryer, CRITFC  
Holly Harwood, BPA  
Keith Truscott, CPUD  
Bill Tweit, WDFW  
Marcie Mangold, WDOE  
Russell Langshaw, GCPUD  
Steve Hemstrom, CPUD

Joe Skalicky/Don Anglin, USFWS  
Paul Ward/Bob Rose, YN  
Brett Swift, American Rivers  
Tom Kahler, DPUD  
Paul Hoffarth, WDFW  
John Clark, ADFG  
Todd Pearsons, GCPUD

### Attendees: (\*Denotes Technical member)

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Marcie Mangold, WDOE\*  
Jeff Fryer, CRITFC\* (phone)  
Daniel Diedrich, NMFS (phone)  
Leah Sullivan, Blue Leaf (phone)  
Tracy Hillman, Facilitator

Tom Kahler, DPUD\*  
Paul Hoffarth, WDFW\* (phone)  
John Clark, ADFG\* (phone)  
Mark Timko, Blue Leaf (phone)

### Action Items:

1. **The FCWG will review the draft Hydrodynamics Model report and provide comments to Russell Langshaw and Tracy Hillman by Monday, 5 March 2013.**
2. **Russell Langshaw will work with presenters to coordinate presentations for the Fall Chinook Symposium at the Western Division AFS meeting in Boise.**
3. **Russell Langshaw will conduct retrospective analysis on historical stranding and entrapment work and identify issues for discussion during the next FCWG meeting.**
4. **Russell Langshaw will develop a protocol that will be followed when the USGS flow gage fails.**

# Meeting Minutes

- I. **Welcome and Introductions** – Tracy Hillman welcomed attendees to the meeting. Attendees introduced themselves.
- II. **Agenda Review** – The agenda was reviewed and approved.
- III. **Approval of Meeting Minutes**
  - 8 January Meeting Minutes were reviewed and approved.
- IV. **Review of Action Items** - Action items identified during the January meeting were discussed.
  - Russell Langshaw will provide the draft report on methods for the Hydrodynamic Model to Debbie Williams, who will send it via Box.net. **Complete**
  - Russell Langshaw will provide a write up on changing the date of initiation of spawning to Tracy Hillman. Tracy will then send it to the HRWG technical representatives. Representatives will submit their vote on the date change by Friday, 11 January 2013. **Complete – The revised date of initiation of spawning (24 October 2012) was approved.**
  - Russell Langshaw will conduct retrospective analysis on historical stranding and entrapment work and identify issues for discussion during the January FCWG meeting. **Ongoing**
  - Russell Langshaw will develop a protocol that will be followed when the USGS flow gage fails. **Ongoing**
- V. **Phase I Study Updates**
  - A. **Productivity Assessment** – The final productivity report is complete and has been posted to Box.net.
  - B. **Egg to Fry Survival** – The final egg-to-fry study report is complete and has been posted to Box.net.
  - C. **Dam Passage Fallback** – The final dam passage fallback report is complete and has been posted to Box.net.
  - D. **Production Simulation Model** – There was no new information on the Production Simulation Model.
  - E. **Hydrodynamic Model** – Debbie Williams posted the hydrodynamics model draft report (draft of methods and a catalogue of what is available) to Box.net. The FCWG has 30 days to review the draft report. Comments are due to Tracy Hillman and Russell Langshaw by Monday, 5 March 2013.
- VI. **Phase II Study Plan**
  - Phase II Draft Study Plan** – Blue Leaf Environmental is compiling available information on fish and bird predation in the Hanford Reach

and Lake Wallula. Leah Sullivan reported that the literature review is about 90% complete. She also noted that they are compiling data, which will be complete by the end of the month. They are on schedule to provide the draft report to the FCWG by 31 March 2013 and the final after a 30-day comment period.

## VII. HRWG Activities

**Update on Protection Flows** – Tracy Hillman said that the protection program is going well. Protection flows for the rearing period are scheduled to start the first week of March. Paul Hoffarth reported that WDFW will begin beach seining for Chinook fry once per week beginning next week. Tracy noted that all temperature and flow data are displayed in the Fixed Site Monitoring – Monthly Summary files on the Grant PUD Water Quality Website (<http://www.gcpud.org/naturalResources/fishWaterWildlife/waterqualityMonitoring.html>). The temperature unit tracking spreadsheet is found under “Fixed Site Monitoring – Monthly Summary.”

- **Update on Stranding and Entrapment Activities** – Tracy Hillman reported that Russell Langshaw addressed the comments he received on the 2012 stranding and entrapment report. The final report was submitted to FERC on 15 January 2013. The final report was also posted on Box.net.

Tracy noted that the Stranding and Entrapment Work Group met after the January FCWG meeting and reviewed the 2013 sampling design and protocols. Paul Hoffarth said that they will use the same design and methods as last year, but will attempt to resample larger entrapments for lethality. In addition, Russell and the Work Group will determine how to determine what percent of the total pre-smolt production was lost because of stranding and entrapment. They will also determine how to place the loss in terms of adult equivalence.

Tracy indicated that Russell has been working on post-stratifying entrapments based on size, and then re-estimating variance. So far, it appears that post-stratification has not substantially reduced the variance or the confidence bounds on the entrapment estimates. Russell will explore other options and report his results to the group next month.

Russell will continue to conduct a retrospective analysis, which includes looking at historic stranding and entrapment sampling to see if there are data gaps. The current analyses have focused on 2007 data. He will provide more results during the next FCWG meeting.

- **Fall Chinook Presentations at the American Fisheries Society Meeting** – Tracy Hillman indicated that Russell Langshaw is organizing the presentations for the Fall Chinook Symposium at the Western Division AFS meeting in Boise. The symposium will cover both Snake River and Hanford Reach fall Chinook. The current

strategy is for Marcie Mangold to give the first presentation, which describes the 401 Certification process and places the Hanford Reach studies in context. Russell will then share results from the various studies, while Ryan Harnish will talk about the productivity study. Paul Hoffarth will discuss the stranding and entrapment studies and Jeff Fryer will describe results from his tagging studies. Russell will contact each presenter to help coordinate the presentations. Abstracts for the symposium are due on 14 February 2013. The meeting is on 16-18 April 2013.

**VIII. Hanford NRDA**

Daniel Diedrich reported that they will be conducting an upwelling study in the Hanford Reach. The study will examine water chemistry, size, intensity, and the spatial and temporal nature of upwelling. Daniel intends to sample within Chinook spawning areas. He will talk with Paul Hoffarth and Russell Langshaw about locations appropriate for upwelling sampling.

**IX. Next Meeting:** Tuesday, 5 March 2013 at Grant PUD in Ephrata, WA.