

# Okanogan River Temporary Adult Weir- 2012 Post-season Review & 2013 planning

Participants: Keith Wolf (**KW**), Bryan Nass (**BN**), Andrea Pearl (**AP**), Teddy Cohen (**TC**), Abraham Best (**AB**), Brenda Schmidt (**BS**), Casey Baldwin (**CB**), Kirk Truscott (**KT**), Chuck Brushwood (**CHB**), Mike Rayton (**MR**), ...Other Parties not in attendance: Joe Peone (**JP**), Pat Phillips (**PP**)

TOPIC	DISCUSSIONS	ASSIGNMENTS
1. Purpose and Goals	KW opened meeting and reiterated both the meeting and Weir projects Purpose and Goals. See attached and additional six bullets from weir tour meeting of July 17, 2012.	KW to incorporate into 2013 Ops Plan and NHC SOW
2. Weir component design and modifications.	Goals and objectives 1.1 of weir project: <ul style="list-style-type: none"> <li>• Assess the feasibility of safe and effective fish capture, handling, release, and by-pass through behavioral assessment</li> <li>• Live capture, live release facility and fish survival is of paramount importance.</li> <li>• Weir used to assess installation</li> </ul>	Ed., BN
3. Trap design and modification	<p>HPA- Where they present at weir?            Connie, Carmen, Denise Beach were all invited and given summarizes.            ABS-pleased with design.            6 or 7 panels breached due to what? Tripods not in place or picket?            3 ½" gab to weir was implemented            Upstream and downstream gate width changed. Possibly the width of the panel.            Can expand trap. This will increase flow and amount of fish into trap.            AP-video observation-Sockeye would go in and out, Chinook would go straight through. Some would exit past the light.            Up closed, down open on previous weir. Omak weir            Focus on attraction, time fish enter and exit for modification.            How to trap and hold? Pull up a few pickets or net and release.            Fish are going to be examined and review for brood or not?</p> <ol style="list-style-type: none"> <li>1) Size</li> <li>2) Attraction flow-</li> </ol> <p>KW-PVC tube, send out or holding pen?            Resolve:            Too short to put in half baffle. Add 2 more 5' sections to lengthen.            MR-trapezoid design.            AB- keep in mind the original placement of trap. Need to draw water flow to weir. Think about pickets toward trap for water flow.            Ed- if more flow, more useful to put more addition structure to force more flow, like wings. Increase perimeter trap, by adding additional head at base or top of trap.            BN- maybe a couple more panels upstream.            Long run importance. 1) remove adipose fish.</p>	Proposed drawings Jan. & Feb. 2013.

	Stock composition flexibility Pilot design	
4. Evaluate if each action/activity of the OP was implemented		
5. Discuss the role of the TOG (Sect. 5, adaptive management), was it used? If so, when, how, and what was the result?	5.2 TOG Consultation used? Bullet 2 TOG Issue 5.5 Bullet 1-KW will check Standard Operating Criteria, Ed will add column	
6. Water temperature, operations, & Logistics. How did the OP work in this regard? Is there justification for modification in 2013?	High water year Language of permits-don't have hard points in permits. Provide flexibility yet stay with-in boundaries. Assurance of WDFW. Guides we are comfortable with biologically. <ul style="list-style-type: none"> <li>• Impact on resource (protect)</li> <li>• Handling temperatures-OK higher temp. given type of safety protocols</li> </ul> Def. of "handling": unimpeded passage because this is a handling effect. Unimpeded passage adequate opportunity to pass. Unimpeded passage needs to include time. Have WDFW define unabated trapping. And justify this in permitting. Grating Sandbags needed, clip down grating. Make sure fish don't get under.	Find Language to assure WDFW and yet get weir in when needed. MR & PP provide procedures of handling fish.
7. Fish guidance & bypass effectiveness results, and related evaluations.	Lengthen trap w/2 more 5' sections Increase flow through structure development Mid point baffle? Screen or pickets?	
8. Fish passage – timing, species	Every Sunday rest for fish. (culturally) Focus on Chinook Extent Chinook or Sockeye drop back	C-WDFW Radio weir with Ryan
9. Weir effects – RM&E results. Includes results and evaluation of delay, avoidance, gilling, impingement, scour, sedimentation and pollution.	<ul style="list-style-type: none"> <li>• Gravel bags for grating-future modification</li> <li>• Late season trap</li> <li>• Take allocation of steelhead at weir for future past 2013</li> <li>• Water velocity conditions around weir were no different than the conditions outside of weir.</li> <li>• Head differential in Operation plan</li> <li>• Good calibrated meters</li> <li>• Merge temperature graph overlay</li> <li>• Malott gauge</li> <li>• Use weir schematic along with behavior of fish at the weir.</li> <li>• Mortality clarification, name of chart, by time chart, pie chart,</li> </ul>	Criteria DO AP-Send out updated data

	<p>mortality downstream (operational manual)</p> <ul style="list-style-type: none"> <li>• Aerial photo background slide for the snorkel surveys, average fish per snorkel survey, add other fish, why no fish 400m from weir?</li> <li>• Overlay temperature and video log</li> </ul>	
<p><b>10. What worked well, what did not, what was changed in-season? Weir components, supporting infrastructure, data sheets, rates of sampling and measurements. Consider modifications for 2013.</b></p>	<p>Trap moved from left to middle.  Ed-Pickets went in well. Difficult to align. Algae up build.  Erosion and head differential below the pickets.  Proposed trapezoid design to increase flow.  Space of pickets 1", 1 ½", 2" or 3"? Question of gilling.  Observation tower  Observations in center  Availability of camera equipment  Camera underneath panels  Under staff-3 more to help install weir  Install gauges  Move weir above rocks/bar  Map out possible weir location  Easier assembly underwater</p>	
<p><b>11. Manager and funding group tours and their observations and input</b></p>	<p>5-6 Tours conducted  Summaries</p>	
<p><b>12. Public Relations review</b></p>	<p>Update FAQ</p>	<p>KW-Update and get new brochure?</p>
<p><b>13. Video Counts- estimate of passage timing species timing and total count</b></p>	<p>Lengthen trap</p>	
<p><b>14. Configuration of trap and weir</b></p>	<p>Sand bag around trap  Selective rails easily pulled, additional panels available on land</p>	
<p><b>15. Boat traffic</b></p>	<p>Not much this year, not too much issue</p>	
<p><b>16. Site conditions – includes safety concerns and related evaluation</b></p>	<p>Add debris clean up on land in permit, poison oak onsite</p>	
<p><b>17. Trap placement including the possibility of adding a second trap</b></p>	<p>Proposition for 2 trap design.  1) Water flow difficulty  2) Focus is Chinook</p>	
<p><b>18. Weir configuration – including a possible "V" configuration</b></p>	<p>Underwater assembly (no bolt)  Zip ties?  trapezoid figure  clear debris along shoreline  add extra panels  substitute shoot for panel for passage</p>	

	plate down further from substrate attraction flow wing wall	
<b>19. Walkway options</b>	<ol style="list-style-type: none"> <li>1. Walkway upstream of pickets</li> <li>2. Walkway downstream of pickets</li> <li>3. Make walkway a dual use</li> <li>4. DFW want to know what is being disturbed</li> <li>5. 2 x 12 will link between</li> <li>6. Moving live fish-pontoon boat, corral, tubes, live box, pvc cut in half water flowing, in tube and integrated with walkway,</li> <li>7. Congestion on walkway</li> </ol>	Ed-Design for walkway and moving fish
<b>20. Skyline options</b>	Use a barge tag lined to side (like screw trap) upstream Use generator to run barge	
<b>21. Observation Tower – options</b>	Option A: Scissor lift w/vegetable oil BN-Fixed structure Elevation to observe upstream/downstream	KW-pricing for scissor lift. Rent or purchase? Tree Stand option
<b>22. Video placement and additional camera's</b>	Night time video Observation scheduling Light up camera's on weir, Over light camera system out of water Shoot that will open for passage and close when needed Camera upstream of trap didson	
<b>23. Algae and weir debris management</b>	Current protocol is working	
<b>24. 2013 Harvest and Broodstocking Plan</b>	Adult Management fish-how many? According to schedule 20/day Protocol/Handle? Zip line or pull system w/boot, Live box Solid bottom to minimize dirt. Minimize handling	PP-One page conceptual How many fish? What size? Survival? Transfer of broodstock? Temperature issue when broodstock
<b>25. Permit matrix and tasking for securing each permit</b>	Add ramp and slope disturbance 100 ft upstream bank Army Corp of Engineers will get involved Permit to attach barge <ol style="list-style-type: none"> <li>1) Amy RCO Contract performance period expired.</li> <li>2) RCO dollars now to get support</li> <li>3) Renewals</li> <li>4) Key concepts and discussions for WDFW to present-revised opt</li> </ol>	CHB-Contact Army Corp of Engineer regarding permit for access and bank improvement. Possible water usage. ED-provide drafts for ramp to CB asap. CHB&BN-Discuss when

	<p>by march APR</p> <p>5) Consulting agencies-WDFW, BIA,</p> <p>6) Jan-Feb sit with WDFW-final draft of Opt late march.</p>	to have Amy pulled in.
<b>26. Plan meeting with DFW to present weir results and discuss future plans, and extending the existing HPA</b>		CHB-Arrange meeting with WDFW, Jan or Feb debriefing of plans.
<b>27. Updates to existing Operations Plan</b>	Mortality scale	
<b>28. 2013 staffing and schedule</b>		AP-
<b>29. 2013 Budget and Contract Management</b>	2013 Budget Categorical exclusion NEPA	KW contract, re: Amy CHB-RCL funding for Amy, Chuck Brushwood
<b>30. All Task Assignments by time, place, manner and person</b>		
<b>31. Scheduling for the Ops plan</b>	Rename Ops Plan to "2013 Operations Plan" Update each year rather than using the continued versions naming convention.	
<b>32. Review Issue statements</b>	Will be attached	
<b>33. Fish Transport and Broodstock</b>	Need Pat and Mike to develop protocols, Keith and Ed will confer with Pat, Mike and CJHP staff on fish transport options and designs	Keith
<b>34.</b>		
<b>35.</b>		