

FINAL MEMORANDUM

To: Wells, Rocky Reach, and Rock Island HCPs Hatchery Committees
Date: March 21, 2013

From: Mike Schiewe, Chair

Cc: Kristi Geris

Re: Final Minutes of the February 20, 2013 HCP Hatchery Committees Meeting

The Wells, Rocky Reach, and Rock Island Hydroelectric Projects Habitat Conservation Plans (HCPs) Hatchery Committees' meeting was held at Chelan PUD headquarters in Wenatchee, Washington, on Wednesday, February 20, 2013, from 9:30 am to 2:45 pm. Attendees are listed in Attachment A to these meeting minutes.

ACTION ITEM SUMMARY

- Chelan PUD will draft a study plan to test Methow spring Chinook broodstock collection at the Rocky Reach Trap (Item I).
 - Bill Gale will provide U.S. Fish and Wildlife Service's (USFWS) Entiat National Fish Hatchery (NFH) and Leavenworth NFH Biological Assessments (BAs) and Biological Opinions (BiOps) to the Hatchery Committees as examples of consultation materials for bull trout (Item II-A).
 - Craig Busack and Bill Gale will provide Kristi Geris with a list of people who should be invited to the discussion on hatchery and genetic management plans (HGMPs) for non-listed programs and the need for bull trout consultations (Item II-A).
 - Kristi Geris will distribute a Doodle Poll for a 1-hour discussion on the status of HGMPs for non-listed programs (Item II-A).
 - Josh Murauskas and Chris Moran will provide a proposal for evaluating release strategies for the Wenatchee Steelhead Program, including a consideration of how the release strategy for steelhead would affect the Chiwawa spring Chinook program, no later than one week prior to the Hatchery Committees March 20, 2013 meeting (Item III-A).
 - Josh Murauskas will distribute to the Hatchery Committees an updated revised draft
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Analytical Framework 5-Year Update with comments received to date that have been incorporated (Item IV-A).

- Josh Murauskas will distribute a Doodle Poll to the Hatchery Committees to schedule a Hatchery Monitoring and Evaluation (M&E) Workgroup meeting to prepare the final revised draft Analytical Framework 5-Year Update for Hatchery Committee review (Item IV-A).
- Greg Mackey will provide the Wells Hatchery Modernization Master Plan to the Hatchery Committees for review, when available (Item V-C).
- Chelan PUD, Douglas PUD, Grant PUD, and the Colville Confederated Tribes (CCT) will meet to discuss proportional responsibilities for funding run-composition sampling at Wells Dam for summer Chinook; and Chelan PUD will provide an update on the discussions at the Hatchery Committees' March 20, 2013 meeting (Item VI-A).
- Keith Wolf will provide Kristi Geris with CCT's Chief Joseph Hatchery (CJH) M&E presentation materials for distribution to the Hatchery Committees (Item VI-B).

STATEMENT OF AGREEMENT DECISION SUMMARY

- No Statements of Agreement (SOA) were approved at this meeting.

AGREEMENTS

- No agreements were discussed at this meeting.

REVIEW ITEMS

- The draft residual steelhead manuscript *Ecologic and demographic costs of releasing non-migratory juvenile hatchery steelhead in the Methow River, Washington* was distributed to the Hatchery Committees on February 19, 2013, for a 60-day review with comments due to Charlie Snow no later than April 22, 2013.

FINALIZED REPORTS

- The Yakama Nation (YN) Expanded Acclimation Plan was finalized and distributed to the Hatchery Committees on January 29, 2013.
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I. Welcome, Agenda Review, Meeting Minutes, and Action Items

Mike Schiewe welcomed the Hatchery Committees and reviewed the agenda. The following revisions were made to the agenda:

- Lynn Hatcher added an update on the Nason Creek Hatchery permit timeline.
- Josh Murauskas added an update on spring Chinook brood collection at the Eastbank Hatchery outfall (EBO).
- Greg Mackey added a Wells summer Chinook HGMP update to the National Marine Fisheries Service (NMFS) HGMP agenda item; and he also added a Hatchery Evaluation Technical Team (HETT) update.
- Kirk Truscott added an update on run-composition sampling at Wells Dam for summer Chinook.

The revised draft January 16, 2013 meeting minutes were reviewed. Kristi Geris said that after the revised minutes were distributed to the Hatchery Committees on February 12, 2013, NMFS provided clarification on two pending items under their discussion on Methow HGMPs and Hatchery Litigation Updates. Geris said that Hatcher clarified that: 1) the draft Mid-Columbia HGMPs currently under review include draft HGMPs for Methow steelhead and Methow spring Chinook programs; and 2) the review period for Methow HGMPs in the Federal Register will be 30 days. Responding to a question from Mackey, Mike Tonseth clarified that during run-composition sampling at Wells Dam, all fish are screened for presence-absence of coded-wire tags. Geris said that she will revise the minutes to reflect this clarification. The Hatchery Committees members present approved the January 16, 2013 meeting minutes, as revised.

Action items from the last Hatchery Committees meeting on January 16, 2013, and follow-up discussions were as follows:

- *Geris will verify with Bill Gale the final revisions to the revised December 12, 2012 Hatchery Committees meeting minutes, regarding edits to a statement that Gale made during Chelan PUD's discussion on Methow spring Chinook production (Item I).* Geris said that she received Gale's approval via email on January 18, 2013, prior to distributing the final meeting minutes to the Hatchery Committees.
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- *The Hatchery M&E working group will provide the revised Analytical Framework 5-Year Update to the Hatchery Committees for review prior to the February 20, 2013 meeting of the Hatchery Committees (Item III-A).*

The updated revised draft Analytical Framework 5-Year Update was redistributed to the Hatchery Committees on January 25, 2013.

- *Craig Busack will provide Geris with the NMFS Production Advisory Committee (PAC) briefing documents on the draft Methow spring Chinook and steelhead HGMPs, for distribution to the Hatchery Committees (Item IV-A).*

Geris said that Busack provided the documents and that they were posted to the ftp site and distributed to the Hatchery Committees on January 22, 2013.

- *Chelan PUD will draft a study plan to test Methow spring Chinook broodstock collection at the Rocky Reach Trap (Item VI-A).*

Murauskas said that Chelan PUD is discussing the logistics of trapping fish at the existing trap, and added that trapping summer Chinook is being considered to test the functionality of the trap. He said that Chelan PUD still plans to provide the Hatchery Committees with a proposal prior to conducting any work.

- *Geris will set up a WebEx meeting for 11:00 am on Monday, January 28, 2013, for the CCT, Chelan PUD, Douglas PUD, and Grant PUD to discuss run-composition sampling at Wells Dam for summer Chinook upstream of Wells Dam (Item VIII-A).*

Geris said that the meeting was scheduled as discussed.

- *Tonseth will provide Geris summer Chinook broodstock collection estimates for discussion during the run-composition sampling WebEx meeting scheduled for January 28, 2013, for distribution to the Hatchery Committees (Item VIII-A).*

Tonseth provided these estimates on January 17, 2013.

II. NMFS

A. HGMP Update (Craig Busack)

Craig Busack updated the Hatchery Committees on several topics, including the timeline for review and current status of Mid-Columbia hatchery programs HGMPs, and the requirements for consultations on non-direct take hatchery programs. Busack began by noting that the draft Okanogan section 10(j) sufficiency letter will be sent for CCT review tomorrow. He said that the Methow spring Chinook and steelhead sufficiency letters are on hold pending resolution of comments received from the YN and USFWS on HGMP

supplemental materials or supporting documents. Once these comments are addressed and differences are resolved, the Methow spring Chinook and steelhead sufficiency letters will be finalized. He indicated that no revisions will be made to the actual HGMP themselves, but that revisions only relate to the supporting documentation that includes new data collected after the HGMPs were originally submitted. Busack reported that the Wenatchee steelhead and Chiwawa spring Chinook draft BiOps are almost complete and will be sent for agency review after National Oceanic and Atmospheric Administration General Council (NOAA GC) legal review. He said that a new draft BiOp for the Nason Creek Hatchery Program will be out in early March 2013, and added that this is only the BiOp—not National Environmental Policy Act (NEPA) documentation. Kirk Truscott asked when a permit for the Nason Creek program will be required; Mike Tonseth responded that a permit will be needed by early May 2013. Busack also noted that the Leavenworth NFH spring Chinook and Entiat NFH spring Chinook draft BiOps are still in final review. He reminded the Hatchery Committees that the NMFS final review process is now taking longer than in the past due to greater scrutiny by the NOAA General Counsel (GC). He said that the Leavenworth spring Chinook and Entiat spring Chinook draft BiOps were originally anticipated to be completed this week; however, they have been delayed by further revisions.

Busack asked Truscott about the status of the Okanogan steelhead HGMP, to which Truscott replied that the CCT are still working on a draft. Busack said that NMFS needs a draft soon to stay on schedule. He also indicated that NMFS needs the draft Mid-Columbia coho HGMP and any revisions completed by March 2013. He also indicated that NMFS is requesting up-to-date information on all non-direct take programs because Permit 1347 (which covers those programs) is about to expire. NMFS is planning to issue a supplemental BiOp rather than issue a new BiOp and is completing the NEPA process again. Nonetheless, Busack said that this would require updating previous information. He said that NMFS already has a summer Chinook HGMP from Grant PUD, but they still need summer and fall Chinook HGMPs from Chelan PUD and Douglas PUD. Mackey asked about the nature of the new information and level of detail that NMFS would be requiring in the HGMPs. Alene Underwood added that Chelan PUD was under the impression that they were not required to submit a full HGMP. Busack replied that the requirement for a full HGMP was

still under internal discussion, and a determination should be reached next week. He added that if a full HGMP is required, NMFS would like them as streamlined as possible.

Mackey asked about the timeline for completing a new HGMP, and asked if the Hatchery Committees' review process could be expedited to facilitate submitting a new HGMP to NMFS as soon as possible. He said he anticipated that the program descriptions would remain largely the same. Mike Schiewe asked if a 30-day review period would suffice; Busack replied that in order to finish the process by October 2013, and if a new NEPA is not required, then receiving the new HGMP within the next few months would be acceptable. Tonseth noted that permit 1347 coverage is primarily for brood collection and release, and he added that brood collection will be complete by mid-September 2013 and juvenile releases will not take place until spring 2014. He said, therefore, that a new permit is not technically needed until April 2014—Busack agreed, but added that he would still like to try to meet the October 2013 deadline.

Lastly, Busack said that he wanted to alert the Hatchery Committees about the need for bull trout consultation requirements associated with the non-direct take HGMP consultations. He explained that if a program needs a section 10 permit from NMFS, Biological Assessments (BAs) also need to be completed and approved by USFWS for bull trout and any other USFWS-listed species. This consultation is typically required to be complete before NMFS issues the section 10 permits. Busack clarified that development of BAs for USFWS-listed species is not NMFS' responsibility, and he recommended that the BAs are developed in coordination with USFWS in order to ensure that the documents meet USFWS' expectations. Busack explained that NMFS wrote a BA for Snake River Fall Chinook because USFWS agreement was needed quickly. He added that NMFS is still revising it to satisfy USFWS expectations. Bill Gale asked why NMFS is responsible for consultations with USFWS. Busack explained that when NMFS completes a section 10 consultation and issues a permit that NMFS becomes the action agency. He explained that for NMFS-listed species, NMFS consults with itself, and for USFWS-listed species, NMFS consults with USFWS. NMFS has no responsibility with respect to USFWS-listed species. Gale said that he can provide USFWS Entiat NFH and Leavenworth NFH BAs and BiOps to the Hatchery Committees as examples of consultation materials for bull trout. Busack suggested setting up a Hatchery Committees conference to further discuss needed input for HGMPs for summer/fall Chinook

non-direct take programs. Gale and Busack agreed to provide Kristi Geris with a list of NMFS and USFWS staff that should be included in the conference call, and Geris will distribute a Doodle Poll to establish a time and date for a 1-hour discussion.

III. Chelan PUD

A. Wenatchee Steelhead Release Strategy (Josh Murauskas)

Josh Murauskas reviewed that, as discussed at the Hatchery Committees' November 14, 2012 meeting, hatchery steelhead smolts released into the Wenatchee River experienced an unprecedented and significant reduction in the combined probability of migration and survival in 2012. Murauskas said that the cause of these poor results will be difficult to discern because of many concurrent changes to program. He noted that the 2012 releases were the first after relocating the program from Turtle Rock to the Chiwawa Facility and after implementation of new release techniques. Murauskas said that based on 2012 steelhead survival results, Chelan PUD is advocating reverting back to the release strategy that was performed prior to 2012. A paper on the release strategy for hatchery-origin steelhead in the Wenatchee River Basin (Attachment B) was distributed to the Hatchery Committees by Kristi Geris on February 19, 2013.

Mike Tonseth noted that the previous release strategy (drop planting in the Wenatchee directly from Turtle Rock) was the only strategy available prior to relocating the program—not because it was preferred. Murauskas added, however, that the previous release strategy was also three times as successful. He also noted that residualism did not appear to be an issue in 2012 because less than one-tenth of a percent of passive integrated transponder (PIT) tags were detected after July 1, 2012, and that committee-approved population estimates of resident *Oncorhynchus mykiss* (*O. mykiss*) are low (e.g., Hillman et al. reports). He also noted that the smaller release groups and delayed releases that result from volitional releases may negate the desired benefits. Tonseth cautioned also that there are several factors that influence these results, such as differences in the behavior of hatchery-by-hatchery (HxH) and wild-by-wild (WxW) hatchery populations. He suggested that a larger sample size is needed prior to making any conclusions. Bill Gale noted that in Figure 5 of Attachment B (i.e., survival of juvenile steelhead under the new release strategy in 2012 by release group [circular vessels]), the non-migrant group migrated at a higher rate than typical; and Tonseth added that the term “non-migrant” needs to be carefully defined. Charlie Snow commented

that hatchery operations can influence migration rates. Kirk Truscott suggested that releases from circular tanks need to be considered separately from releases out of raceways because they are reared differently, and, in 2012, releases from circular tanks were intentionally delayed. Tonseth said that in 2012, the raceway fish survived at a slightly higher rate than those from circular tanks. Mike Schiewe noted that this may be a good opportunity to develop a more rigorous study, and suggested testing different rearing strategies to gather empirical data. Keely Murdoch said that she would be supportive of conducting further testing prior to making a decision, and also recommended testing both HxH and WxW in each test group. Alene Underwood explained that Chelan PUD would like the Hatchery Committees to approve a new release strategy in time for 2013 releases, and Murauskas added that they also do not want the same results as last year. Murauskas also added that bird predation increases by May. He said that a recent query indicated that about 1,555 Wenatchee steelhead PIT tags have been collected from area bird colonies, and added that those are from later releases. Schiewe suggested that Chelan PUD should have a proposal ready for review by the Hatchery Committees' March 20, 2013 meeting, and Tonseth recommended that Chelan PUD consider impacts to the Chiwawa spring Chinook program. Murauskas said that he and Chris Moran will provide a proposal for evaluating release strategies for the Wenatchee Steelhead Program, including a consideration of how the release strategy for steelhead would affect the Chiwawa spring Chinook program, no later than one week prior to the Hatchery Committees' March 20, 2013 meeting.

B. Summer Chinook Brood Collection at the Eastbank Outfall (EBO) (Josh Murauskas)

Josh Murauskas said that Chelan PUD and WDFW are working to complete preparations to utilize the EBO as the primary broodstock source for the Chelan Falls summer Chinook program. Mike Tonseth added that summer Chinook broodstock collection at the EBO will be included in the 2013 Broodstock Protocols for Chelan Falls' broodstock collection. Chris Moran said that Chelan PUD and WDFW were also discussing potentially tagging fish and wiring the outfall to see how many and what type of fish are around the outfall. Murauskas added that the EBO might turn out to be a useful tool for stray management.

IV. Chelan PUD, Douglas PUD, and Grant PUD

A. 5-Year M&E Plan Update Discussion and Review of Draft Plan (Josh Murauskas and Greg Mackey)

Greg Mackey said that the updated revised draft Analytical Framework 5-Year Update was redistributed to the Hatchery Committees on January 25, 2013, with comments due no later than February 14, 2012. Mackey said that he received comments from Tracy Hillman, Andrew Murdoch, and Keely Murdoch. Andrew Murdoch's comments on the draft plan were distributed to the Hatchery Committees on February 15, 2013, and Keely Murdoch's comments on the draft plan were distributed to the Hatchery Committees on February 19, 2013. Josh Murauskas said that all comments received have now been incorporated into the draft plan, and he said that after he incorporates Chelan PUD comments, he plans to redistribute the revised draft plan to the Hatchery Committees for additional review. Mackey suggested scheduling another Hatchery M&E Workgroup meeting to decide on language and edits based on comments received. He added that most of the comments received were clarifications to explanatory text, and that not many significant changes were received.

Mike Tonseth noted that many of the substantial changes (e.g., revisions to the hypotheses) were reconciled during the last Hatchery M&E Workgroup meeting. Mackey said that a glossary and index were incorporated into the revised draft that was distributed on January 25, 2013, and he noted that those items still need to be further populated. Mike Schiewe reminded the Hatchery Committees that the target is to complete this plan by April 2013, prior to contracting for future years. Murauskas confirmed that the draft plan is on schedule to meet that deadline. Mackey said that a revised draft will be available for review prior to the Hatchery Committees' March 20, 2013 meeting, and then final comments and edits can be addressed prior to the Hatchery Committees' April 17, 2013 meeting, when the plan will be up for approval. Murauskas said that he will distribute a Doodle Poll to the Hatchery Committees to schedule a Hatchery M&E Workgroup meeting to prepare the final revised draft Analytical Framework 5-Year Update for Hatchery Committee review.

V. Douglas PUD

A. HETT Update (Greg Mackey)

Greg Mackey reminded the Hatchery Committees that when he was running the Predation, Competition, and Disease (PCD) risk models for Douglas PUD hatchery programs, he encountered problems when hatchery fish are smaller in size than wild fish, which resulted in the program crashing. Mackey said that he is having the code reviewed by a computer programmer to determine what type of effort would be involved to pinpoint the error. Once this information is available, future actions regarding the PCD Risk model can be decided upon.

B. Confidence in Estimation of Broodstock Numbers (Greg Mackey)

Greg Mackey said that he had recently completed exploratory work on broodstock calculations and summarized the work in a PowerPoint presentation on managing risk and expectations in broodstock collection (Attachment C), which was distributed to the Hatchery Committees by Kristi Geris on February 19, 2013. Mackey reviewed the basic broodstock calculation used to determine broodstock needed to produce a target production value. He noted that variability exists for each parameter used to calculate broodstock numbers, and this variability can be incorporated into broodstock calculations. He explained that using a deterministic approach would result in occasionally collecting too few, or too many broodstock, resulting in 10 percent less than the target production value may result in failing to meet mitigation obligations; whereas, broodstock numbers resulting in 10 percent greater than the target production value will likely result in overages. He then presented findings from a modeling exercise that explored the frequency at which a given program may be over or under acceptable bounds of production. Mackey noted that different programs may have a different emphasis on target production values (i.e., some programs may have an emphasis on not being below the lower 10 percent bound, versus others that may have an emphasis on meeting the target production value). He also noted that minimal changes to small programs, such as adding one female to the Twisp River spring Chinook program, could be significant in terms of resulting production values within, or outside, of the plus-or-minus 10-percent range. Mackey concluded that knowledge of these concepts and of the probability of

possible outcomes can allow for more informed and effective management of broodstock collection. Kirk Truscott also recommended being aware that biases exist in brood collected data versus brood spawned data. Keely Murdoch said that the YN adapts their strategies based on data received in order to address variability in the YN's coho program. Mackey noted that a deterministic approach provides a number based on average conditions, while a probabilistic approach provides the number of broodstock needed, but also provides the likelihood of different, unintended outcomes, which managers can use to make better informed decisions. He said that he may develop a white paper on the results, and explore how this can inform future broodstock protocols.

C. Update on Wells Hatchery Modernization (Greg Mackey)

Greg Mackey said that Douglas PUD has been working with HDR Engineering, Inc., on planning for the modernization of the Wells Hatchery facility; and he added that Grant PUD has also been involved. Mackey said that the master plan is nearing completion (due March 2013); the plan will include a review and assessment of current infrastructure. He said that a groundwater well field assessment is also being conducted as part of bioprogramming to evaluate water needs for Wells Hatchery operations. He said that some of the wells may need to be upgraded. Mackey clarified that the facility is not undergoing a full rebuild, but it will be upgraded, as needed. He said that there are three major upgrades planned, including: 1) a new incubation building for anadromous programs (the existing incubation building will be used for the white sturgeon program and resident trout); 2) installation of fiberglass circular tanks for the Twisp and Okanogan steelhead programs; and 3) upgrades to the volunteer channel trap. Mackey said that a spawning facility will be developed that is integrated with the adult trapping and holding facility; however, those details are not yet worked out. Existing infrastructure such as the dirt ponds and Bureau ponds will be retained. He said that the next step will be to begin the design drawings, which he said should take about one year; and once completed, Douglas PUD will go out to bid for construction. He said that construction could potentially take a couple of years, as needed, to schedule around existing programs at the facility. Mackey said that once the Wells Hatchery

Modernization Master Plan is complete, he will provide the plan to the Hatchery Committees for review.

Keely Murdoch asked about the Hatchery Committees' opportunity to comment and approve the plan. Mackey said that all upgrades will meet or exceed current standard WDFW rearing requirements. Mackey said that Douglas PUD did not intend to seek Hatchery Committees' approval because the modifications are not for the purpose of improving program performance, but rather they are upgrading the facility because of aging infrastructure. Bill Gale said that the Hatchery Committees have commented on these types of plans in the past, and he asked Mackey what role he thought, if any, that the Hatchery Committees had in this modernization process. Mackey said that Douglas PUD is already meeting program targets, therefore, upgrades to Wells Hatchery is not a matter for the Hatchery Committees to approve. Gale replied that the Hatchery Committees have a role in how Hatchery mitigation is met—not just when targets are not being met. Schiewe said that once the master plan is complete, it will be available to the Hatchery Committees for review; and the Hatchery Committees' role in approving the plan can be further discussed at that time. Mackey agreed that upon review of the master plan by the Hatchery Committees, Douglas PUD will consider input from the Hatchery Committees. Tonseth said that he just wants to make sure that WDFW has enough time to review any proposed modifications, if needed, and to make sure program obligations will be met.

VI. CCT

A. Run-Composition Sampling at Wells Dam for Summer Chinook (Kirk Truscott)

Kirk Truscott reviewed the need for run-composition sampling for summer Chinook upstream of Wells Dam. He said that based on Josh Murauskas' power analysis that was distributed to the Hatchery Committees on February 5, 2013, a minimum of 38 adults from each group (hatchery and wild) is needed for sex and age analysis. Truscott also recalled that Mike Tonseth calculated that a sample size of roughly 500 fish will be needed for Carlton brood collection efforts. Tonseth said that given these numbers, the only issue that remains is how the sampling effort will be funded. Chelan PUD, Douglas PUD, Grant PUD, and the

CCT agreed to meet to discuss proportional responsibilities for funding run-composition sampling at Wells Dam for summer Chinook. Murauskas said that Chelan PUD will provide an update on the discussions at the Hatchery Committees March 20, 2013 meeting.

B. CJH M&E Presentation (Kirk Truscott/Keith Wolf)

Keith Wolf introduced himself and distributed to the Hatchery Committees a supplemental packet of CJH M&E information (Attachment D) including: 1) a glossary of terms and variables; 2) an overview of the CJH program; 3) highlights from the draft 2013 CJH Implementation Plan (not included in Attachment D); 4) CJH 2013 spring, summer, and fall Chinook production summary (also not included in Attachment D, but previously distributed to the Hatchery Committees on September 14, 2012); and 5) the CJH Annual Program Review (APR) agenda. Wolf said that he will provide Kristi Geris with all CJH presentation materials for distribution to the Hatchery Committees (*Note: Wolf provided the CJH presentation materials to Geris on February 21, 2013, which were distributed to the Hatchery Committees on the same day; the CJH M&E presentation is included in these meeting minutes as Attachment E*).

Wolf presented an overview of the CJH Research, Monitoring, and Evaluation (RM&E) Programs, including a workflow diagram, and program assumptions and principles. Kirk Truscott noted that the CJH program is not a typical hatchery program. He said that instead, the program focuses heavily on meeting natural escapement, percent hatchery origin spawners (pHOS), and proportion of natural influence (PNI) values in the Okanogan Basin. Wolf shared a picture of the Okanogan adult fish weir and said that there are plans to upgrade the weir this year, including modification of the shape of the weir to facilitate more efficient trapping, installation of additional cameras, and an increase in trap size. Wolf said that the weir will be monitored to ensure that impingement does not occur with the new design. He said that a newly installed PIT tag array is located approximately one mile downstream of the weir. Todd Pearsons asked what the purpose of this weir is, and Wolf replied that it is primarily for managing genetics and stock composition. Wolf added that broodstock collected at this weir have a higher likelihood of being Okanogan fish. Truscott

said that the weir also serves an adult management purpose. Truscott said that other collection locations include the purse seine, tangle nets, and Wells Dam. Tonseth noted that CJH may not be a suitable location to collect natural origin brood, and Truscott said that the priority 2013 collection location is the purse seine. He said that if the broodstock quota is not being met by about August, other options will be investigated to collect the balance. Wolf said that the weir would be the last option for broodstock collection.

Wolf reviewed the CJH capture, tagging, and genetics programs. He said that in 2012, the CCT experimented with a new smolt trap that was not very successful. He said that trapping occurred at night, and all species were monitored. Tonseth asked if steelhead parr were PIT tagged, and Wolf replied that they are at the Omak facility; however, they are not PIT tagged at CJH. Tonseth asked if PIT tagging steelhead parr has been considered at CJH, and Wolf replied that it has been considered; however, trapping can only occur up to a certain flow, and there is high flow at CJH. Truscott said that the CCT is not planning to PIT tag steelhead in 2013. Wolf reviewed juvenile sampling objectives and said that the CCT were working on a new statistical approach to run regression analyses for abundance estimates.

To finish his presentation, Wolf reviewed the CJH field offices and acclimation sites. He said that details on tagging are well documented in the APR, and that adult fish management, data management, and other presentations and reports are available online at the CCT website. Lastly, Wolf encouraged Hatchery Committees members to attend the CJH APR in March 2013.

VII. HCP Administration

A. Next Meetings

The next scheduled Hatchery Committees meetings are on March 20, 2013 (Douglas PUD office); April 17, 2013 (Chelan PUD office); and May 15, 2013 (Douglas PUD office).

List of Attachments

Attachment A List of Attendees

Attachment B	Release Strategy for Hatchery-Origin Steelhead in the Wenatchee River Basin
Attachment C	Managing Risk and Expectations in Broodstock Collection Presentation
Attachment D	CJH M&E Supplemental Packet
Attachment E	Chief Joseph Hatchery M&E Presentation

Attachment A
List of Attendees

Name	Organization
Mike Schiewe	Anchor QEA, LLC
Kristi Geris	Anchor QEA, LLC
Josh Murauskas*	Chelan PUD
Alene Underwood*	Chelan PUD
Greg Mackey*	Douglas PUD
Todd Pearsons†	Grant PUD
Keely Murdoch*	Yakama Nation
Kirk Truscott*	Colville Confederated Tribes
Keith Wolf	Colville Confederated Tribes
Lynn Hatcher*†	National Marine Fisheries Service
Craig Busack*††	National Marine Fisheries Service
Bill Gale*	U.S. Fish and Wildlife Service
Mike Tonseth*	Washington Department of Fish and Wildlife
Chris Moran†	Washington Department of Fish and Wildlife
Jayson Wahls	Washington Department of Fish and Wildlife
Charlie Snow	Washington Department of Fish and Wildlife

Notes:

- * Denotes Hatchery Committees member or alternate
 - † Joined by phone
 - †† Joined by phone for the HGMPs Update
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