

## Memorandum

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To: Wells, Rocky Reach, and Rock Island HCP Hatchery Committees, and Priest Rapids Coordinating Committee Hatchery Subcommittee      Date: September 21, 2020

From: Tracy Hillman, HCP Hatchery Committees Chairman and PRCC Hatchery Subcommittee Facilitator

cc: Sarah Montgomery, Anchor QEA, LLC

**Re: Final Minutes of the August 19, 2020, HCP Hatchery Committees and PRCC Hatchery Subcommittee Meetings**

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The Wells, Rocky Reach, and Rock Island Hydroelectric Projects Habitat Conservation Plan Hatchery Committees (HCP-HCs) and Priest Rapids Coordinating Committee Hatchery Subcommittee (PRCC HSC) meetings were held by conference call and web-share on Wednesday, August 19, 2020, from 9:00 a.m. to 10:30 a.m. Attendees are listed in Attachment A to these meeting minutes.

## Action Item Summary

### Joint HCP-HCs and PRCC HSC

- Brett Farman will discuss with Charlene Hurst (National Marine Fisheries Service [NMFS]) and Mike Tonseth the potential use of a multi-population model for estimating proportionate natural influence (PNI) for the Nason and Chiwawa spring Chinook salmon programs (Item I-A). *(Note: this item is ongoing.)*
- Greg Mackey will work with Mike Tonseth to test a modeling approach and prepare a white paper on the method for determining a range for the number of females to be collected for a given broodstock in the upcoming year (Item I-A). *(Note this item is ongoing.)*
- Greg Mackey will prepare a plan for alternative mating strategies based on findings described in his previously distributed literature review (Item I-A). *(Note this item is ongoing.)*
- Mike Tonseth will distribute the analysis showing feasibility of the *Methow Spring Chinook salmon Outplanting plan* based on historic run-size data (Item I-A). *(Note this item is ongoing.)*
- All parties will provide updates on changes to marking and tagging plans due to the impacts of COVID-19 on operations as updates become available (Item I-A). *(Note this item is ongoing.)*
- Kirk Truscott (Colville Confederated Tribes [CCT]) will determine the number of scales that should be collected from spring Chinook at Wells Dam for elemental signature analysis to discern Okanogan River spring Chinook from Methow River spring Chinook (Item I-A). *(Note this item is ongoing.)*
- Mike Tonseth will check with Andrew Murdoch (Washington Department of Fish and Wildlife [WDFW]) on presenting pre-spawn mortality data to the HCP-HCs and PRCC HSC at an upcoming meeting (tentatively planned for fall 2020; Item I-A). *(Note this item is ongoing.)*

- Mike Tonseth will distribute information from Mike Hughes (WDFW) about visual assessments of males vs. females at Tumwater Dam (Item I-A). (Note: Montgomery provided Tonseth's email with this information to the committees following the meeting on August 19, 2020.)
- Todd Pearsons will continue coordinating with Mark Sorel (University of Washington) regarding his work on life cycle models for Wenatchee spring Chinook salmon and invite him to an upcoming meeting (tentatively planned for winter 2020/2021; Item I-A). (Note this item is ongoing.)
- Kirk Truscott will work with CCT staff to develop a model that addresses the probability of encountering natural-origin Okanogan spring Chinook at Wells Dam (Item I-A). (Note this item is ongoing.)
- Kirk Truscott will work with Casey Baldwin (CCT) to prepare a presentation about reintroduction of endemic anadromous fish upstream from Chief Joseph Dam (Item I-A). (Note this item is ongoing and tentatively planned for the October HCP Hatchery Committees meeting.)
- Keely Murdoch and Mike Tonseth will update the retrospective analysis for Wenatchee spring Chinook salmon using estimates of female pre-spawn mortality (Item II-A).
- Sarah Montgomery will update and distribute the document *Discussion Topics for 2020* to prepare for discussions about changes to the broodstock collection protocols for 2021 (Item VIII).

## PRCC HSC

- None

## Decision Summary

- The PRCC HSC approved the *Grant County PUD Hatchery Monitoring and Evaluation Implementation Plan for Spring and Summer Chinook in the Wenatchee Basin and Summer Chinook in the Methow Basin 2021* as follows: the CCT approved (via email) on August 12 and Grant PUD, the Yakama Nation (YN), WDFW, NMFS, and U.S. Fish and Wildlife Service (USFWS) approved during the meeting on August 19, 2020.

## Agreements

- No agreements were approved during today's meeting.

## Review Items

- The *Chelan PUD 2021 Hatchery Monitoring and Evaluation Implementation Plan*, which was provided by Catherine Willard and was distributed to the Rocky Reach and Rock Island HCP Hatchery Committees by Sarah Montgomery on August 19, 2020, is available for a 30-day

review with edits and comments due to Willard by September 18, 2020. (*Note that Chelan PUD has requested comments by September 4, 2020, to facilitate early approval at the September 16, 2020, Hatchery Committees meeting.*)

- The Douglas PUD 2019 Wells Complex M&E Annual Report, which was provided by Greg Mackey and was distributed to the Wells HCP Hatchery Committee by Sarah Montgomery on August 28, 2020, is available for a 30-day review with edits and comments due to Mackey by September 28, 2020.

## Finalized Documents

- The approved plan, *Grant County PUD Hatchery Monitoring and Evaluation Implementation Plan for Spring and Summer Chinook in the Wenatchee Basin and Summer Chinook in the Methow Basin 2021*, was distributed by Sarah Montgomery to the PRCC HSC on September 3, 2020.
- The final report, *Monitoring and Evaluation of the Chelan and Grant PUDs Hatchery Programs 2019 Annual Report* was distributed by Kristi Geris to the Rocky Reach and Rock Island HCP Hatchery Committees and PRCC HSC on September 11, 2020.

## I. Welcome

### A. Review Agenda, Announcements, Approve Past Meeting Minutes, Review Last Meeting Action Items

Tracy Hillman welcomed the HCP-HCs and PRCC HSC to the meeting and read the list of attendees signed into the meeting. The meeting was held via conference call and web-share because of travel and group meeting restrictions resulting from the COVID-19 pandemic. Hillman reviewed the agenda and asked for any additions or changes to the agenda. Catherine Willard added an item for the *Draft Chelan PUD 2021 Hatchery M&E Implementation Plan* and an item for predation at Eastbank Hatchery.

All representatives present approved the agenda with these changes.

The HCP-HCs and PRCC HSC representatives reviewed the revised July 15, 2020, meeting minutes. Minor revisions were resolved in the meeting. The HCP-HCs and PRCC HSC approved the July 15, 2020, meeting minutes, as revised.

Action items from the HCP-HCs and PRCC HSC meeting on July 15, 2020, were reviewed, and follow-up discussions were addressed (*note that italicized text below corresponds to action items from the previous meeting*):

### *Joint HCP-HCs and PRCC HSC*

- *Brett Farman will discuss with Charlene Hurst and Mike Tonseth the potential use of a multi-population model for estimating proportionate natural influence (PNI) for the Nason and Chiwawa spring Chinook salmon programs (Item I-A).*  
Farman said this item is ongoing.
- *Greg Mackey will work with Mike Tonseth to test a modeling approach and prepare a white paper on the method for determining a range for the number of females to be collected for a given broodstock in the upcoming year (Item I-A).*  
Mackey said this item is ongoing.
- *Greg Mackey will prepare a plan for alternative mating strategies based on findings described in his previously distributed literature review (Item I-A).*  
Mackey said this item is ongoing.
- *Mike Tonseth will distribute the analysis showing feasibility of the Methow Spring Chinook salmon Outplanting plan based on historic run-size data (Item I-A).*  
Tonseth said this item is ongoing.
- *All parties will provide updates on changes to marking and tagging plans due to the impacts of COVID-19 on operations as updates become available (Item I-A).*  
This item is ongoing.
- *Kirk Truscott will determine whether scales collected from spring Chinook salmon at Wells Dam for elemental signature analysis can be used to discern Okanogan River spring Chinook salmon from Methow River spring Chinook salmon (Item I-A).*  
This item is ongoing.
- *Mike Tonseth will check with Andrew Murdoch (WDFW) on presenting pre-spawn mortality data to the HCP-HCs and PRCC HSC at an upcoming meeting (tentatively planned for fall 2020) and will discuss with him the potential for using estimates of female pre-spawn mortality to calculate escapement goals (Item I-A).*  
Tonseth said the second part of this item is complete and he will provide those data to Keely Murdoch soon.
- *Mike Tonseth will ask Mike Hughes (WDFW) about visual assessments of males vs. females at Tumwater Dam (Item I-A).*  
Tonseth said he discussed this with Hughes, who pointed him to gender assessment work at Tumwater Dam that was completed from 2004 to 2007 as part of a relative reproductive success study. (Note: Tonseth provided an email update of this discussion to the committees on August 19, 2020, following the meeting.)
- *Todd Pearsons will continue coordinating with Mark Sorel (University of Washington) regarding his work on life cycle models for Wenatchee spring Chinook salmon and invite him to an upcoming meeting (tentatively planned for winter 2020/2021; Item II-A).*

Pearsons said he discussed this with Sorel, and it will be discussed today.

- *Mike Tonseth will discuss collecting extra scales from broodstock at Methow Hatchery with WDFW staff at the facility (Item II-B).*

Tonseth said WDFW staff at Methow Hatchery are collecting additional scales for a potential study by the CCT and this item is complete.

- *Kirk Truscott will work with CCT staff to develop a model that addresses the probability of encountering natural-origin Okanogan spring Chinook salmon at Wells Dam (Item II-B).*  
This item is ongoing.

- *Kirk Truscott will work with Casey Baldwin (CCT) to prepare a presentation about reintroduction of spring Chinook salmon upstream from Chief Joseph Dam (Item II-B).*

Hillman said this item is ongoing and Truscott had communicated to him that Baldwin will likely give this presentation in October.

- *Bill Gale will share with Keely Murdoch the U.S. Fish and Wildlife Service (USFWS) hazard analysis for hatchery work considering COVID-19 (Item II-C).*

Murdoch said she received the hazard analysis and this item is complete.

#### *Joint RI/RR HCP-HC and PRCC HSC*

- *Catherine Willard will discuss the draft Statement of Agreement (SOA), regarding Chelan PUD's Okanogan Sockeye Obligation and Status of the Reintroduction Program, with Kirk Truscott (Item IV-A).*

Willard said this item is complete and will be discussed today.

#### *PRCC HSC*

- None

## II. Joint HCP-HCs and PRCC HSC

### A. Updated Retrospective Analysis of Wenatchee Spring Chinook Salmon Conservation Program Size

Todd Pearsons said he discussed this topic with Mark Sorel and his advisor to get a better understanding of Sorel's model. He said Sorel's model will integrate data from the screw traps in the Wenatchee basin (Chiwawa River, Nason Creek, and White River screw traps) and will model density dependence with regards to migration and survival through adulthood. Pearsons said he was surprised that Sorel's model will be a life cycle model but is not a component of the National Oceanic and Atmospheric Administration's existing life cycle model for spring Chinook. Pearsons said Sorel told him that he intends for the model to be useful for managers and is looking forward to getting input and suggestions from the committees. Pearsons said he will continue following up with Sorel and asked if representatives present have any questions.

Tracy Hillman asked if this item should remain on the agenda or if it should be taken off until further updates are available. Keely Murdoch suggested that it remain on the agenda as a reminder to keep the program sizing discussion moving forward. She said the committees will also need to decide whether to make any decisions about the size of the conservation program with currently available information. Hillman said the committees have been exploring the currently available data that can be added to the existing retrospective model, but Sorel's model presents a different potential decision-making tool. Murdoch agreed and said there were initially two paths forward for this discussion – first, the committees intended to update the retrospective model (and this has been done to the point that it can be, without additional information about pre-spawn mortality or escapement goals); second, the committees intended to use the life cycle model to gain a better understanding of an appropriate size for a conservation hatchery program. She said this second piece has not progressed much. Mike Tonseth agreed and said the purpose of the second path was to use the life cycle model to determine outputs for spawner escapement that could be compared to the retrospective analysis. He said Andrew Murdoch may be working on this at some point, and now Sorel's model presents a third path that could also provide estimates of spawner escapement. Tonseth suggested eventually comparing all three, but for right now, he noted that the retrospective analysis has been advanced as far as possible except for incorporating pre-spawn survival data for females only. He said, in July, the committees discussed revising the retrospective analysis to incorporate the pre-spawn survival data for females. He said with this update, the number of females on spawning grounds would determine whether the seeding goal has been met instead of the number of total fish on spawning grounds. With this in mind, he suggested making this update to the model. Keely Murdoch said she will work on making this update.

Hillman said this item will remain on the agenda so monthly updates can be provided as needed. Tonseth said Andrew Murdoch will present his research on pre-spawn mortality as well, likely in the fall.

## **B. Effect of COVID-19 Pandemic on Monitoring and Evaluation Activities**

Tracy Hillman asked each committee member to provide an update on impacts of the COVID-19 pandemic on monitoring and evaluation activities.

Catherine Willard said Chelan PUD's only update is that the Chelan Falls trap will not be piloted in 2020 because enough brood had already been collected at Wells Fish Hatchery and installing the trap presented a risk due to COVID-19. She said spring Chinook redd surveys are ongoing as of last week using COVID-19 safety protocols.

Greg Mackey said Douglas PUD has no changes to report since the previous meeting.

Matt Cooper said the USFWS has no additional updates. He said field and hatchery activities are continuing with the same protections and checklists that were developed for COVID-19 earlier in the year.

Keely Murdoch said the YN is preparing for Coho collection and spawning efforts. She said YN will staff the effort internally and not hire temporary workers due to COVID-19 risks associated with traveling and housing. Because of the limited crew, she said spawning protocols may differ from previous years; for example, there may be twice weekly spawning efforts instead of weekly. She said the YN is also still working to figure out trapping at Dryden and Tumwater dams and coordination with WDFW. Willard said Chelan PUD owns the trapping facilities and therefore also has staff at those facilities so please coordinate accordingly. Murdoch replied that she will mention this to Cory Kamphaus (YN), who is coordinating the effort.

Katy Shelby said WDFW has no major changes to report from previous meetings. She said staff are adapting to the slightly loosened carpooling restrictions—they are now allowed to carpool using PPE and social distancing. Mike Tonseth added WDFW has released new guidance regarding carpooling and reporting exposures to COVID-19.

Brett Farman reported no changes from the National Oceanic and Atmospheric Administration.

Todd Pearsons said Grant PUD is conducting summer Chinook surveys in the Methow River, and there are no major changes to how that work is being conducted. He said instead of renting a house for staff, staff will be staying individually in hotel rooms to minimize risk. He said broodstock and M&E work for fall Chinook will begin in September. He said there are many staff for this effort, so one protocol being considered is compartmentalizing the crews so that if isolation becomes necessary, only part of the crew would be exposed and need to isolate.

### **III. Wells HCP-HC**

#### **A. Methow Hatchery Spring Chinook Salmon Broodstock**

Greg Mackey provided an update on broodstock collection for the spring Chinook salmon program at Methow Hatchery. He said the Twisp program will be short one female (there are seven and the goal is eight). He said Douglas PUD increased the Methow composite/Methow-Chewuch program accordingly to compensate for the reduction in the Twisp program to make up the overall production, in accordance with the Hatchery Genetic Management Plan (HGMP). He said spawning has been going on for three weeks and is going well so far.

## IV. RI/RR HCP-HCs

### A. Brood Year 2020 Chiwawa Broodstock Collection

Catherine Willard provided an update on the collection of brood year 2020 Chiwawa spring Chinook salmon, which was also distributed via email prior to the meeting. Willard said the target for broodstock collected is 84 adults, and through recaptures at Tumwater Dam and trapping at the Chiwawa Weir, 70 natural-origin returns (NORs) and 18 hatchery-origin returns (HORs) have been collected. She said after reviewing scale analysis results, 3 HOR females and 3 NOR males were removed from the broodstock. She also noted that one female that was recaptured at Tumwater Dam had DNA with a 90% assignment to Leavenworth National Fish Hatchery and was surplused (the sample was accidentally included in the Nason Creek weekly DNA samples). She said HOR fish were also retained as backup. Regarding collection at the Chiwawa Weir, Willard said earlier in the season the weir was operated only during the day between the hours of 6:00 a.m. and 8:00 p.m. to evaluate minimizing the capture of bull trout while collecting spring Chinook salmon brood. However, minimal spring Chinook salmon were being trapped and it was decided to operate the weir on a 24-hour cycle (24 hours up then 24 hours down) consistent with the 2019 broodstock collection protocol Chiwawa weir operating plan. Trapping at the weir was initiated on July 7, and most of the brood has been collected with only 70 bull trout encounters, which is below the permit limit for 2020 (123 bull trout encounters).

Keely Murdoch asked whether the decision to trap for Chiwawa fish at Tumwater Dam to get more NOR fish needs to be revisited now that operating the Chiwawa Weir and encountering bull trout appears to be less of an issue in collecting NOR broodstock? She asked what Willard is thinking the plan for 2021 might be. Willard replied that the 2021 plan can be decided by the committees with consideration that in 2019, the weir was operated earlier in the year and they encountered the full bull trout permit allowance within three days. She said it is not clear whether there was less of an issue with bull trout encounters in 2020 due to trapping later in the season or due to other conditions, but one thought is that bull trout are migrating earlier in the season and are therefore more likely to be encountered. She added that flows in 2020 were too high to trap earlier in the season as well. Murdoch suggested revisiting this topic in the fall when broodstock collection protocols are discussed. She said one goal is to collect broodstock throughout the run, so only operating the weir later in the season may be a concern if the first part of the run is missed due to high flows or trying to avoid bull trout encounters. Willard agreed and said this will be on the agenda in September and available for discussion throughout the fall as broodstock collection protocols are developed.

## B. Hatchery M&E Implementation Plan 2021

Catherine Willard said Chelan PUD's *Hatchery M&E Implementation Plan* for 2021 will be distributed today for review. She said there are few changes in the document—dates have been updated, electrofishing methods have been clarified, and permit requirements for precocial maturation sampling for the summer chinook programs have been added. She said Chelan PUD will ask for approval of this plan at the September committees meeting.

## V. Joint RI/RR HCP-HCs and PRCC HSC

### A. SOAs Regarding Chelan and Grant PUD's Okanagan Sockeye Obligation and Status of Reintroduction Program: Update and Next Steps

Catherine Willard said after further discussions with WDFW and the YN, Chelan PUD and Grant PUD have decided to separate the draft *Statement of Agreement (SOA) Regarding Chelan and Grant PUDs' Okanagan Sockeye Obligation and Status of Reintroduction Program* into two SOAs. She said the first SOA would establish the success of the Okanagan sockeye reintroduction program after a comprehensive review of existing data. She said the second SOA would determine any mitigation for the program moving forward. She said the plan for the comprehensive review is to provide the hatchery committees with documents including annual reports, any reports relevant to the program, and relevant publications. She said pertinent data will be summarized in a white paper that will also be provided to the committees. During the September committees meeting, Willard will review the results in the white paper and initiate a discussion regarding results of the program to date. After this, she said the committees can review the data and draft an SOA, and lastly, determine mitigation for the program in the future.

### B. Predation at Eastbank Hatchery

Catherine Willard said after fish were marked at Eastbank Fish Hatchery in June and July, staff determined that there had been a more significant issue with predation in 2020 than initially thought. She said staff determined there were shortages in the following programs:

- 12,000 fish from the Nason spring Chinook conservation program
- 23,700 fish from the Nason spring Chinook safety-net program
- 15,000 fish from the Chiwawa spring Chinook program

She said hatchery staff thought the shortages were due to avian predation and this was confirmed via video surveillance conducted by a U.S. Department of Agriculture contractor. She said the primary predators have been crows and herons. She said Chelan PUD is addressing this issue by removing some of the crows and herons and covering the raceways with netting to protect fish from further predation. Tracy Hillman asked if the birds are being harassed to reduce predation. Willard said the

predators are being lethally removed according to permits with the U.S. Department of Agriculture. Mike Tonseth asked when the exclusion netting will be in place, and whether staff are expecting similar predation losses in summer Chinook and steelhead ponds. Willard said the netting will be installed by the end of August, and because summer Chinook and steelhead have not been marked yet, shortages in the programs due to predation have not been determined. She said video evidence suggests most of the predation has been on spring Chinook. Tonseth asked if Chelan PUD plans to place netting over all of the ponds at the hatchery, suggesting that the predators may pursue fish from other ponds once the spring Chinook ponds are covered. Willard said the summer Chinook are in a super raceway so it would be more difficult to install netting over those. She said the focus currently is on spring Chinook but covering other raceways will be considered as more information about predation becomes available.

## VI. PRCC HSC

### A. Review Agenda, Announcements, Approve Past Meeting Minutes

The PRCC HSC representatives approved the July 15, 2020, meeting minutes as revised.

### B. Angler Broodstock Collection Fishery and COVID-19 – Alternative Broodstock Collection?

Todd Pearsons said the 2020 Broodstock Collection Protocols did not include collection of fish at the off-ladder adult fish trap (OLAFT) at Priest Rapids Dam, with the plan instead to collect broodstock from the Angler Broodstock Collection (ABC) fishery. Pearsons said WDFW and Grant PUD has worked with the Coastal Conservation Association to organize and implement the fishery, and the WDFW, Grant PUD, and Coastal Conservation Association has been working to plan the fishery with appropriate COVID-19 protocols to reduce risk. Despite these planning efforts, he said it is possible that the fishery will be cancelled and Grant PUD will need to collect more of its broodstock from the Priest Rapids volunteer channel, which include more hatchery-origin fish and therefore reduce the proportion of natural-origin brood (pNOB) of the program in 2020. A low pNOB in 2020 would also translate to a low PNI, which would decrease the 5-year average and potentially affect the program's ability to meet PNI targets. Pearsons asked representatives present for their opinions on Grant PUD's options for broodstock collection in 2020.

Mike Tonseth said the impacts from COVID-19 were not anticipated when the Broodstock Collection Protocols were approved, and even 2021 protocols will be uncertain. He said if the ABC fishery does not occur, he also anticipates a dip in PNI. Moving forward to 2021, he said it would be pragmatic to develop a contingency plan, such as collecting broodstock from the OLAFT, especially if the pandemic continues. Pearsons agreed and said it could be written as a tiered approach, such as if by a certain date, if there is a high risk that the ABC fishery does not occur, the program defaults to

collection at the OLAFT. Tonseth said in July 2021, there will be a better sense of which activities will occur so it will be easier to plan broodstock collection as long as the approach is described in the protocols.

Keely Murdoch thanked Pearsons for bringing this up and said that his plan sounds like a good one for 2021. She said the ABC fishery has provided enough natural-origin broodstock so that a dip in PNI in 2020 is not too much of a concern. She agreed that in 2021, a tiered approach to broodstock collection is a good approach. Pearsons said he will write the tiered protocol (of backfilling broodstock collection with fish collected at the OLAFT) into the draft broodstock collection protocols for 2021, and summarized that if the ABC fishery does not occur in 2020, a dip in PNI is probably okay for the program but it would be bad to have two low years of PNI in a row. Tracy Hillman asked when the ABC fishery is scheduled. Pearsons replied October 30, 31, and November 1.

### **C. Grant County PUD Hatchery Monitoring and Evaluation Implementation Plan for Spring and Summer Chinook in the Wenatchee Basin and Summer Chinook in the Methow Basin 2021**

Tracy Hillman said Grant PUD's *Hatchery Monitoring and Evaluation Implementation Plan for Spring and Summer Chinook Salmon in the Wenatchee Basin and Summer Chinook Salmon in the Methow Basin 2021* was available for a 30-day review, with edits and comments due by August 7, 2020. Todd Pearsons said no comments were received so he accepted the redlines from the previous year for the final version. Hillman asked for votes on the plan and noted that Kirk Truscott approved it via email on August 12, 2020. The USFWS, YN, WDFW, NMFS, and Grant PUD representatives approved the plan during the meeting on August 19, 2020.

## **VII. Administrative Items**

### **A. AFS Meeting and September Meeting Schedule**

Tracy Hillman said there is a virtual American Fisheries Society meeting scheduled on September 16, 2020, which may present a conflict with the September HCP-HC and PRCC HSC meeting if representatives wanted to attend the AFS meeting. He asked the representatives present what their preferences were. Todd Pearsons had previously provided input via email that he would be interested in moving the HCP-HC and PRCC HSC meeting. Catherine Willard, Greg Mackey, Matt Cooper, Keely Murdoch, Mike Tonseth, and Brett Farman stated that they prefer to maintain the original meeting date. Hillman also noted that he believes September 16 works for Kirk Truscott who is not present today. No changes were made to the September HCP-HC and PRCC HSC meeting date.

Sarah Montgomery asked Hillman and the representatives present if the September meeting should start at 9 am or 10 am due to school calendars. Murdoch said the 10 am start times during the school year were scheduled to accommodate Wednesday late starts, which are not currently planned during COVID-19. Representatives present agreed to continue with 9 am start times for the meetings until a change is warranted.

## **VIII. Next Meetings**

The next HCP-HCs and PRCC HSC meetings will be Wednesday, September 16, 2020; Wednesday, October 21, 2020; and Wednesday November 18, 2020; held by conference call and web-share until further notice.

## **IX. List of Attachments**

Attachment A List of Attendees

**Attachment A**  
**List of Attendees**

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Name	Organization
Sarah Montgomery	Anchor QEA, LLC
Tracy Hillman	BioAnalysts, Inc.
Scott Hopkins	Chelan PUD
Catherine Willard*	Chelan PUD
Tom Kahler*	Douglas PUD
Greg Mackey*	Douglas PUD
Peter Graft‡	Grant PUD
Deanne Pavlik-Kunkel	Grant PUD
Todd Pearsons‡	Grant PUD
Brett Farman*‡	National Marine Fisheries Service
Matt Cooper**	U.S. Fish and Wildlife Service
Mike Tonseth**	Washington Department of Fish and Wildlife
Katy Shelby	Washington Department of Fish and Wildlife
Keely Murdoch*‡	Yakama Nation

Notes:

\* Denotes HCP-HCs member or alternate

‡ Denotes PRCC HSC member or alternate