

LEWIS RIVER AQUATIC COORDINATION COMMITTEE

Facilitator: ERIK LESKO
503-412-8401
Location: SKYPE MEETING ONLY
Date: June 11, 2020
Time: 9:30 AM – 1:00 PM

Agenda Items

- 9:30 a.m. Welcome
- Review Agenda, ACC 5/14/20 Meeting Notes
 - Comment & Accept Agenda, 5/14/20 Meeting Notes
- 10:00 a.m. Public Comment Opportunity
- 10:15 a.m. ACC Structure and Ground Rules; review and approve
- 10:30 a.m. Discussion of ACC consensus process regarding the In Lieu Strategic, Monitoring, and Bull Trout Fish Passage Plans
- 11:00 a.m. Aquatic Fund Procedures Review; 2020/2021 Funding Cycle
- Discuss design-only projects
 - Announcement and proposal timeline
- 12:00 p.m. Working Lunch**
- 12:15 p.m. Study/Work Product Updates
- Flows/Reservoir Conditions Update
 - ATS Update
 - Fish Passage update
- 12:45 p.m. ➤ Next Meeting's Agenda
➤ Public Comment Opportunity
- Note: all meeting notes and the meeting schedule can be located at:
<https://www.pacificorp.com/energy/hydro/lewis-river/acc-tcc.html>
- 1:00 p.m. **Meeting adjourn**

PLEASE BRING YOUR LUNCH

(503) 813-6614 (US)

English (United States)

(503) 813-5252 [Portland, OR] (US)

English (United States)

(801) 220-5252 [Salt Lake City, UT] (US)

English (United States)

(855) 499-5252 [Toll-Free] (US)

English (United States)

Conference ID: 5803472

**FINAL Meeting Notes
Lewis River License Implementation
Aquatic Coordination Committee (ACC) Meeting
June 11, 2020
Skype Meeting Only**

ACC Representatives Present (18)

Kim McCune, PacifiCorp
Chris Karchesky, PacifiCorp
Erik Lesko, PacifiCorp
Jeremiah Doyle, PacifiCorp
Todd Olson, PacifiCorp
Jim Byrne, Trout Unlimited
Bryce Glaser, WDFW
Peggy Miller, WDFW
Josua Holowatz, WDFW
Aaron Roberts, WDFW
Sam Gibbons, WDFW
JD Jones, USFS
Diane Hopster, USFS
Eli Asher, Cowlitz Indian Tribe
Amanda Froberg, Cowlitz PUD
Tim Romanski, USFWS
Joshua Ashline, NMFS
Steve West, LCFRB

Calendar:

July 9, 2020	ACC Meeting	Skype Meeting
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Assignments from June 11, 2020	Status
Lesko/McCune: Email plateau step hydrographs to the ACC.	Complete – 6/17/20

Assignments from May 14, 2020	Status
Lesko/Karchesky: Plan for monitoring water levels late June or early July relative to stranding. Matt Harding (Northwoods) would like to see stranding issue addressed at Swift and adjust water levels.	Ongoing – currently Swift Reservoir is near full pool
ATS: ACC awaiting recommendation from ATS regarding stocking into Swift reservoir.	Ongoing

Assignments from April 9, 2020	Status
ACC - Discuss if the ACC will consider funding design for Aquatic Fund projects in the future.	Complete – 6/11/20
McCune – Review Lewis River Settlement Agreement; does it prohibit funding design work for aquatic fund project submittals?	Completed – 4/15/20 (email to Utilities only for review)

Parking Lot Items	Status
Waiting for input from the bull trout working group on whether they should be officially recognized as a subgroup of the ACC.	Ongoing

Opening, Review of Agenda and Meeting Notes

Erik Lesko (PacifiCorp) called the meeting to order at 9:34am and reviewed the agenda. Lesko will add a Plateau operations update per WDFW request.

Lesko also reviewed the May 14, 2020 meeting notes to include the WDFW edits and updated the assignments status. The ACC approved the May 14, 2020 meeting notes at 10:08am with all WDFW changes and clarifying edits.

Public Comment

None

Bull Trout Subgroup

Jeremiah Doyle (PacifiCorp) informed the ACC attendees that at the June 8, 2020 bull trout sub group meeting they elected to stay autonomous at this time. Doyle confirmed that the subgroup will make themselves available to the ACC when bull trout matters come up and input is needed.

NOTE: an update was provided by Jeremiah Doyle after the meeting responding to a request from Jim Byrne to clarify whether the referenced LRBTRT meeting was formal and therefore represented a formal decision:

Update from Jeremiah Doyle:

This last LRBTRT meeting on June 8, 2020, was “informal” and mainly to just go over upcoming field work. Whether to remain an autonomous group or an official sub-group of the ACC came up during the call, but since the meeting lacked all regular attendees no vote was taken on the matter. A formal vote will be conducted at the next official LRBTRT meeting.

ACC Structure and Ground Rules; review edits and approve

The ACC attendees approved the revised Structure and Ground Rules (Attachment A). McCune informed all attendees that the TCC approved the document without additional change at their June 10, 2020 meeting. McCune will finalize the document and post to the Lewis River website. Lesko indicated that the ACC may need to update the decision template if improvements are needed once a decision process is completed.

Aquatic Fund Procedures Review: 2020/2021 Funding Cycle

- *Discuss Design-only projects; announcement and proposal timeline*

The ACC attendees discussed if design-only projects are permitted within the settlement agreement. McCune sent an email to the ACC on June 1, 2020 (**Attachment B**) outlining her findings and did not discover specific language that prohibits the funding of design-only projects.

The following ACC Representatives agreed that design-only projects will be considered in the 2020/2021 funding cycle with the caveat that each will be evaluated during the pre and full proposal states for its biological merit.

Cowlitz Indian Tribe	Yes
NMFS	Yes

Forest Service	Yes
Trout Unlimited	Yes
WDFW	Yes
USFWS	Yes
Lower Columbia Fish Recovery Board	Yes
Cowlitz PUD	Yes
PacifiCorp	Yes

The ACC also discussed the possibilities of a moratorium for the 2020/2021 funding cycle to allow time to modify the announcement letter, timeline, evaluation criteria and proposals that caused some delay or confusion during last year’s funding cycle. The ACC agreed that they would prefer not to delay this year’s funding cycle. The Utilities agreed that they would present recommended edits to the ACC by the July ACC meeting, and ask the ACC for prompt and specific input so that the announcement can be made soon after. In addition, PacifiCorp will look for time saving or duplicative steps to streamline the process. The approximate announcement date will be September or October 2020. McCune noted that the timeline is flexible except the March 2021 selection meeting and the April 15, 2021 submittal to the FERC. PacifiCorp may also request input from ACC members that have extensive experience in processing, selecting and funding habitat projects. This input may include formation of a temporary ACC subgroup to develop the draft Aquatic Fund documents including the rating and evaluation templates.

< Break 11:15am >

<Reconvene: 11:25am >

Discussion of ACC Consensus Process regarding the In Lieu Strategic, Monitoring, and Bull Trout Fish Passage Plans

Lesko communicated to the ACC that he wanted the ACC to discuss the time, schedule and the process that the ACC is expected to do in the next 2-3 months to meet the NMFS request for ACC consensus on the 3 action plans. The consensus decision making process is outlined in the Settlement Agreement.

To help inform the discussion Lesko asked that Todd Olson (PacifiCorp) provide an update on the In Lieu process. Olson expressed that a number of comments letters were received and all have been put into a comment matrix to ensure that the Utilities address all comments. The matrix will be part of the consultation record submitted to the FERC, along with copies of the comment letters. Where appropriate, the Utilities have made changes and are still working on making changes to the three action plans (Bull Trout Fish Passage Plan, Monitoring Plan and Strategic Plan). Revisions to Exhibit E are also under consideration. The Utilities remain on target for submittal of the individual hydro project applications to the FERC in early July 2020.

Lesko suggested that in August that the ACC go through the consensus voting process to formally document the ACC input and that would be part of the August ACC notes and could be part of the FERC record. This action would be in keeping with the NMFS requested schedule of a response from the ACC in 2-3 months. August is not a hard and fast date as a decision is not final until FERC issues their order regarding the proposed license amendments.

Eli Asher (Cowlitz Indian Tribe) expressed that the ACC has not seen the documents, don’t know when they will be posted to the website and don’t know when they will be submitted to the FERC. The Tribe has no interest in laying down a commitment to a consensus discussion on this issue as

it's premature and inappropriate. It is the Tribe's opinion that the ACC does not have the information needed to even schedule something like this, the timing is in the hands of the Utilities and the Services. The Tribe will not agree today to any kind of formalized decision making process. Asher expressed that a better time for this discussion is once the ACC has timelines that are ticking. Once submission to the FERC is made it is more appropriate to start talking about review time lines. Olson communicated that August may be a more likely starting point for the discussion given the FERC submittal will not happen until early July.

Bryce Glaser (WDFW) agrees with Asher regarding not agreeing to a timeline just yet. He asked "How does the Utilities plan to describe the Plans in the FERC submittal?" Olson indicated that it will be largely similar to the February submittal (by volume), and the Plans will not be labeled as "draft" or "final". The July submittal will also include a consultation record that identifies all In Lieu ACC meeting updates. Olson noted that for this June meeting update, the Utilities can note in the consultation record that the ACC is waiting to make a consensus decision until the documents were submitted to the FERC.

Glaser clarified that WDFW was not waiting for the Utilities to submit the documents to the FERC but rather what WDFW understood from NMFS at the last meeting is that the ACC is waiting to hear about the Services timeline process and they are expecting/hoping that the ACC engages in the NMFS process to review the documents through a consensus process and provide the Services with the results. The ACC is waiting for the Utilities to tell the ACC when the comments received have been inserted for ACC review then the ACC can begin discussing a timeline.

Olson said he is looking to the Services to help identify when the ACC should begin its review.

Josh Ashline (NMFS) said that the Services have begun the timeline process for general counsel review and he has a meeting tomorrow to discuss finalizing for ACC review in the very near future. Tim Romanski (USFWS) said he agrees that the timeline should be available very soon.

The ACC agreed that there is no need to set a meeting date today until all the timeline information and proposed schedule is in front of them.

Glaser is hearing that PacifiCorp will provide an updated final draft of the documents with the incorporated comments received thus far for a 30-day review period and then the ACC comes together at an ACC meeting for a consensus process discussion and vote as described in our protocols. Olson said the revised Plans to be considered by the ACC will be submitted to FERC and that the FERC will likely have a public comment period.

Glaser communicated that the ACC is supposed to be a recommending body to the Utilities, we have a technical team (ATS) consisting of technical experts to review monitoring programs and plans and the comments received to date have all been independently from the entities but there has been no formal engagement of the ACC process or the technical teams to review the plans.

Olson responded that he is not sure if the ATS would have any different comments than those from parties that already commented. When WDFW has a chance to review how the Utilities responded to the draft application comments and if WDFW has questions, the Utilities can discuss and go through the comments with the ACC or with individual organizations and explain why the Utilities responded in the way they did. Approximately 250 comments were submitted so after the ACC has reviewed the Utilities responses and there are still things specific to the plans that the ACC

thinks there is an opportunity to improve upon, then the Utilities would be open to having those discussions.

Glaser suggested that the Utilities put together some kind of presentation to kick off the consensus discussion that outlines the overall themes of concern that they perceived and how they have been addressed in the new drafts so avoid going through all 250 comments.

Olson indicated that once the timeline schedule comes out from the Services, the Utilities could take such action specific to technical comments and concerns.

There was general consensus that given work load and summer schedules, such a discussion might take place at the September ACC meeting.

The ACC agreed to a consensus kickoff meeting whereby the Utilities and their consultants will present the generalized comments received on the draft applications and identify how comments were addressed. The meeting schedule largely depends on the Services timeline.

If any changes proposed by the ACC and agreed to by the Utilities are made after the FERC submittals, the Utilities could file an amendment to the applications.

Plateau Operations

In response to a question from WDFW regarding interpretation of Lewis River flow Plateau Operations, Plateau operations are described in Section 6.2.2. of the Agreement. Lesko provided Section 6.2.2 of the Settlement Agreement (**Attachment C**) that defines and describes Plateau Operations. Plateau operations include two descriptors 1) Plateau Steps and 2) Plateau Changes.

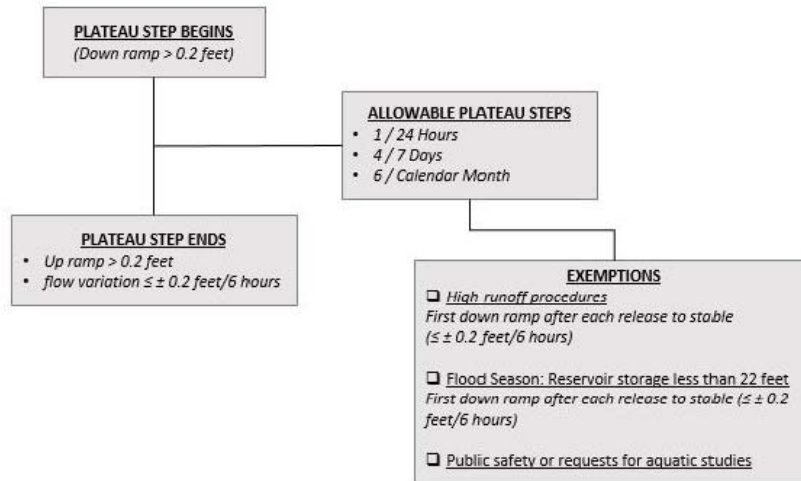
Lesko provided a PowerPoint presentation (**Attachment C**) including definitions, flow charts and hydrographs to help describe and interpret plateau operations on the Lewis River. In developing this presentation, Lesko consulted with both PacifiCorp's water management staff and Hydro's Commtech group that manage an automated and real-time hydro operations data management and collection system. This system is used to also identify and track flow related license requirements. Plateau Operations are intended to restrict daily fluctuations to promote steady discharges during a time of Feb 16th through August 15th when plateau operations are active.

A flow Plateau is defined as a steady flow discharge of ± 0.20 feet (measured at the USGS Ariel Gage) or less for a minimum of 6 hours. A Plateau Step is defined as a down ramp exceeding 0.20 feet. A Plateau Change is an accumulation of Plateau Steps exceeding 1 foot of river gage (when flows exceed 3,500 cfs) or 0.5 foot (when flows are less than 3,500 cfs). If during down ramping flows cross below 3,500 cfs a proportional plateau calculation will be used. For example, if down ramping from 5,000 to 3,500 cfs results in a 6 inch drop in river elevation, a 50 percent flow plateau change will be used. As the river continues to ramp down say another 3 inches after crossing the 3,500 cfs threshold an additional 50 percent flow plateau change will be calculated. These partial plateau portions are added together and would result in 1 full Plateau Change. If the river continues to ramp down, the excess will be added to the next Plateau Change calculation. The number of Plateau Changes are limited to no more than 20 during the period of February 16 through August 15. Plateau Changes are not counted if down ramping is required for public safety or requested for the purpose of aquatic studies.

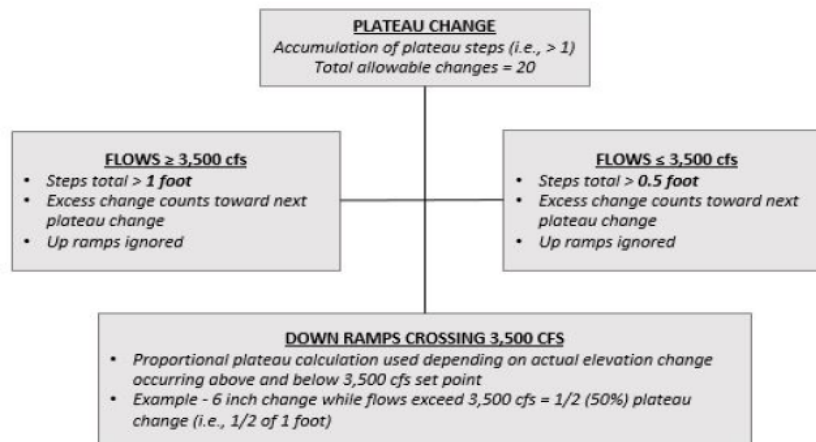
During flood season (November 1 – April 1), if there is less than 5 feet of storage capacity in addition to the required 17 feet of storage capacity (22 feet total) under the high runoff procedure,

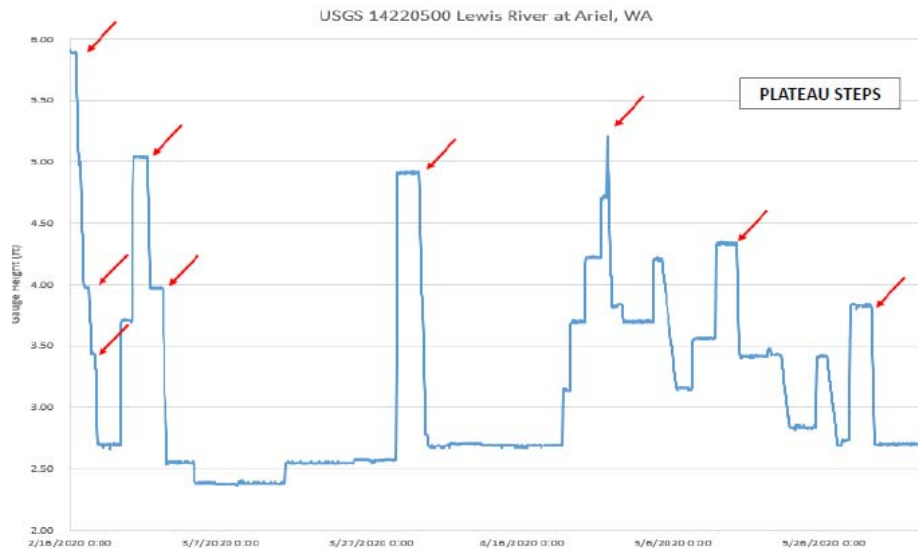
then the first down-Ramping after each flow release to restore the storage capacity shall not count as a Plateau Step. If PacifiCorp uses more than a single release episode to reach or exceed 22 feet of storage capacity, only the down-ramping after the first such release shall not count as a Plateau Step; the subsequent down-rampings shall be counted as Plateau Steps.

PLATEAU STEPS



PLATEAU CHANGE





The hydrograph downstream of Merwin, February 15 to present, identifies where plateau steps have occurred. There have been 10 plateau steps that have occurred this year. Essentially every time flows are ramped down more than 0.2 feet, a plateau step begins. A Plateau Step ends when the river ramps up or stabilizes under the definition for a Flow Plateau (± 0.20 for 6 hours). Therefore, a Plateau Step may be prolonged during normal down ramping operations following the ramping restriction of 2 inches per hour stated in the Agreement.

McCune or Lesko will email the hydrograph slides to the ACC for their review.

Study/Work Product Updates

Flows/Reservoir Update

All reservoirs are very full over the last month as PacifiCorp prepared for recreation season and getting ready for fall flows downstream of Merwin. PacifiCorp targets to be as full as we can by Memorial Day. Yesterday flows bumped up at Merwin about 1,000 cfs and we are waiting to see what rainfall happens over the next few days then we will go back down. Inflow increased to 6,000 cfs Tuesday night so we had to make a flow response to that increase.

H&S/ATS Update

Lesko informed the ACC attendees that we are currently under comprehensive periodic review of the H&S Plan by DJ Warren and Associates. PacifiCorp expects to get that back early next week so this Monday or Tuesday. The plan will be distributed to the ATS for review and discussion at our next ATS meeting on June 25. The Settlement Agreement requires a 60-day review by the ACC. Depending on the number of recommendations and comments from the Comprehensive Periodic Review, we intend to present the plan to the ACC at either the July or August meeting. The reviewers will present their recommendations to the ACC and provide time for any questions. The meeting in which the plan is presented will be considered a kickoff meeting of the 60-day review by the ACC. Once that is complete, the Utilities will incorporate comments and develop a final plan for submittal to the FERC. We anticipate this submittal to occur no later than early November which complies with the FERC submittal date of December 31, 2020.

The ATS is also working on finishing up the 2020 annual operating plan which will provide the framework for the 2021 plan. The schedule is to get the 2021 plan finalized before January 2021.

If interested, all ACC representatives are welcome to attend the June ATS meeting to participate in the review and discussion of H&S Plan recommendations.

Merwin Fish Collection Facility and General Operations ([Attachment D](#))

A total of (1,229) fish were captured at the Merwin Dam Adult Fish Collection Facility (MFCF) during the month of May. The majority of these fish collected were spring Chinook (85.6%), with a smaller proportion being winter steelhead (12.0%).

The MFCF was unexpectedly shut down on Friday, May 22, 2020 due to damage to the automatic fish crowding system. It was required that the fish ladder be turned off and dewatered for repairs to be made. The damage was repaired and the lift and conveyance system was placed back into service on Thursday, May 28, 2020. Modifications to the fish lift and conveyance system are currently being considered to help reduce future unscheduled outages from occurring. PacifiCorp continued to utilize a modified fish transport schedule throughout the month of May. Under this modified schedule, the fish lift and conveyance system operate 7 days per week, with fish sorting and transport taking place weekdays only. This schedule prevents the need to have contracted fisheries staff enter the Merwin adult trap over the weekend, reducing the risk of COVID-19 transmission. Flow below Merwin Dam fluctuated between 2,700 and 5,550 cfs for the month of May (Figure 1).

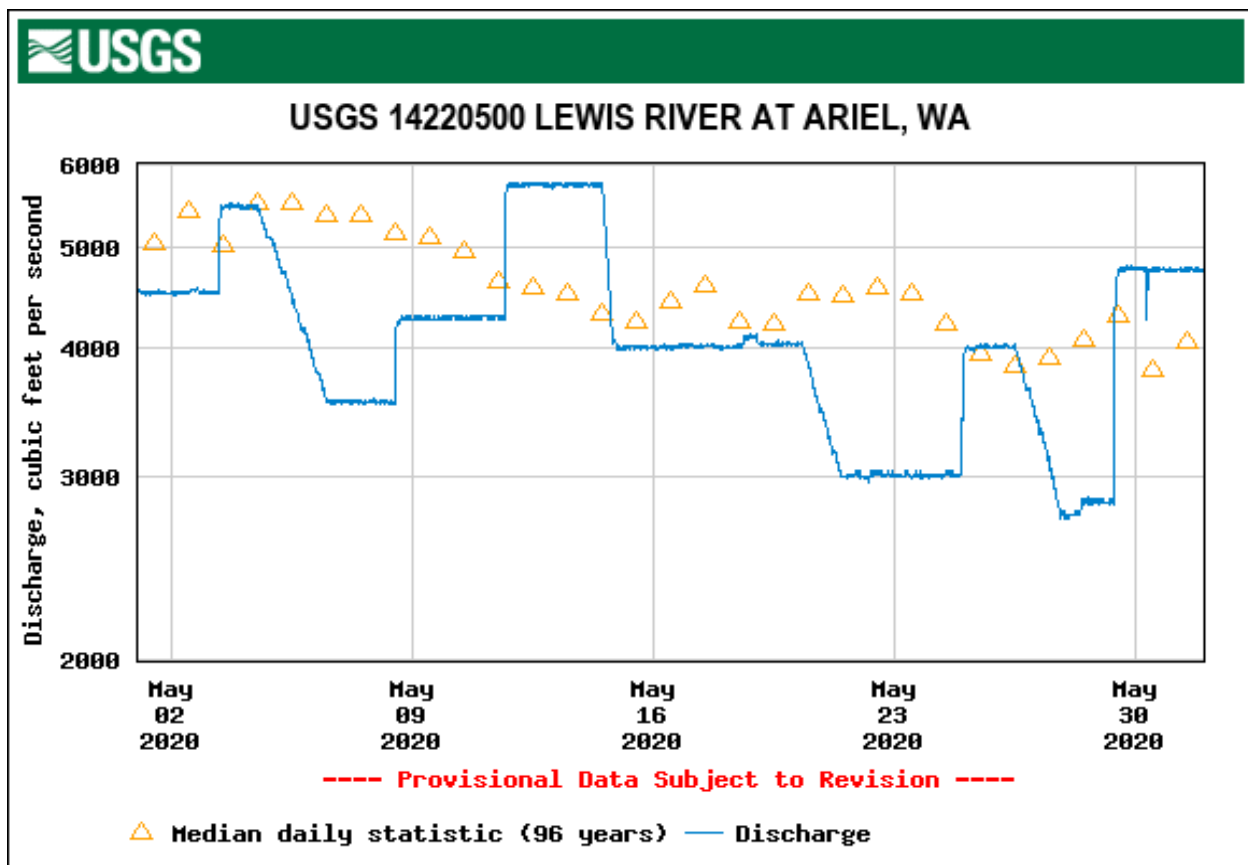


Figure 1. Discharge in cubic feet per second recorded at the USGS Ariel, WA gauge (14220500) located immediately downstream of Merwin Dam.

Upstream Transport ([Attachment D](#))

Three (3) Blank Wire Tag (BWT) winter steelhead were captured by the end of December 2019 and were transported upstream as part of the 2020 run year. An additional 724 BWT's have been collected and transported upstream since January 1, 2020, bringing the 2020 run total for BWTs to 727. In addition to these fish, an additional 470 natural origin (NOR) winter steelhead have been collected at the MFCF, with 306 of these being transported upstream of Swift Dam. The total number of NOR winter collected at the MFCF in 2020 has been the higher than any previous year since the facility was commissioned in 2014 (Figure 2). By the end of May, the total number of winter steelhead (Blank Wire tag and NOR) transported upstream was 1,033 (Table 1). Overall counts of both BWT and NOR winter steelhead continued to taper off during the month of May, as is consistent with previous years. In addition to the steelhead, 358 spring Chinook, twelve cutthroat, and eleven coho have been collected and transported upstream of Swift Dam in 2020.

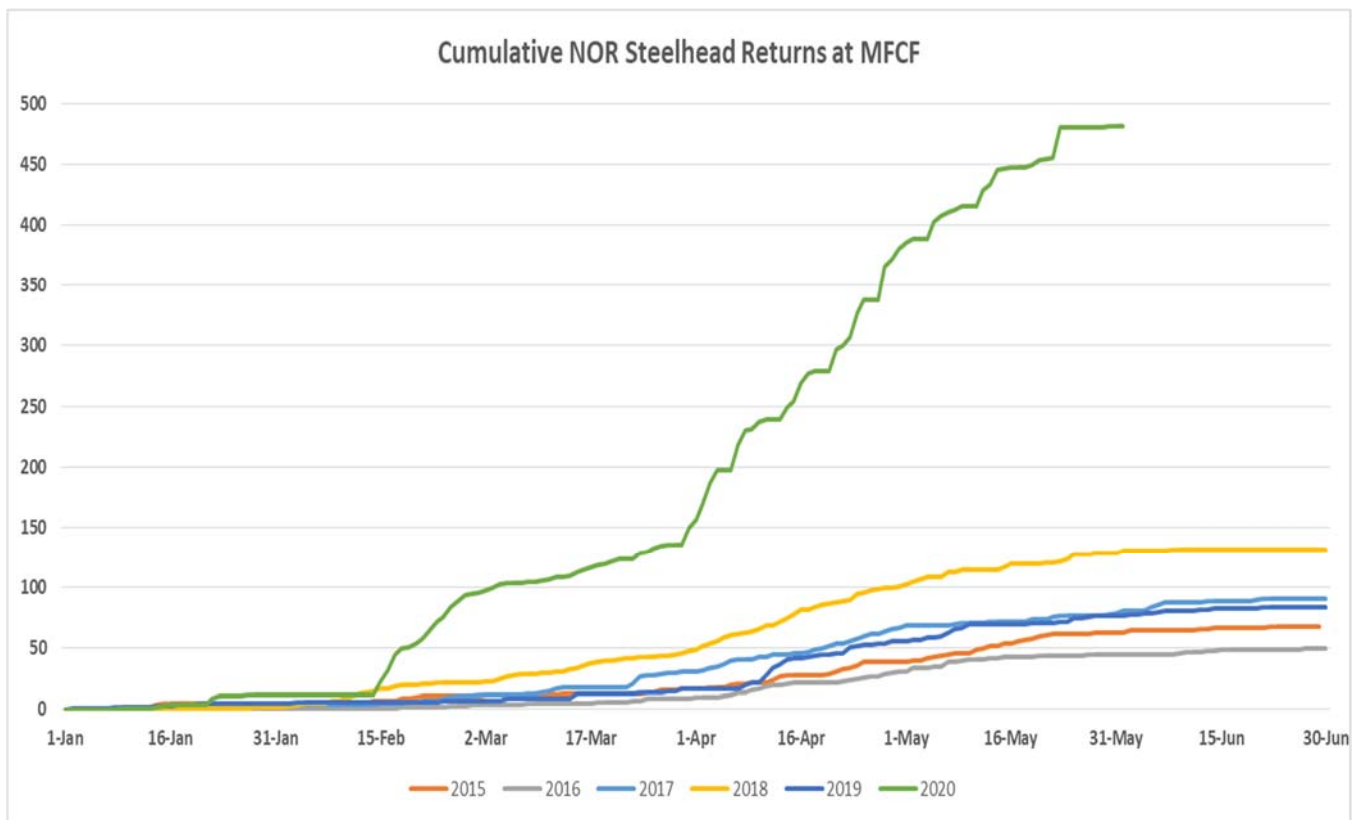


Figure 2. Cumulative number of Natural origin (NOR) steelhead collected at Merwin Adult Fish Collection Facility by year.

Table 1. Total number of adult winter steelhead transported upstream of Swift Dam by run-year.

Run Year	Male	Female	Total adult winter steelhead taken upstream of Swift Dam
2012	141	48	189
2013	440	301	741
2014	452	581	1,033
2015	746	477	1,223
2016	378	376	754
2017	331	261	592
2018	682	535	1,227
2019	527	486	1,013
2020	501	532	1,033

Swift Floating Surface Collector ([Attachment D](#))

The total number of out-migrants collected at the Swift FSC incrementally increased throughout the month of May. The year-to-date collection total for Chinook smolts is higher than any previous year (Figure 3). Coho and steelhead counts remain similar to those seen in 2017 (Table 2).

The ongoing Collection Efficiency study taking place at the Swift FSC will hopefully give insight into fish behavior once fish are inside the fish channel. The information ascertained from this study will provide guidance as to any operational or structural changes that may be needed in order to increase collection efficiency at the FSC. The study is scheduled to be continue into the month of July.

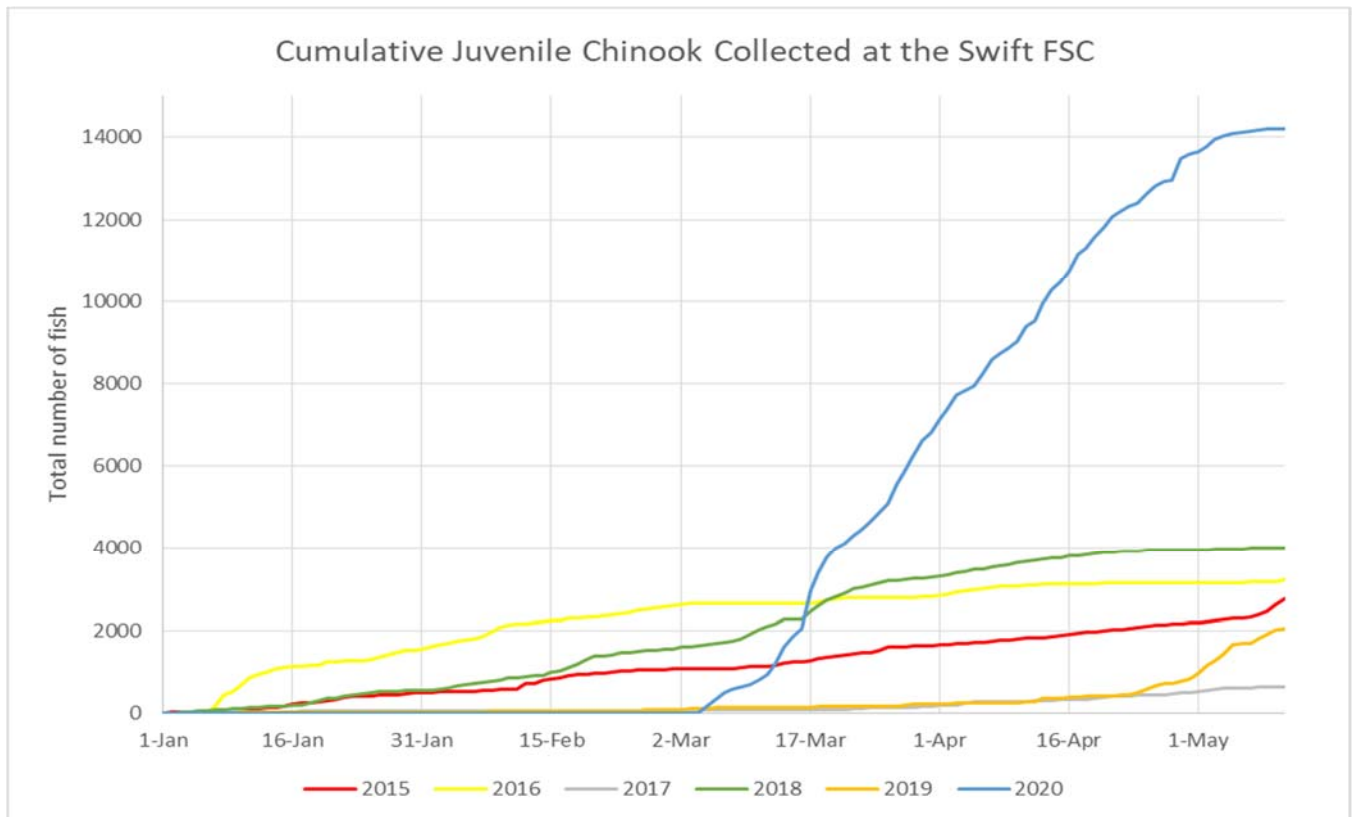


Figure 3. Cumulative number of Chinook smolts collected at the Swift Floating Surface Collector by year.

Run Year	May Collection Numbers by Run Year at Swift FSC				
	Coho	Chinook	Steelhead	Cutthroat	TOTAL
2013	7,358	377	100	264	8,099
2014	2,435	216	311	515	3,477
2015	14,912	1,938	887	333	18,070
2016	23,799	233	1,392	551	25,975
2017	12,963	738	1,565	149	15,415
2018	18,965	190	6,651	329	26,135
2019	55,788	2,753	2,321	473	61,335
2020	11,870	1,104	2,356	245	15,575

Table 2. Total number of outmigrants collected at the Swift Floating Surface Collector during the month of May by year.

It was required that the FSC be turned off on May 8, 2020 due to heavy debris loading and needed repairs to a damaged separation screen. The FSC was returned to service on May 11, 2020.

Floating woody debris at the FSC was particularly heavy during May 2020 due to filling the reservoir and suspending debris that had accumulated along the shoreline over the winter. PacifiCorp is continuing to make adjustments and modifications to better handle and remove debris from the FSC. Modifications intended to improved debris management have included to date: 1) expansion of the fry holding to include a traveling screen to continually remove debris; 2) replacing the original fish conveyance pipes between the separator bars to the fish holding tanks with a larger, more open flume system to reduce debris accumulation and blockage; and, 3) reconfiguring the fish separator bars as to prevent debris impingement and accumulation. Ongoing modifications include a second traveling screen and debris removal system into the adult fish holding tank. In addition to the work within the FSC, PacifiCorp actively manages two static debris booms designed to collect debris within the forebay and in the upper portion of Swift Reservoir before it reaches the FSC. Daily debris removal and reservoir clean-up is ongoing.



Figure 4. Overnight debris accumulation at the entrance of the Swift Reservoir FSC, May 2020.



Figure 5. Debris accumulation within the fish passage channel and on separator bars inside the Swift Reservoir FSC, May 2020.

Karchesky informed the ACC attendees that the number of juvenile Chinook salmon collected in late-fall 2019 and so far in spring 2020, have been the most juvenile Chinook collected at the facility since it has been operating. Combined the collection was upwards 14,000 - 15,000 juvenile spring chinook that come out this year. Coho numbers have not materialized like they did in spring 2019. Karchesky suggest that the cooler, rainier spring may have something to do with it. He also reminded ACC members of the ongoing collection efficiency evaluation that will help to determine any changes in fish behavior between the 2019 and 2020 run years. Karchesky also mentioned the short unscheduled outage that occurred in May due to heavy debris loading. He mentioned that floating debris was more an issue this spring (2020) than any other spring.

Agenda items for July 9, 2020

- Review June 11, 2020 Meeting Notes **(ACC COMMENTS DUE June 29, 2020)**
- Aquatic Fund Procedures Review: 2020/2021 Funding Cycle
- Services In Lieu Timeline (tentative)
- H&S Presentation (tentative)
- Study/Work Product Update

Adjourn 12:55pm

Next Scheduled Meeting:

July 9, 2020
Skype Meeting Only
9:30 a.m. – 12:00 p.m.

Meeting Handouts & Attachments:

- Meeting Notes from 5/14/20
- Agenda from 6/11/20
- **Attachment A**– Final Structure and Ground Rules document and decision making documents, June 10, 2020
- **Attachment B** – Email to the ACC regarding approving design-only aquatic fund projects, June 1, 2020
- **Attachment C** – SA Section 6.2.2, Plateau Operations
- **Attachment D** – Lewis River Fish Passage Report (May 2020)

**Terrestrial and Aquatic Coordination Committees
Structure and Ground Rules
Revised June 2020**

I. Introduction

This document has been established to facilitate the purposes of the Lewis River Terrestrial Coordination Committee (TCC), the Lewis River Aquatics Committee (ACC) and corresponding subcommittees, collectively known as the “Committees”. This document does not supersede language in the Lewis River Settlement Agreement or Federal Energy Regulatory Commission (Commission) Licenses issued June 26, 2008, which govern this process. Both Committees reserve the right to amend or modify this document as necessary and upon approval of the other committee.

II. Purpose

The purpose of the Committees is to coordinate:

- 1) For the TCC, the implementation of terrestrial protection, mitigation, and enhancement (PM&E) Measures described in Section 10 of the Settlement Agreement (Agreement) (including any exhibits, schedules, and appendices related to that Section).
- 2) For the ACC, the implementation of aquatics protection, mitigation, and enhancement (PM&E) Measures described in Sections 3 through 9 of the Agreement (including any exhibits, schedules, and appendices related to that Section). In accordance with Section 14.2.1, of the Settlement Agreement (see **Appendix C**), PacifiCorp and Cowlitz Public Utility District (PUD) have designated Coordinators for the Committees and alternative representatives for membership (see **Appendix A** for a complete list of TCC membership, **Appendix B** for a complete list of ACC membership).
- 3) The Committee Coordinator(s) shall, as their primary responsibilities, oversee the coordination and implementation of the terrestrial and aquatic PM&E Measures that are the responsibility of their respective organizations as provided in the Agreement.
- 4) For purposes of this document, days shall be defined as calendar days.

III. Roles and Responsibilities (Section 14.2.3 of the Agreement, see Appendix C)

Each Committee has the following responsibilities:

- a. Coordinates and Consults on development of plans by the Licensees as provided in the Agreement;
- b. Reviews information and oversees, guides, and makes comments and recommendations by the date agreed to by the Committees on implementation and monitoring of the terrestrial and aquatic PM&E Measures, including plans and reports;

- c. Consults with the Licensees on their respective reports prepared under the Agreement and Licenses regarding implementation of the terrestrial and aquatic PM&E Measures as referred to in Section 14.2.6 of the Agreement, (see Appendix C);
- d. Makes decisions, grants approvals, and undertakes any additional duties and responsibilities expressly given to the Committees with respect to the terrestrial or aquatic PM&E Measures;
- e. Establishes, among other things, (i) procedures and protocols for conducting Committee meetings and deliberations to ensure efficient participation and decision making; (ii) rules for quorum and decision making in the absence of any member; (iii) alternative meeting formats as desired, including phone or teleconference; and (iv) the methods and procedures for updating Committee members on interim progress of development and implementation of the terrestrial and aquatic PM&E Measures;
- f. As deemed necessary and appropriate by either Committee, establishes subcommittees to carry out specified Committee functions and responsibilities described in this Section 14.2.3 of the Agreement (see **Appendix C**), and establishes the size -, membership -, and procedures for any such subcommittees; and
- g. Discusses the protocols and the content of public information releases; provided that each Party, speaking only for itself and not the Committees, retains the right to release information to the public at any time without such discussion.

IV. Comments, Decisions and Recommendations (Section 14.2.4 of the Agreement, see Appendix C)

Each of the Committees shall make comments, recommendations, and decisions in a timely manner as provided below:

- a. Each Party represented on a Committee will have the authority to participate in all Committee discussions relating to, and to provide input and advice on the date agreed to by the Committees; on decisions regarding implementation of the terrestrial and/or aquatic PM&E Measures. If a Representative requests an extension before the agreed upon due date, Licensees will consider accommodating an extension.
- b. The Committees shall strive to operate by Consensus.

“Consensus” means that all Parties participating in a committee or other decision-making group consent to a decision. Consent does not necessarily imply that a Party agrees completely with a particular decision, just that the Party is willing to go along with the decision rather than block the action.

- c. Whether or not the Committees have final authority over decisions on PM&E Measures, the Licensees and other Parties may proceed with actions necessary to implement the Licenses or the Agreement, even though Consensus is not achieved; provided that in such cases where “Consultation” is required, the responsible Licensee or Licensees shall provide copies of Committees comments to the Commission and highlight the areas of disagreement. If this circumstance occurs, and the Licensees do not adopt the

recommendations of a Committee member, then the material filed with the Commission will also include the member's comments along with Licensee's reasons for not adopting the recommendations of a Committee Representative, based on Project specific (see Recital A of Settlement Agreement) information, as identified in the definition of consult or consultation in the Agreement and as follows:

*“Consultation” or “Consult” means that the Licensees shall obtain the views of and attempt to reach Consensus among the specified Parties whenever this Agreement requires the Licensees to Consult with one or more of the Parties. When Consultation is required under this Agreement, the Licensees shall allow a minimum of thirty (30) days for the specified Parties to provide comments prior to filing written plans, reports, or other items with the Commission. If Consensus is not reached, the Licensees shall take action according to the schedule provided in this Agreement or the New Licenses and shall describe to the Commission how the Licensees’ submission accommodates the comments and recommendations of the Parties. If the Licensees do not adopt a recommendation, the filing shall include the Licensees’ reasons for not adopting the Parties’ recommendations, based on Project-specific information. The Licensees shall provide the Commission with a copy of the Parties’ comments. Any Party may seek to resolve such disagreements in accordance with the Alternative Dispute Resolution (ADR) Procedures provided under Section 15.10 of the Agreement (see **Appendix C**). The Parties may submit their own comments to the Commission.*

- d. Where one or more Parties have approval authority under this Agreement, Licensees shall notify the Commission of any approvals that were not obtained, include the relevant comments of the Parties with approval authority, describe the impact of the lack of approval on the schedule for implementation of PM&E Measures, and describe proposed steps to be taken to gain the approval, including dispute resolution.
- e. In no event shall the Committees increase or decrease the monetary, resource, or other commitments made by PacifiCorp and the PUD in the Agreement; override any other limitations set forth in the Agreement; or otherwise require PacifiCorp to modify its three Projects’ facilities without PacifiCorp’s prior written consent or require Cowlitz PUD to modify its Project’s facilities without Cowlitz PUD’s prior written consent, which consent may be withheld at the applicable Licensee’s discretion.
- f. At any juncture where Consultation, discussion or other contact with the Committees is required by the Agreement or Licenses, when requested by the “Services” (National Oceanic and Atmospheric Administration National Marine Fisheries Service and US Fish and Wildlife Service) or as required by the Agreement, the respective Committee Coordinator shall schedule an opportunity to discuss the relevant issue with the respective Committee. This event shall consist of either a conference call, in-person meeting, or other appropriate forum to enable full consideration of the issue.

V. Roles of the Parties

Interested Parties

Interested parties are those people or entities that are interested in Committee activities, but were not Parties to the Agreement (e.g., general public) or are Agreement Parties that have not designated Committee representatives for membership. To the extent desired by an individual or party, they may receive respective Committee information and attend meetings; however they will not be included in the Consensus process or during confidential sessions. Time will be provided at each meeting for public comment as needed and determined by respective Committees (e.g., 15 minutes before lunch break and 15 minutes at conclusion of meeting).

Designated Representatives for Membership

Designated primary and alternate representatives for membership (Representatives), see **Appendices A and B**, are Parties to the Settlement Agreement that have identified (in writing) Representatives to participate in Committee meetings. Representatives, or their designated alternates in the absence of primary Representatives, will have the authority to participate in all respective Committee discussions and to provide input, advice and voting authority on decisions regarding implementation of the terrestrial or aquatic PM&E Measures in the Agreement or Licenses. Representatives are included in the Consensus process. It is expected that TCC Representatives will request to meet in a confidential manner specific to discussions regarding land acquisition interests. Those Representatives wishing to participate in such meetings will be required to sign a Confidentiality Agreement. Since it is unlikely that the ACC will need to conduct confidential discussions, no Confidentiality Agreement has been prepared for ACC Representatives at this time.

Proxy Representation

To provide for absentee representation at Committee meetings, a primary or alternate Representative may designate a proxy Representative via written electronic mail notification to the Licensees' Coordinators. If necessary, written proxy designation may be provided to Signatories external to the entity providing the written proxy designation. Written proxy requests should include the designated proxy Representative, affiliation and duration of the proxy authorization.

Licensees' Coordinators

The Licensees' Coordinator(s) oversee the coordination and implementation of the respective terrestrial and aquatic PM&E Measures that are the responsibility of their respective organizations (PacifiCorp or PUD of Cowlitz County) as provided in the Agreement. The Coordinators may be the Licensees' Representatives if so designated. The Coordinators shall act as full participants in the Committee process and, as appropriate, will take the lead in developing necessary information and preparing formal documents.

Chairperson(s)

Generally, the role of the Chairperson is to lead the meetings effectively and ensure the written structure and ground rules are followed. Responsibilities include opening and closing the

meetings on time, review and modification of the meeting agenda, introducing the purpose and topics on the agenda, introduce guests, ensure participants are provided equal time when discussing issues, ensure that discussion remains relevant, and call for consensus votes when necessary.

Consultants

A Consultant will serve as a source of technical expertise to the appropriate task or assignment. A Consultant will not have the authority to participate as a Committee Representative on behalf of or bind any Party unless the Party specifically delegates that authority (in writing) on specific issues and informs the other Representatives about such delegation.

Facilitator

If deemed necessary by the Licensees or Committees, a facilitator may be utilized during a part or all of the Committee proceedings. The facilitator is an independent third party. The facilitator's role is to help reach Consensus. The facilitator will help the Representatives to identify goals, identify issues, develop and maintain critical paths, accomplish creative problem solving, reach resolution of issues (facilitate and mediate as necessary). The facilitator will also help the Parties to stay organized and keep track of issues, Committee progress, and assignments. The facilitator may assist the development of agendas (for review and input by Representatives) and focus discussions and efforts. If the Committee(s) deems that an outside facilitator is unnecessary at any time, the Licensee(s) Coordinator(s) or any other Representative may assume that role, as determined by the respective Committee.

VI. Ground Rules

The Committee meetings are a process that is subject to the following ground rules. These ground rules are not intended to modify or limit any party's legal rights, authorities, or remedies.

VII. Meetings

The meetings will be open to the public, who may observe and provide comment at the appropriate time. Non-member participants (i.e. interested parties) cannot participate in the determination of Consensus. The Committees may schedule meetings that are not open to the public or interested parties; confidential or otherwise. Consultants and legal representatives of the Parties shall not act as advocates during Committee meetings unless they have been designated as a Representative for a Party.

The Committees will have the respective meeting times:

- 1) The TCC will meet regularly from 9:00am until 3:00pm on the second Wednesday of each month unless determined otherwise by the TCC.
- 2) The ACC will meet regularly from 9:30am until 3:00pm on the second Thursday of each month unless determined otherwise by the ACC.

In general, Representatives of the Committees shall be given a minimum of thirty (30) days' notice

prior to any meeting, unless otherwise agreed to by the Representatives. This does not preclude the Committees from conducting meetings with less notice as needed.

Agendas

Agenda items for the following Committee meeting will be determined by Representatives at the close of each meeting. Agendas will identify when decisions are expected to be made. Representatives may contact the Coordinator(s) at any time to suggest additional agenda items. The agenda for each meeting shall be distributed at least seven (7) days in advance of the meeting date. At the beginning of each meeting, the agenda will be reviewed, edited, and amended as necessary by the Representatives. A public comment period will be included in each meeting agenda as needed. The Coordinators shall arrange and provide a draft agenda for any additional Committee or subcommittee meetings formed by the Coordinator or at the request of any two Representatives on that Committee. The request shall be sent simultaneously to all Representatives of the respective Committee. (See section 14.2.5 of the Agreement, or **Appendix C**).

Meeting Notes

The Coordinators will provide for the preparation, review and distribution of draft meeting notes within seven (7) days following the Committee meeting. Representatives may provide editorial comments directly to the Coordinators by email within ten (10) days prior to the next meeting. Edited meeting notes will be distributed (including attachments) to the Committee with the meeting agenda seven (7) days prior to the next meeting. Substantive comments should be raised during the review of the notes at the next meeting for discussion and resolution, as necessary. Following that meeting, the Coordinators will finalize the meeting notes and distribute to the Representatives. Any changes to meeting notes that were suggested by a Representative, but not accepted by the respective Committee for inclusion, will be appended to meeting notes.

For large attachments (e.g., presentations), a link will be provided in the meeting notes directing reviewers to the attachment on the PacifiCorp website. All attachments are considered part of the meeting notes and subject to review.

Committee Written Record

When a committee has reached Consensus on an action item(s) (See Decision Making below), the decision will be recorded in the notes of the meeting. Meeting notes will be provided to respective committee Representatives for review prior to the following regularly scheduled meeting.

VIII. Responsibilities of Committee Representatives

Attendance

Representatives will make a concerted effort to attend meetings and inform the Coordinators in advance of any absence at a Committee, or subcommittee meeting or any change in representation. If possible, each Representative will have designated one or more alternates who

can represent their organization when needed. A teleconference line will be available at each meeting for Representatives who cannot attend in person. Representatives attending by teleconference, or who have designated a proxy (in writing) are considered present at the meeting, and will be included in the Consensus process with voting authority.

Preparation

Representatives will make a concerted effort to complete action items, come prepared for meetings, and review previously distributed material relating to agenda items. If a Representative is new to the Committee, the Committee should provide a short introduction briefing during the meeting. If a Representative would like the Committee to consider a specific proposal, that Representative will notify the Coordinator(s) to include the item on the agenda, and prepare and provide a “Request for Decision” template (Appendix D) for distribution to the Committee along with meeting notes and agenda at least seven (7) days prior to the meeting in which the proposal will be discussed.

Emergent issues (e.g., trap outages, stream flow variations, FERC submittals, etc.) are not subject to the 10-day preparation protocol and may be presented at the meeting without prior notification.

Participation

Each Representative is expected to be a willing contributor at meetings, to communicate actively, to share all necessary factual information, and to strive for Consensus on a timely basis. Each Representative is expected to be open minded, to listen to others, to respect others’ points of view, to be direct and considerate, to show respect for the other Representatives, to suggest solutions, and to be willing to explain their concerns to others. If a Representative has a personal communication device, they will strive to limit its use in a manner that is least disruptive to meeting participants (i.e. turn it off or to meeting mode during meetings).

Authority

If a Representative does not have authority to bind its organization, the Representative will keep its organization briefed on an on-going basis about the activities of the respective Committee, the issues being addressed, and possible solutions to those issues. The Representative will incorporate the input they have received from their internal discussions into their participation at Committee meetings.

Response Time

Representatives will have at least thirty (30) days unless otherwise agreed to by the Committee Representatives or the period as specified by the Settlement Agreement or Licenses, to review reports, documents, and draft deliverables to be filed with the Commission, so that Representatives can meaningfully participate in the collaborative process. In some instances, additional time will be provided to enable the Representatives’ internal review as agreed to by the Committee Representatives. Specifically, Representatives will have sufficient time for internal review of major policy matters before making decisions on such matters. Future decision points will be noticed in meeting notes.

Brainstorming

To allow open discussion and collaboration, Representatives will be encouraged to “brainstorm” a variety of solutions to specific issues. When a Representative identifies possible solutions as part of this process it is on behalf of the Committee, not their individual organizations, and a Representative will not be held to any brainstorming ideas until such time as they have indicated a willingness to agree with a proposed solution.

Decision Making

Committees will make decisions by Consensus, as defined in the Agreement and Section IV of this document. With respect to assuring that all Representatives have a voice in the Consensus process, the following protocol will be applied:

- 1) Discuss the issue to identify all points of view. Invite everyone to speak.
- 2) The group will decide when there has been enough discussion about a topic and are ready for a decision vote.
- 3) Votes in favor and against shall be tallied from each Representative present, or from Representatives identified through written proxy by absentee Representatives prior to the meeting.
- 4) Those voting in the **minority** get the floor. They’re invited to say whatever they want and convince others of the rights of their view by:
 - Adding to the body of information already presented.
 - Clarifying their position.
 - Point out flaws, errors, or deficiencies in the other’s point of view.
- 5) Continue to ask those in the minority:
 - Do you think you have now been heard by the others in the group?
 - Is there more you want to say?
 - Are you ready to have the entire group vote again?
- 6) Vote again. Those voting in the **minority** again get the floor.
- 7) Invite them again to voice their argument to try and convince others to agree with their point of view.

This process will continue until those in the minority are able to say: “We are clear about what the majority would like to do. While we personally would not make that choice, we do think the others understand what our alternative is. We’ve had sufficient opportunity to persuade others to our point of view, and we do think we have been heard.”

If agreement is not possible, minority parties may pursue Dispute Resolution (see below), or other agreed upon approach.

To account for the absence of a Representative during a decision making process and for which no proxy is provided, decisions will be considered “informal” for a period of seven (7) days, post-decision, unless extended by the Committee. If all Committee Representatives are present or have provided a proxy, the informal period is not needed. The Coordinators will notify absent parties of the “informal” decision via email promptly after the Committee meeting and request a decision response by the end of the seven (7) day period. If a Representative fails to respond within the seven (7) day period, their silence will be considered as no objection to the decision.

Documentation of Committee decisions

Representatives requesting review or decision by the Committee, shall complete the ‘Request for Decision’ template (Appendix D) for distribution to the Committee prior to the meeting as described under ‘*Preparation*’. A completed ‘Request for Decision’ template shall be attached to the meeting notes for the meeting in which the request was considered. Decisions by the Committee shall follow procedures outlined under “Decision Making”.

Not all decisions require a completed template, however, any decisions that may deviate from the Settlement Agreement intent or goals, affect existing recovery, or management goals and actions should require presentation of a completed template to the Committee. The Committee, through consensus decision making, may decide not to act or defer action on any requested action or decision.

Tracking of Committee decisions

The Coordinators will track the progress of the Committees by maintaining an annotated list of issues that identifies specific issues, status of the issues, and resolutions. While a Representative will not be precluded from reopening a resolved issue, the Representatives will make a concerted effort to move forward once decisions have been made and to only request that the group revisits decisions if Representatives wish to discuss information or perspectives not previously shared with the Committee, or if questions arise from implementation of the decision. A record of decisions matrix (Appendix E) shall be maintained to provide a list of decisions made each year by the Committees. This record shall be included in the Licensees ACC/TCC annual report filed with the FERC in April of each year and maintained on the PacifiCorp website.

Dispute Resolution

The Coordinators or facilitator will use a variety of dispute resolution techniques, including mediation, to work through difficult issues and reach Consensus. If necessary, the Representatives may follow the Alternative Dispute Resolution Procedures as defined in Section 15.10.2 of the Agreement (see **Appendix C**).

Caucuses

Time will be allowed at each meeting for caucuses, as necessary.

Information

Representatives will have access to all documents developed during Committee activities. The

Coordinators and all Representatives will distribute or make available via a website (<http://www.pacificorp.com/es/hydro/hl/lr.html#>) or email necessary information on a timely basis to all the Representatives. Some information (most likely from the TCC) will need to be subject to a Confidentiality Agreement. It is the responsibility of a Representative providing confidential information to ask the group to treat it confidentially. All Representatives will honor the Confidentiality Agreement to the limits defined by the law. To the extent that non-confidential data or information is draft, preliminary or otherwise qualified, if Representatives use such data/information outside of the context of meetings or activities, they will appropriately qualify the data/information.

IX. Annual Reports

The Coordinators for the Committees shall prepare and file with the Commission detailed annual reports on Committee activities, monitoring and evaluations, and implementation of the terrestrial and aquatic PM&E Measures occurring during the prior year, as well as plans for the coming year as required in the Agreement. The annual reports may also include, but not be limited to, plans and reports required pursuant to Sections 4.9.1, 7.7.1 8.2.3, 8.2.4, 10.5, 10.8.3 of the Agreement (see **Appendix C**), and any other applicable sections. Copies of such reports will be made available to each Party. The annual reports shall be prepared in Consultation with the Committee Representatives and shall be submitted to the appropriate Committee for review each year, commencing after the Effective Date. Committee Representatives shall have a minimum of thirty (30) days to review and provide comment on a draft report before a final report is prepared and filed with the Commission. The Licensees shall submit the final report to the Commission not later than thirty (30) days after the close of the comment period. To the extent that comments are not incorporated into the final report, an explanation will be provided in writing, and such explanation shall be included in the report.

Appendix A

Representatives and Alternates for Membership on the TCC

TCC Representative	Organization	Alternate
None designated	American Rivers	None Designated
Public Works Director	City of Woodland	None designated
None Designated	Clark County	None Designated
None Designated	Cowlitz County	None Designated
Nathan Reynolds	Cowlitz Indian Tribe	Erik White
None Designated	Cowlitz-Skamania Fire District No. 7	None Designated
None Designated	Fish First	None Designated
None Designated	Lewis River Citizens at-large	None Designated
Mariah Stoll-Smith Reese	Lewis River Community Council	None Designated
Steve Manlow	Lower Columbia River Fish Recovery Board	Steve West
Joshua Ashline	National Marine Fisheries Service	None Designated
None Designated	National Park Service	None Designated
None Designated	North County Emergency Medical	None Designated
Kendel Emmerson	PacifiCorp (PacifiCorp Co-Chair)	Summer Peterman
Amanda Froberg	PUD of Cowlitz County (PUD Co-Chair)	None Designated
Bill Richardson	Rocky Mountain Elk Foundation	Ray Crosswell
None Designated	Skamania County	None Designated
None Designated	The Native Fish Society	None Designated
None Designated	Trout Unlimited	None Designated
None Designated	US Bureau of Land Management	None Designated
Tim Romanski	US Fish & Wildlife Service	None Designated
Neil Chartier	USDA Forest Service	JD Jones
Peggy Miller	Washington Dept. of Fish & Wildlife	Eric Holman
None Designated	Washington Interagency Committee	None Designated
None Designated	Woodland Chamber of Commerce	None Designated
Bill Sharp	Yakama Nation	Joanna Meninick

Appendix B

Representatives and Alternates for Membership on the ACC

ACC Representatives	Organization	Alternate
Jonathan Stumpf	American Rivers	Wendy McDermott
Public Works Director	City of Woodland	To be named
No representative at this time	Clark County	To be named
No representative at this time	Cowlitz County	To be named
Eli Asher	Cowlitz Indian Tribe	Pete Barber
No representative at this time	Cowlitz-Skamania Fire District No. 7	To be named
Jim Malinowski	Fish First	To be named
No representative at this time	Lewis River Citizens at-large	To be named
Mariah Stoll-Smith Reese	Lewis River Community Council	To be named
Steve Manlow	Lower Columbia River Fish Recovery Board	Steve West
Josh Ashline	National Marine Fisheries Service	To be named
No representative at this time	National Park Service	To be named
No representative at this time	North County Emergency Medical	To be named
Erik Lesko	PacifiCorp (PacifiCorp Co-Chair)	To be named
Amanda Froberg	PUD of Cowlitz County (PUD Co-Chair)	To be named
No representative at this time	Rocky Mountain Elk Foundation	To be named
No representative at this time	Skamania County	To be named
Bill Bakke	The Native Fish Society	To be named
Jim Byrne	Trout Unlimited	Brice Crayne
No representative at this time	US Bureau of Land Management	To be named
Tim Romanski	US Fish & Wildlife	Lindsay Wright
Ruth Tracy	USDA Forest Service	To be named
Bryce Glaser	Washington Dept. of Fish & Wildlife	Josua Holowatz (primary alternate) Peggy Miller (secondary alternate) Aaron Roberts (tertiary alternate)
Katie Pruitt	Washington State Recreation and Conservation Office, formerly known as <i>Washington Interagency Committee for Outdoor Recreation</i>	Kaleen Cottingham
No representative at this time	Woodland Chamber of Commerce	To be named
Bill Sharp	Yakama Nation	No be named

Appendix C

Lewis River Hydroelectric Projects Settlement Agreement

14.2.1 Committee Coordinators. Within 30 days after the Effective Date, PacifiCorp and Cowlitz PUD each shall designate one Committee Coordinator for the TCC and one Committee Coordinator for the ACC. PacifiCorp and Cowlitz PUD shall make their designations by notice to the Parties in accordance with the notice provisions in Section 16.6. The PacifiCorp Committee Coordinator(s) shall be employed or retained by PacifiCorp and may represent PacifiCorp on the TCC and the ACC. The Cowlitz Committee Coordinator(s) shall be employed or retained by Cowlitz PUD and may represent Cowlitz PUD on the TCC and the ACC. The PacifiCorp Committee Coordinator(s) shall, as their primary responsibilities, oversee the coordination and implementation of the terrestrial and aquatic PM&E Measures that are the responsibility of PacifiCorp as provided in this Agreement. The Cowlitz PUD Committee Coordinator(s) shall oversee the coordination and implementation of the terrestrial and aquatic PM&E Measures that are the responsibility of Cowlitz PUD as provided in this Agreement. PacifiCorp and Cowlitz PUD Committee Coordinators together shall oversee the coordination and implementation of terrestrial and aquatic PM&E Measures for which PacifiCorp and Cowlitz PUD have joint responsibility as provided in this Agreement.

14.2.3 TCC and ACC Functions. The TCC and the ACC will:

- a. Coordinate and Consult on development of plans by the Licensees as provided in this Agreement;*
- b. Review information and oversee, guide, and make comments and recommendations on implementation and monitoring of the terrestrial and aquatic PM&E Measures, including plans;*
- c. Consult with the Licensees on their respective reports prepared under this Agreement regarding implementation of the terrestrial and aquatic PM&E Measures as referred to in Section 14.2.6 below;*
- d. Make decisions, grant approvals, and undertake any additional duties and responsibilities expressly given to the TCC or the ACC with respect to the terrestrial and aquatic PM&E Measures;*
- e. Establish, among other things, (i) procedures and protocols for conducting committee meetings and deliberations to ensure efficient participation and decision making; (ii) rules for quorum and decision making in the absence of any member; (iii) alternative meeting formats as desired, including phone or teleconference; and (iv) the methods and procedures for updating committee members on interim progress of development and implementation of the terrestrial and aquatic PM&E Measures;*
- f. As deemed necessary and appropriate by the TCC or the ACC, establish subcommittees to carry out specified committee functions and responsibilities described in this Section 14.2.3, and establish the size of, membership of, and procedures for any such subcommittees; and*
- g. Discuss the protocols and the content of public information releases; provided that each Party retains the right to release information to the public at any time without such discussion.*

14.2.4 TCC and ACC Decision-Making Process and Limitations. The TCC and the ACC shall make comments, recommendations, and decisions in a timely manner as provided below:

a. Each Party represented on the TCC and the ACC will have the authority to participate in all committee discussions relating to, and to provide input and advice on, decisions regarding implementation of the terrestrial or aquatic PM&E Measures;

b. The TCC and the ACC shall strive to operate by Consensus. Whether or not the TCC or the ACC has final authority over decisions on terrestrial and aquatic PM&E Measures, the Licensees and other Parties may proceed with actions necessary to implement the New Licenses or this Agreement, even though Consensus is not achieved; provided that in such cases the responsible Licensee or Licensees shall notify the Commission of the comments of the ACC or TCC members and the areas of disagreement. If the TCC or ACC does not reach Consensus, then any member of the TCC or ACC, respectively, may initiate the ADR Procedures as provided in Section 15 below.

c. Where one or more Parties have approval authority under this Agreement, Licensees shall notify the Commission of any approvals that were not obtained, include the relevant comments of the Parties with approval authority, describe the impact of the lack of approval on the schedule for implementation of PM&E Measures, and describe proposed steps to be taken to gain the approval, including dispute resolution.

d. In no event shall the TCC or the ACC increase or decrease the monetary, resource, or other commitments made by PacifiCorp and Cowlitz PUD in this Agreement; override any other limitations set forth in this Agreement; or otherwise require PacifiCorp to modify its three Projects' facilities without PacifiCorp's prior written consent or require Cowlitz PUD to modify its Project's facilities without Cowlitz PUD's prior written consent, which consent may be withheld in the applicable Licensee's discretion.

e. At any juncture where discussion or other contact with the ACC or TCC is required by this Agreement, when requested by the Services or as required by the Agreement, the ACC or TCC Committee Coordinator, respectively, shall schedule an opportunity to discuss the relevant issue with the ACC or TCC. This event shall consist of either a conference call, in-person meeting, or other appropriate forum to enable full consideration of the issue.

14.2.5 TCC and ACC Meetings. Commencing in the first year after the Effective Date and each year thereafter for the terms of the New Licenses, the TCC and ACC Committee Coordinators shall arrange and provide an agenda for an annual meeting of their respective committees. The TCC and ACC Committee Coordinators also shall arrange and provide an agenda for any additional meetings deemed necessary by either coordinator for a committee or at the request of any two Parties on that committee, which request shall be sent simultaneously to all members of that committee. Members of the TCC and the ACC shall be given a minimum of 30 days' notice prior to any meeting, unless otherwise agreed to by the members of the applicable committee.

14.2.6 TCC and ACC Reports. The Committee Coordinators for the TCC and the Committee Coordinators for the ACC shall prepare and file with the Commission detailed annual reports on the TCC and ACC activities, monitoring and evaluations under the M&E Plan, and implementation of the terrestrial and aquatic PM&E Measures occurring during the prior year, as well as plans for the coming year as required in this Agreement. The annual reports may also include plans and reports required pursuant to Sections 4.9.1, 7.7.1, 8.2.3, 8.2.4, 10.5, and 10.8.3. Copies of such reports will be made available to each Party. The annual reports shall be prepared in Consultation with the TCC and ACC committee members and shall be submitted to the committees for review each year, commencing after the Effective Date. Committee members shall have a minimum of 30 days to review and provide comment on a draft report before a final report is prepared and filed with the Commission. The Licensees shall submit the final report

to the Commission not later than 30 days after the close of the ACC and TCC comment periods. To the extent that comments are not incorporated into the final report, an explanation will be provided in writing, and such explanation shall be included in the report.

15.10 Alternative Dispute Resolution

15.10.1 General. The Parties intend that disputes under this Agreement be resolved as expeditiously and informally as possible, and that issues within the scope of the TCC and the ACC be discussed in those committees before being referred to the ADR Procedures. All remaining disputes among the Parties regarding the obligations of the Parties under this Agreement shall, at the request of any Party, be the subject of nonbinding ADR Procedures among the disputing Parties. Each Party shall cooperate in good faith promptly to schedule, attend, and participate in the ADR Procedures. The Parties agree to devote such time, resources, and attention to the ADR Procedures as are needed to attempt to resolve the dispute at the earliest time possible. Each Party shall implement promptly all final agreements reached through the ADR Procedures, consistent with the Party's applicable statutory and regulatory responsibilities. Nothing in Sections 15.10.1 through 15.10.2 is intended or shall be construed to affect or limit the authority of the Commission, the Agencies, or any other agency with jurisdiction over the Projects to resolve a dispute brought before it in accordance with its own authorities and procedures, or to alter the statute of limitations or other requirements for Appeal of any action.

15.10.2 ADR Procedures. A Party claiming a dispute shall give notice of the dispute within 60 days of the Party's actual knowledge of a dispute, event, or omission that gives rise to the dispute, unless this Agreement provides otherwise. If a Party communicates with another Party informally and believes that the dispute is being resolved, the time for notice will not commence until it has been determined that such informal efforts have failed to resolve the dispute. Notification under Section 16.6 shall constitute actual knowledge. At a minimum, in any dispute subject to the ADR Procedures, the Parties shall hold two informal meetings within 30 days after notice, to attempt to resolve the disputed issue or issues. If, within 15 days after the second meeting or any meeting thereafter, a Party notifies the other Parties that such informal meetings failed to resolve the dispute, the Parties may agree to attempt to resolve the dispute using a neutral mediator. The agreement to use a neutral mediator will address allocation of costs and the scope of the dispute. The neutral mediator will be selected by the Parties participating in the mediation. Upon selection, the mediator will mediate the dispute for 60 days. Any of these time periods may be reasonably extended or shortened by agreement of the Parties, or as necessary to conform to the procedure of an agency or court with jurisdiction over the dispute. Unless otherwise agreed among the Parties, each Party shall bear its costs for its own participation in the ADR Procedures. Pending resolution of any dispute under the ADR procedures, and subject to the authority of the Commission or other agency with jurisdiction to order otherwise, PacifiCorp and Cowlitz PUD may continue operating their respective Projects in the manner of their operation prior to the point at which the dispute arose.

15.10.3 Enforcement of Agreement After ADR Procedures. Any Party may seek specific performance of this Agreement by any other Party at the Commission or in a court of competent jurisdiction after compliance with the ADR Procedures, where required, and, to the extent allowed by applicable law, may seek to recover its costs and fees associated with bringing such action. No Party shall be liable in damages for any breach of this Agreement, except that a Party may seek monetary penalties under applicable law. Nothing in Sections 15.10.1 through 15.10.3 is intended or shall be construed to affect or limit the jurisdiction of any agency or court as established under applicable law.

RECITAL A

“Project” and “Projects” - The Lewis River Hydroelectric Projects consist of the Merwin Project (Project No. 935), Yale Project (Project No. 2071), Swift No. 2 Project (Project No. 2213), and Swift No. 1 Project (Project No. 2111) (each individually referred to as a “Project” and collectively as the “Projects”) and associated powerhouses, transmission facilities, recreational facilities, hatcheries, reservoirs, canals, and lands within the Projects’ Boundaries and wildlife lands managed outside the Project Boundaries. PacifiCorp owns the Merwin Yale and Swift No. 1 Project, while Cowlitz PUD owns the Swift No. 2 Project (the combined Projects of Swift No. 1 and Swift No. 2 are referred to collectively as the “Swift Projects”). Construction of the Projects began with the Merwin Dam in 1929 and was completed with the construction of Swift No. 1 and Swift No. 2 ending in 1958. The Federal Power Commission issued the first license for Merwin on November 29, 1929, which expired on November 29, 1979. That license was renewed on October 6, 1983 and was originally due to expire on April 30, 2009 but was accelerated by a Commission Order and now expires on April 30, 2006. The original license for Yale was issued on April 24, 1951 and expired on April 30, 2001. The original license for Swift No. 1 was issued on May 1, 1956 and expires on April 30, 2006. The original license for Swift No. 2 was issued on November 29, 1956, effective May 1, 1956, and expires on April 30, 2006.

Appendix D

Request for Committee Decision Template

Request No. [yyyy – #]

Request Date: [mm-dd-yyyy]

North Fork Lewis River Project

Request for Decision Template

[Project Title]

Part A –Decision Summary (to be completed after decision is made)

Date of Decision: [mm-dd-yyyy]

Expected Implementation Date of Action (if applicable): [mm-dd-yyyy]

Expected completion date of action (if applicable): [mm-dd-yyyy]

- **Decision Summary** (brief summary of decision or action made by Committee)

Part B –Decision Request (to be completed by Representative(s) requesting decision)

1. Representatives and Affiliations

- List all Representatives and Affiliations requesting Committee decision

2. Description and Justification of Request

- **Requested Action:** What specifically is the Committee to decide?
- Introduction and background
- Justification for requested action

3. FERC or Settlement Agreement Requirement(s)

- What relevant FERC or SA articles justify this action? [Articles xx]
- Are there any other regulatory requirements to support the requested action?

Part C – Committee Decision (to be completed by Committee)

4. Committee Decision

- Was the decision made by consensus (as defined in the Committee ground rules)?
- Document voting record and tally (if applicable)

5. Justification for Committee Decision

- What information (i.e. empirical data) and how was this information used to inform decision?

6. Contingencies or Conditions of the Decision

- Is decision contingent on other actions or information?
- Is implementation of decision contingent on specific actions or information?
- Are there any conditions attached to this decision?

7. Additional Information or Notations

Appendix E

Record of Decision Matrix

Request No	Request Date	Representative(s) and Affiliation(s)	Title of Request	Requested Action (from decision template)	FERC License or Settlement Agreement Reference	Vote Tally	Description and Justification of Decision	Contingencies for Decision	Date of Decision
2020-XX	mm-dd-yyyy								mm-dd-yyyy

McCune, Kimberly

From: McCune, Kimberly
Sent: Monday, June 1, 2020 12:55 PM
To: Amanda Froberg; Amelia Johnson; Asher, Eli; Bill Sharp; Brice Crayne; Bryce Glaser; Carol Serdar; David Howe; Denise Smee; Doyle, Jeremiah; Ed Meyer; Ferraiolo, Mark; Greg Robertson; Hudson, Michael; James Byrne; James H Malinowski; Joshua Ashline; Joshua Jones; Josua Holowatz; 'Kale Bentley'; Karchesky, Chris; Katie Pruit; Kelley Jorgensen; Lesko, Erik; Mariah Stoll-Smith Reese; Matt Harding; Morgan, David; Nathan Reynolds; Olson, Todd; Peggy Miller; Pienovi, Levi; Rhidian Morgan; Roberts, Aaron; Sam Gibbons; Samuel Kolb; Steve Manlow; Steve West; Taylor Aalvik; Tim Romanski; Tom Sinclair; Weatherly, Briana; Wendy McDermott; Whitesel, Timothy
Subject: Aquatics fund; can funds be used for project design
Attachments: 05032019 LR - E_Attachment E Aquatics Fund Process Timeline.docx

Follow Up Flag: Follow up
Flag Status: Flagged

Attn: ACC Representatives

The email below is for your consideration as we discuss the next aquatic funding cycle at the June 11th ACC Meeting. I've also attached the timeline from the 2019/2020 funding cycle for your consideration regarding changes needed for this year. Agenda and draft meeting notes to follow later this week.

Thank you.

K

From: McCune, Kimberly
Sent: Wednesday, April 15, 2020 11:49 AM
To: 'Lesko, Erik' <Erik.Lesko@pacificorp.com>
Cc: Olson, Todd (Todd.Olson@pacificorp.com) <Todd.Olson@pacificorp.com>; Amanda Froberg <afroberg@cowlitzpud.org>
Subject: Aquatics fund; can funds be used for project design

Assignments from April 9, 2020

McCune – Review Lewis River Settlement Agreement; does it prohibit funding design work for aquatic fund project submittals?

Upon review of the Lewis River Settlement Agreement (SA) I find the question of using Aquatic Funds for design efforts to be a grey area. There is room for argument in the SA language below whereby ACC support of projects with increased probability for successful reintroduction includes support of design work such as a large scale multi-reach project that would not otherwise move forward without funding design work. Section 7.5.3.2 also provides for ACC adaptive management of the strategic plan that guides Resource Project development. I think if the ACC selects a project with significant biological merit then the ACC can choose to support that effort by contributing to pay for design efforts, particularly if there are other matching funds that supports the overall project implementation. I do not find language specifically prohibiting the use of funds for design efforts.

7.5 Aquatics Fund. PacifiCorp and Cowlitz PUD shall establish the Lewis River Aquatics Fund (“Aquatics Fund”) to support resource protection measures (“Resource Projects”). Resource Projects may include, without limitation, projects that enhance and improve wetlands, riparian, and riverine habitats; projects that enhance and improve riparian and aquatic species connectivity that may be affected by the continued operation of the Projects; and **projects that increase the probability for a successful reintroduction program.** The Aquatics Fund shall be a Tracking Account maintained by the Licensees with all accrued interest being credited to the Aquatics Fund. PacifiCorp shall provide \$5.2 million, in addition to those funds set forth in Section 7.1.1, to enhance, protect, and restore aquatic habitat in the Lewis River Basin as provided below. Cowlitz PUD shall provide or cause to be provided \$520,000 to enhance, protect, and restore aquatic habitat in the Lewis River Basin as provided below; provided that Cowlitz PUD’s funds may only be used for Resource Projects upstream of Swift No. 2, including without limitation the Bypass Reach. The Licensees shall provide such funds according to the schedules set forth below.

7.5.3.1 Guidance for Resource Project Approval and Aquatics Fund Expenditures.

The Aquatics Fund shall not be used to fund Resource Projects that any entity is otherwise required by law to perform (not including obligations under this Agreement or the New Licenses for use of the Aquatics Fund), unless by agreement of the ACC.

- c. The Licensees shall evaluate Resource Projects using the following objectives:
 - (1) benefit fish recovery throughout the North Fork Lewis River, with priority to federal ESA-listed species;
 - (2) support the reintroduction of anadromous fish throughout the Basin; and
 - (3) enhance fish habitat in the Lewis River Basin, with priority given to the North Fork Lewis River.

The Licensees shall also consider the following factors to reflect the feasibility of projects and **give priority to Resource Projects that are more practical to implement:**

- (i) Whether the activity may be planned and initiated within one year,
- (ii) Whether the activity will provide long-term benefits,
- (iii) Whether the activity will be cost-shared with other funding sources,
- (iv) Probability of success, and
- (v) Anticipated benefits relative to cost.

7.5.3.2 Resource Project Proposal, Review, and Selection.

(1) By the first anniversary of the Effective Date, the Licensees shall develop, in Consultation with the ACC, (a) a strategic plan consistent with the guidance in Section 7.5.3.1 above to guide Resource Project development, solicitation, and review; and (b) administrative procedures to guide implementation of the Aquatics Fund. **Both may be modified periodically with the approval of the ACC.**

As a side note I've been reviewing the RCO grant website which is a great resource to fashion our funding process after, <https://rco.wa.gov/grant/salmon-recovery/> PacifiCorp has the means to create a website that clearly calls out the application requirements. RCO project funding indicates that for design-only projects without match, their applicants may not request more than \$200,000 and no match is required for design-only projects requesting \$200,000 or less.

Any comments/questions are welcome.

Kimberly McCune

Sr. Business Administrator

PacifiCorp – Hydro Resources

825 NE Multnomah St., Suite 1800

Portland, OR 97232

Ph: (503) 813-6078

LEWIS RIVER PLATEAU OPERATIONS

(AS DEFINED BY THE SETTLEMENT AGREEMENT)

“Plateau Operations are intended to restrict daily fluctuations and promote steady discharges”

DEFINITIONS

Flow Plateau: Discharge variation of ± 0.2 feet or less for a minimum of 6 hours

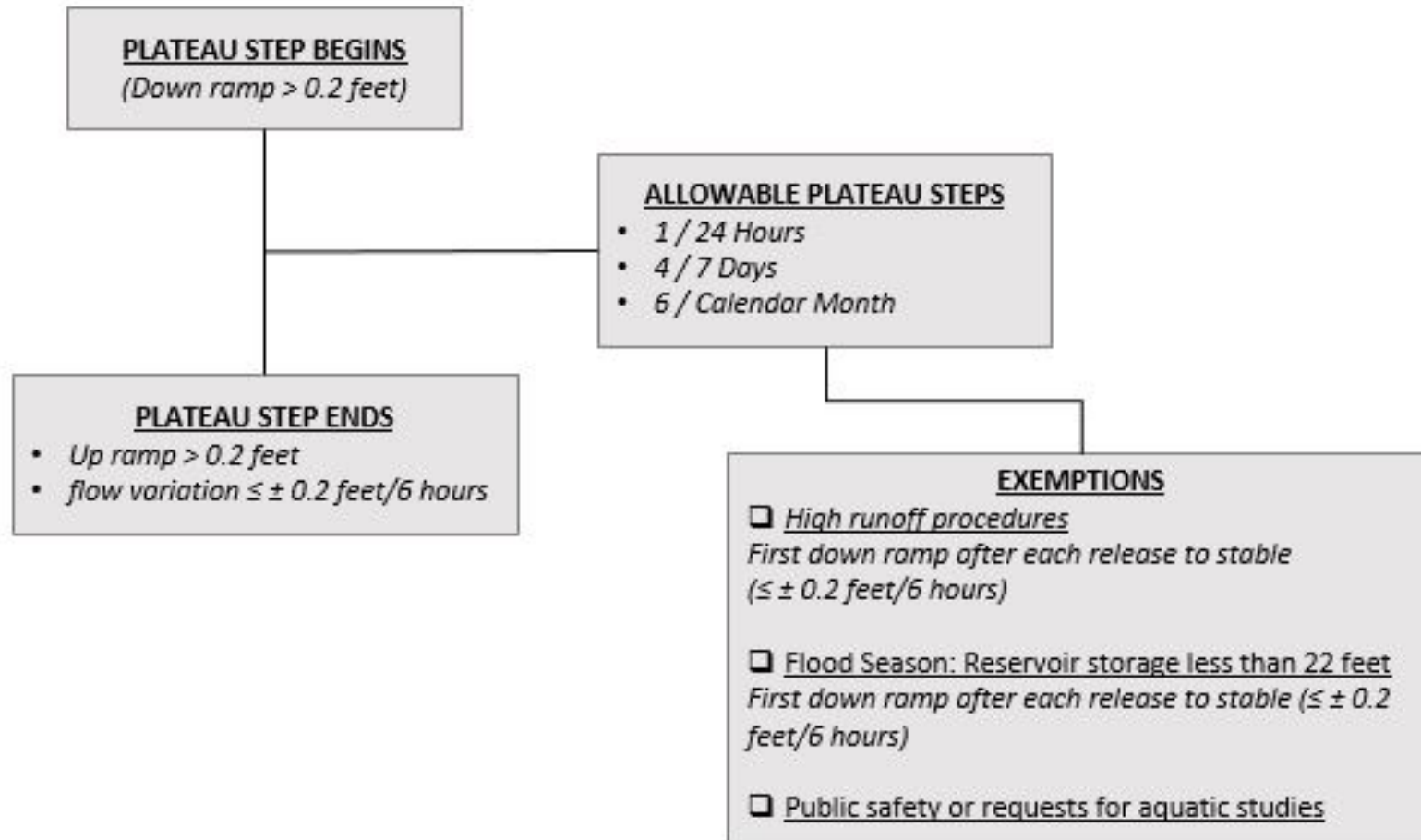
Plateau Step: Down-Ramping in flow below Merwin that would result in a change in river elevation of more than 0.2 (2/10) foot at the Ariel gage

Plateau Change: An accumulation of plateau steps

Flood Management Season: (Nov 1 - April 1); shorten by 2 weeks if March runoff forecast is below average

High runoff procedures: spill initiated to maintain FERC 17 foot reservoir storage

PLATEAU STEPS



PLATEAU CHANGE

PLATEAU CHANGE

*Accumulation of plateau steps (i.e., > 1)
Total allowable changes = 20*

FLOWS \geq 3,500 cfs

- *Steps total > 1 foot*
- *Excess change counts toward next plateau change*
- *Up ramps ignored*

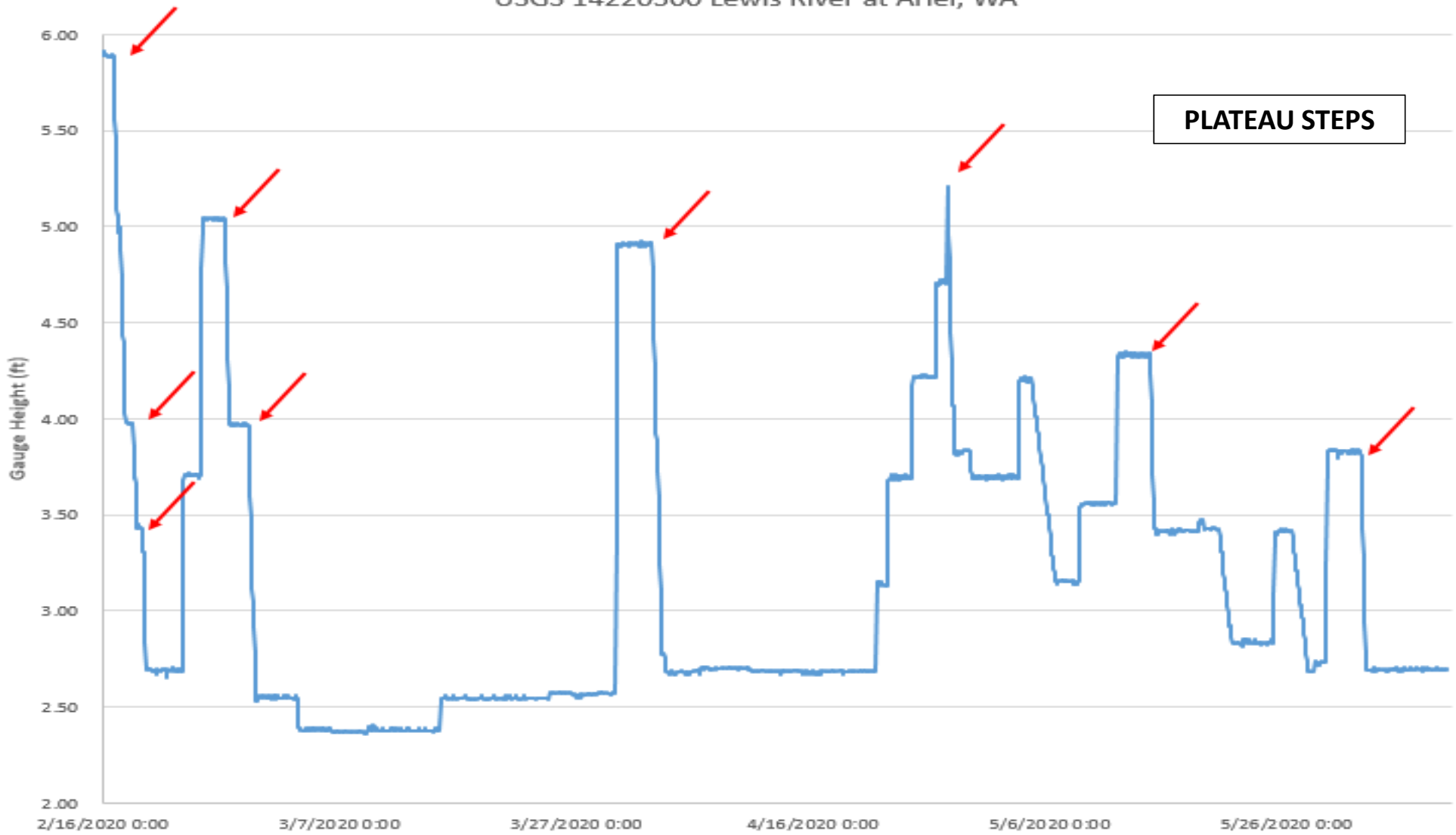
FLOWS \leq 3,500 cfs

- *Steps total > 0.5 foot*
- *Excess change counts toward next plateau change*
- *Up ramps ignored*

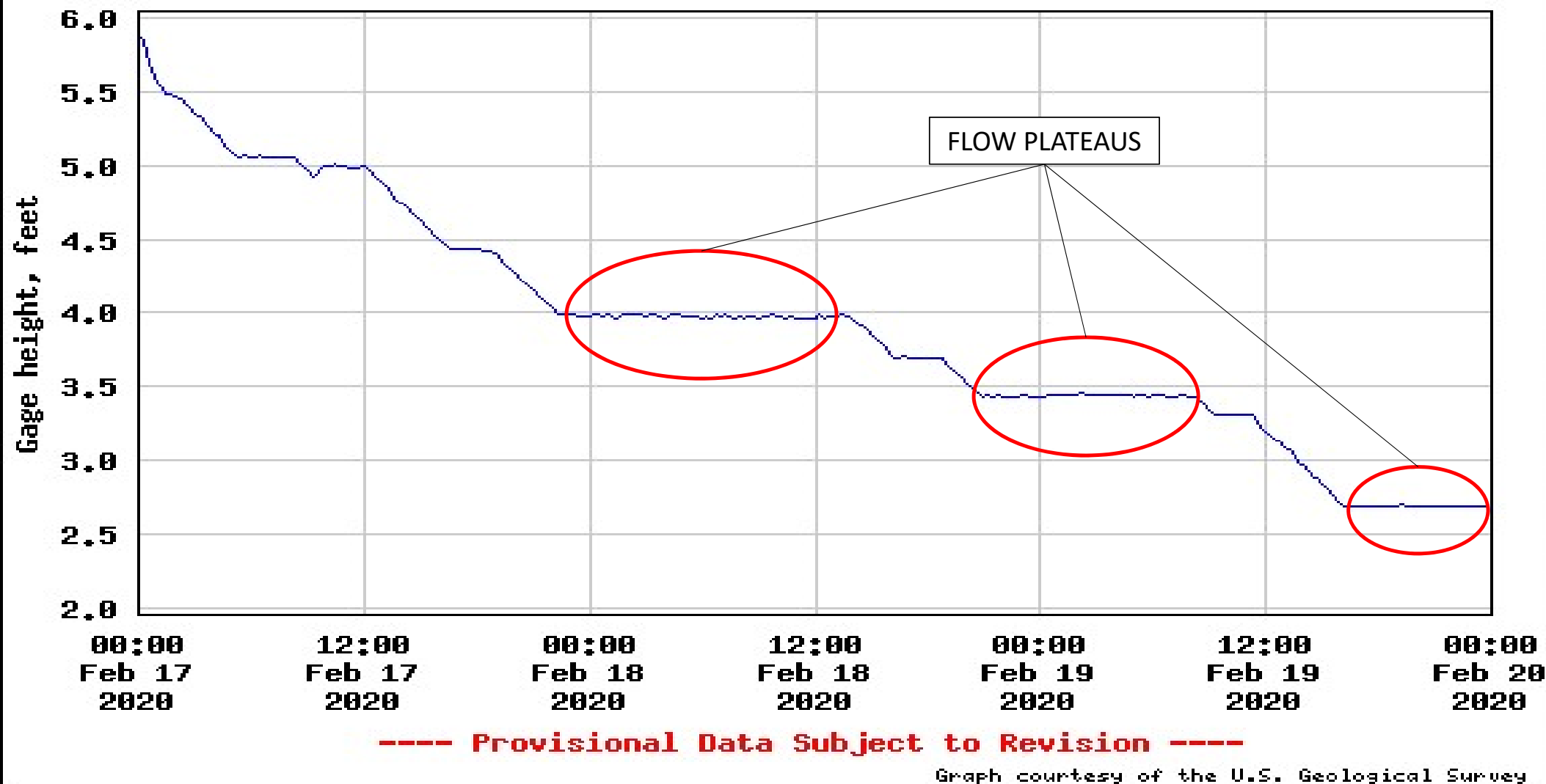
DOWN RAMPS CROSSING 3,500 CFS

- *Proportional plateau calculation used depending on actual elevation change occurring above and below 3,500 cfs set point*
- *Example - 6 inch change while flows exceed 3,500 cfs = 1/2 (50%) plateau change (i.e., 1/2 of 1 foot)*

USGS 14220500 Lewis River at Ariel, WA

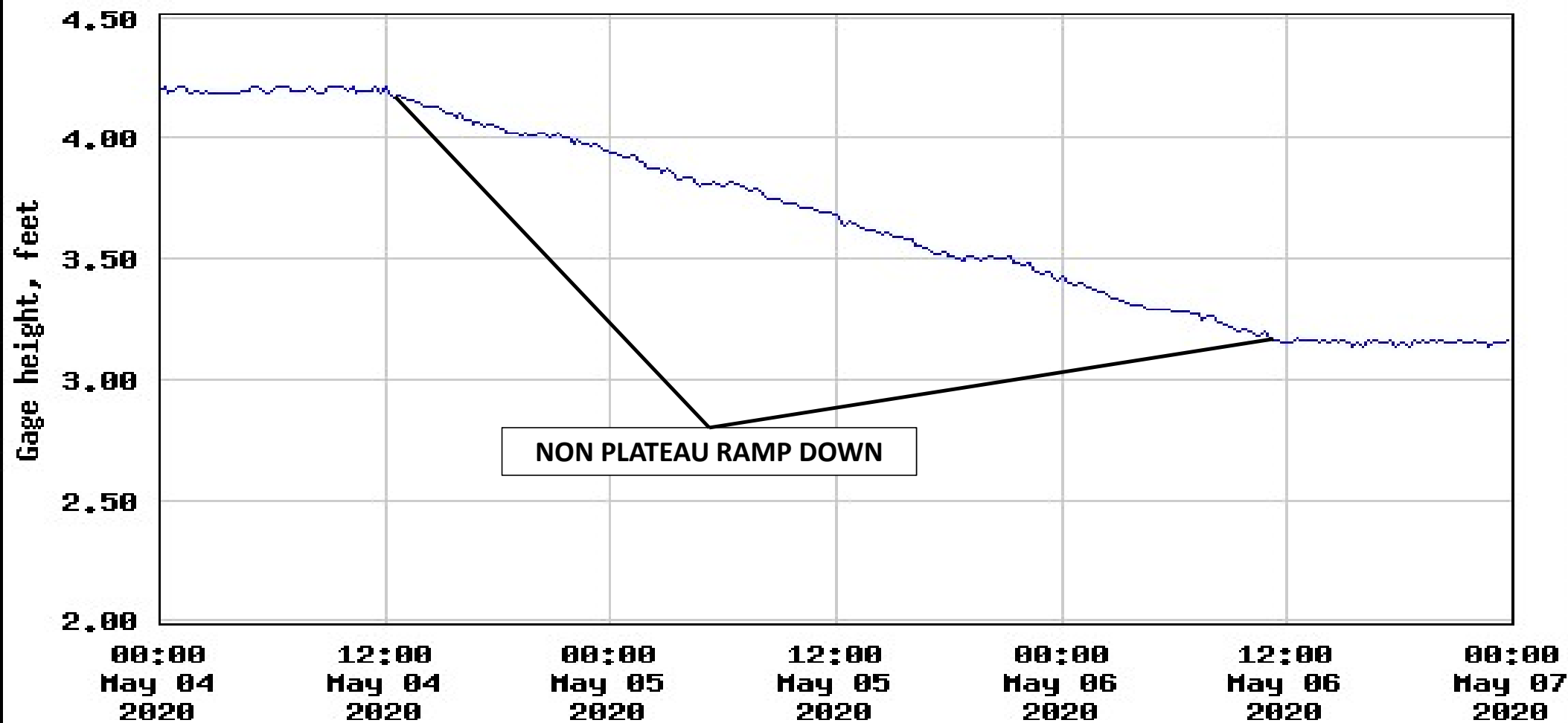


USGS 14220500 LEWIS RIVER AT ARIEL, MA



Graph courtesy of the U.S. Geological Survey

USGS 14220500 LEWIS RIVER AT ARIEL, WA



---- Provisional Data Subject to Revision ----

Graph courtesy of the U.S. Geological Survey

6.2.2 Plateau Operations at Merwin Dam

PacifiCorp shall further restrict daily fluctuation in flows below Merwin during the period of February 16 through August 15 of each year by maintaining flow plateaus (periods of near-steady discharge) as provided in this Section 6.2.2. Once a flow plateau is established, PacifiCorp shall maintain the flow plateau for as long a duration as practicable, but flow plateaus may be altered to a new level as a result of changes in natural flow or operational demands on the Lewis River power system, subject to the limitations of this Section 6.2.2. If any Party questions the duration of flow plateaus, they may request a meeting with appropriate PacifiCorp staff to review the information PacifiCorp used in determining when Plateau Steps were required. PacifiCorp shall cooperate in providing necessary information about and explanation of the actions taken. PacifiCorp shall limit changes in flow plateaus during the period of February 16 through August 15 as provided in (a) and (b) below:

Plateau Steps

For the purposes of this Agreement, a "Plateau Step" shall be defined to be down-Ramping in flow below Merwin that would result in a change in river elevation of more than 0.2 (2/10) foot at the Ariel gage. A single Plateau Step event will begin when the elevation drops by more than 0.2 (2/10) foot and be deemed complete when (i) the elevation rises by more than 0.2 (2/10) foot or (ii) does not change by more than plus or minus 0.2 (2/10) foot for more than 6 hours. Down-Ramping that results in changes in river elevation of less than or equal to 0.2 (2/10) foot shall not be considered a Plateau Step and will not be included in the accumulated total of Plateau Steps, provided that down-Ramping that results in a change of more than 0.2 (2/10) foot in any six-hour period will be considered a Plateau Step. Plateau Steps shall be limited to no more than one change in any 24-hour period, no more than 4 in any seven-day period, and no more than six in any calendar month. If PacifiCorp is required to release flows from Merwin Dam pursuant to the high runoff procedure, then for each such release pursuant to the high runoff procedure, down-Ramping to return to a level maintained for more than 6 hours without decreasing river elevation by more than 0.2 (2/10) feet shall not be counted as a Plateau Step. During flood season, if there is less than 5 feet of storage capacity in addition to the required 17 feet of storage capacity under the high runoff procedure, then the first down-Ramping after each flow release to restore the storage capacity shall not count as a Plateau Step. If PacifiCorp uses more than a single release episode to reach or exceed 22 feet of storage capacity, only the down-Ramping after the first such release shall not count as a Plateau Step; the subsequent down-Rampings shall be counted as Plateau Steps. Finally, if PacifiCorp is asked to lower flows below Merwin Dam for public safety reasons or to facilitate aquatics studies, such changes in river level shall not be counted as Plateau Steps.

Plateau Changes

An accumulation of Plateau Steps will result in a “Plateau Change” as further defined in this Section. PacifiCorp shall limit Plateau Changes to no more than 20 during the period February 16 through August 15. When flows are greater than or equal to 3,500 cfs below Merwin Dam, a Plateau Change shall occur when any series of consecutive Plateau Steps totals 1 foot of down-Ramping between February 16 through August 15. Any periods of up-Ramping during such period shall be ignored in such calculations. When flows are less than 3,500 cfs below Merwin Dam, a Plateau Change shall mean a series of consecutive Plateau Steps, during the period February 16 through August 15, totaling 0.5 (5/10) foot. Any periods of up-Ramping during such period shall be ignored in such calculations. If a single Plateau Step in a series would cause the total to exceed one foot (when flows are greater than or equal to 3,500 cfs) or one-half foot (when flows are less than 3,500 cfs), the excess shall be counted toward the next Plateau Changes. If a Plateau Step begins when flows are greater than 3,500 cfs and ends when flows are less than 3,500 cfs, the Plateau Change will be determined by adding the fractions of a Plateau Change occurring before and after the river discharge below Merwin Dam passes 3,500 cfs. For example, if a Plateau Step begins when flows are at 5,000 cfs and has measured 6 inches when flows reach 3,500 cfs (one-half of a Plateau Change for flows above 3,500 cfs) and continues to decline an additional 3 inches ending at 3,000 cfs (one-half of a Plateau Change for flows below 3,500 cfs), it would count as one full Plateau Change.

Lewis River Fish Passage Report

May

Merwin Fish Collection Facility and General Operations

A total of (1,229) fish were captured at the Merwin Dam Adult Fish Collection Facility (MFCF) during the month of May. The majority of these fish collected were spring Chinook (85.6%), with a smaller proportion being winter steelhead (12.0%).

The MFCF was unexpectedly shut down on Friday, May 22, 2020 due to damage to the automatic fish crowding system. It was required that the fish ladder be turned off and dewatered for repairs to be made. The damage was repaired and the lift and conveyance system was placed back into service on Thursday, May 28, 2020. Modifications to the fish lift and conveyance system are currently being considered to help reduce future unscheduled outages from occurring. PacifiCorp continued to utilize a modified fish transport schedule throughout the month of May. Under this modified schedule, the fish lift and conveyance system operate 7 days per week, with fish sorting and transport taking place weekdays only. This schedule prevents the need to have contracted fisheries staff enter the Merwin adult trap over the weekend, reducing the risk of COVID-19 transmission. Flow below Merwin Dam fluctuated between 2,700 and 5,550 cfs for the month of May (Figure 1).

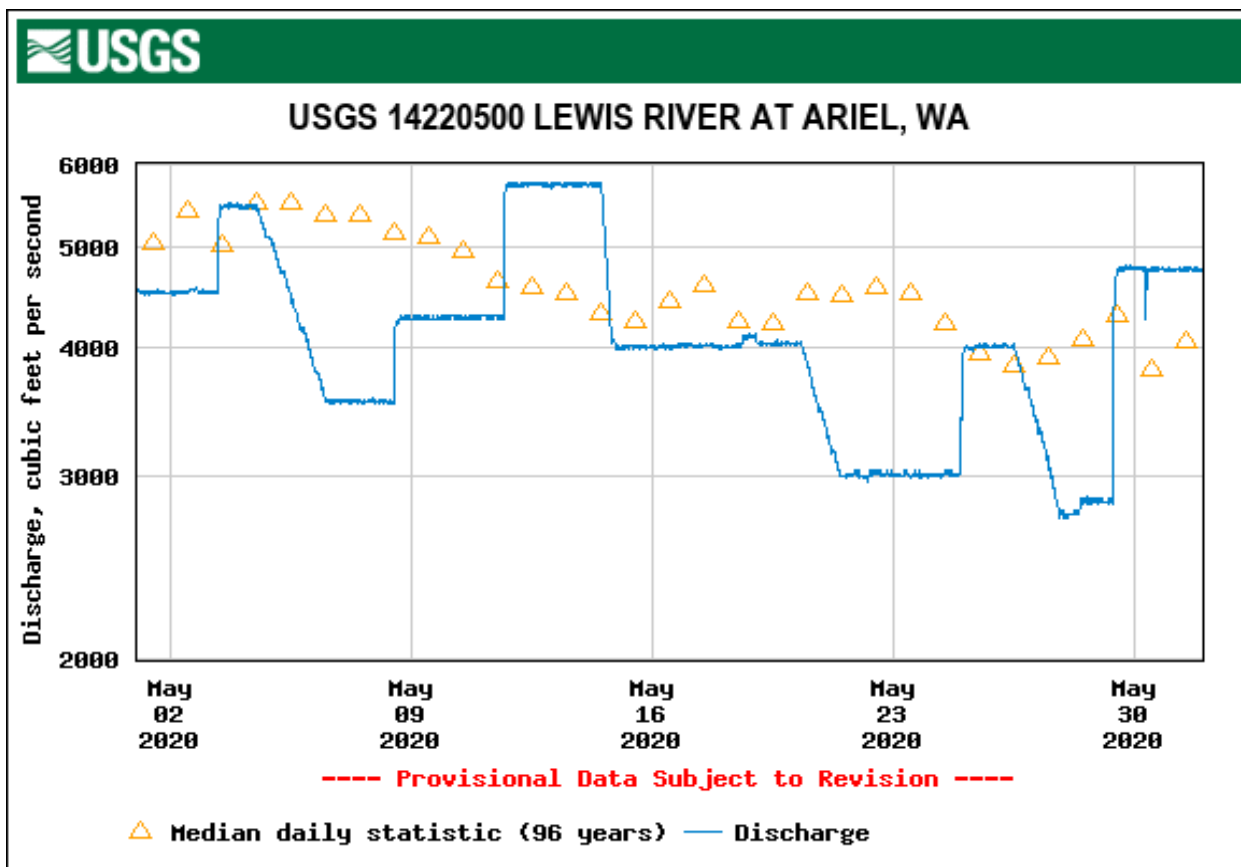


Figure 1. Discharge in cubic feet per second recorded at the USGS Ariel, WA gauge (14220500) located immediately downstream of Merwin Dam.

Upstream Transport

Three (3) Blank Wire Tag (BWT) winter steelhead were captured by the end of December 2019 and were transported upstream as part of the 2020 run year. An additional 724 BWT's have been collected and transported upstream since January 1, 2020, bringing the 2020 run total for BWTs to 727. In addition to these fish, an additional 470 natural origin (NOR) winter steelhead have been collected at the MFCF, with 306 of these being transported upstream of Swift Dam. The total number of NOR winter collected at the MFCF in 2020 has been the higher than any previous year since the facility was commissioned in 2014 (Figure 2). By the end of May, the total number of winter steelhead (Blank Wire tag and NOR) transported upstream was 1,033 (Table 1). Overall counts of both BWT and NOR winter steelhead continued to taper off during the month of May, as is consistent with previous years. In addition to the steelhead, 358 spring Chinook, twelve cutthroat, and eleven coho have been collected and transported upstream of Swift Dam in 2020.

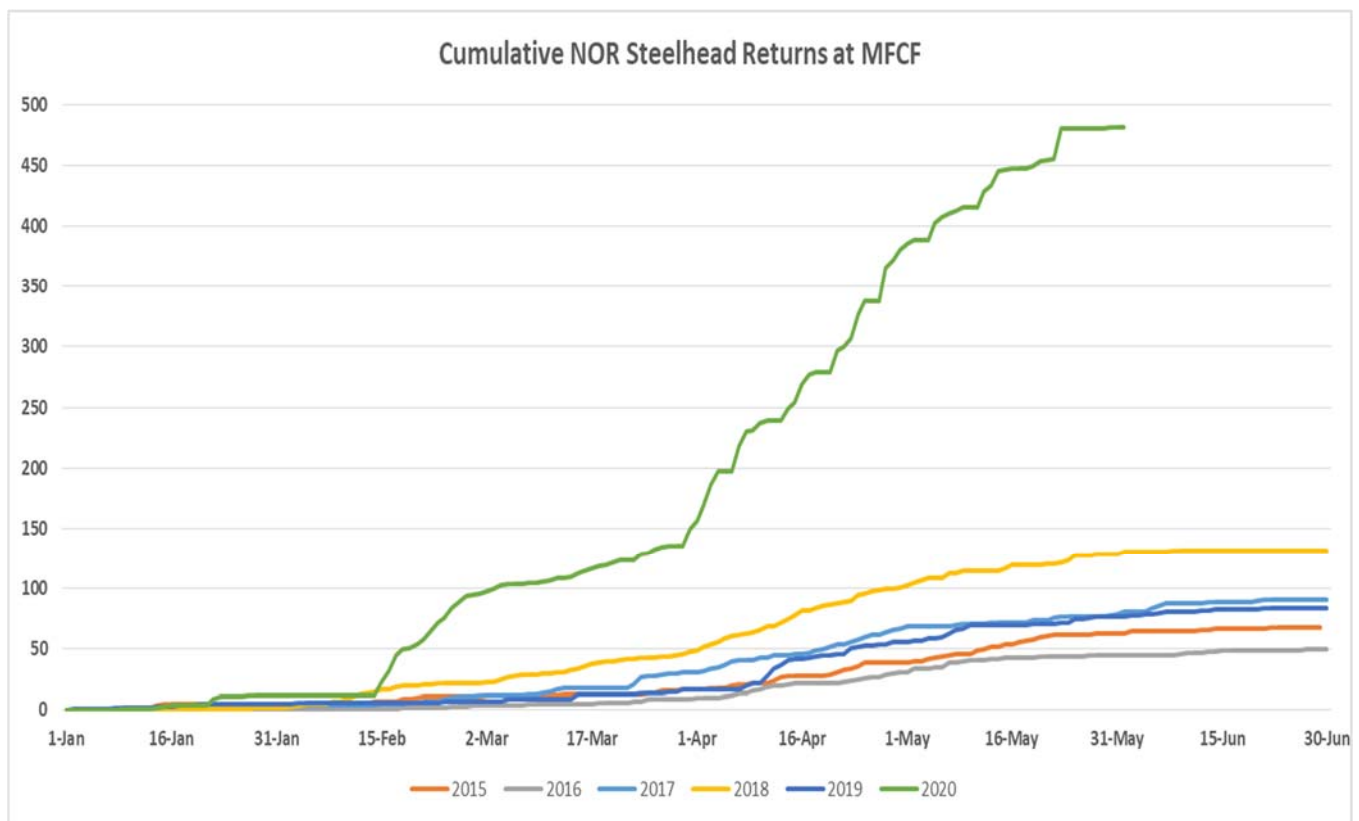


Figure 2. Cumulative number of Natural origin (NOR) steelhead collected at Merwin Adult Fish Collection Facility by year.

Table 1. Total number of adult winter steelhead transported upstream of Swift Dam by run-year.

Run Year	Male	Female	Total adult winter steelhead taken upstream of Swift Dam
2012	141	48	189
2013	440	301	741
2014	452	581	1,033
2015	746	477	1,223
2016	378	376	754
2017	331	261	592
2018	682	535	1,227
2019	527	486	1,013
2020	501	532	1,033

Floating Surface Collector (FSC)

The total number of out-migrants collected at the Swift FSC incrementally increased throughout the month of May. The year-to-date collection total for Chinook smolts is higher than any previous year (Figure 3). Coho and steelhead counts remain similar to those seen in 2017 (Table 2).

The ongoing Collection Efficiency study taking place at the Swift FSC will hopefully give insight into fish behavior once fish are inside the fish channel. The information ascertained from this study will provide guidance as to any operational or structural changes that may be needed in order to increase collection efficiency at the FSC. The study is scheduled to be continue into the month of July.

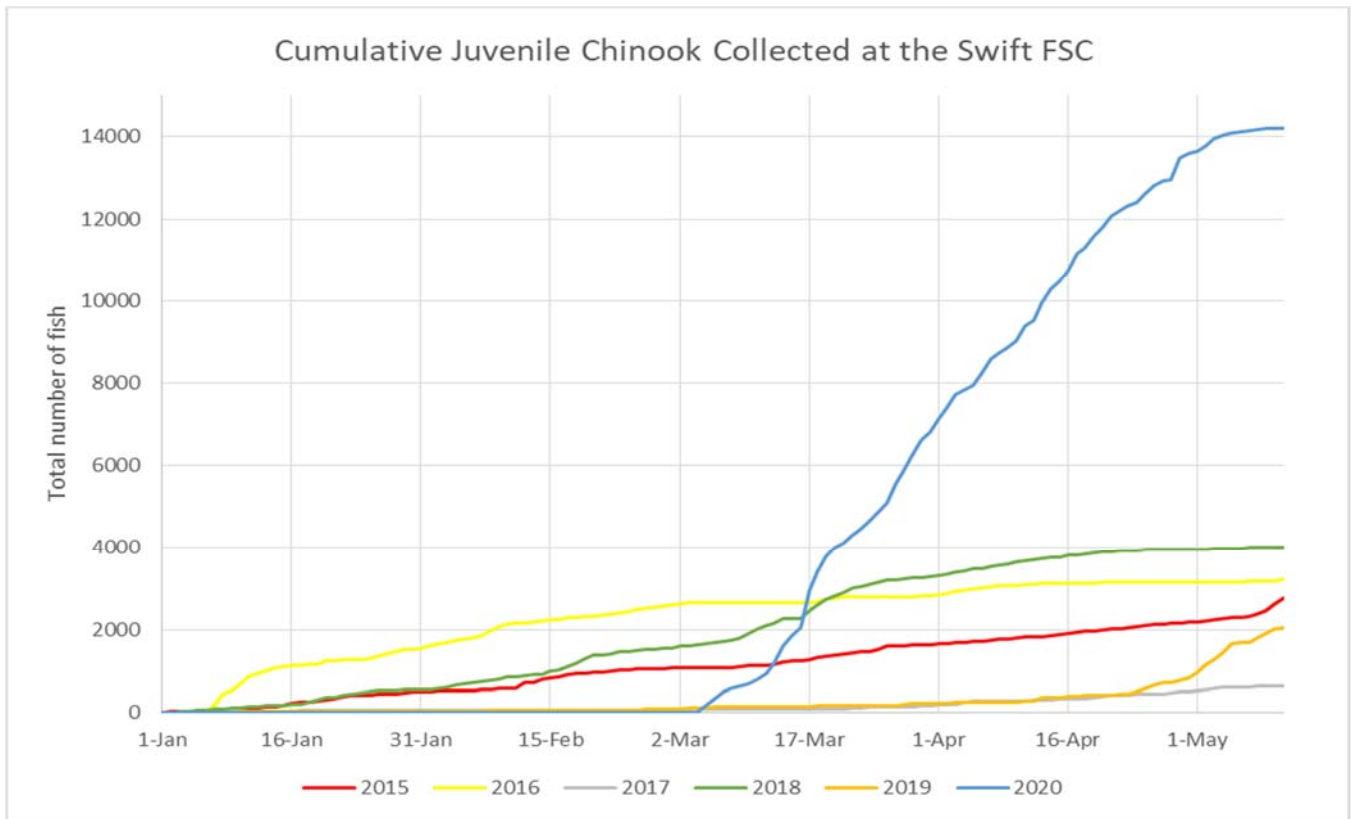


Figure 3. Cumulative number of Chinook smolts collected at the Swift Floating Surface Collector by year.

Run Year	May Collection Numbers by Run Year at Swift FSC				
	Coho	Chinook	Steelhead	Cutthroat	TOTAL
2013	7,358	377	100	264	8,099
2014	2,435	216	311	515	3,477
2015	14,912	1,938	887	333	18,070
2016	23,799	233	1,392	551	25,975
2017	12,963	738	1,565	149	15,415
2018	18,965	190	6,651	329	26,135
2019	55,788	2,753	2,321	473	61,335
2020	11,870	1,104	2,356	245	15,575

Table 2. Total number of outmigrants collected at the Swift Floating Surface Collector during the month of May by year.

It was required that the FSC be turned off on May 8, 2020 due to heavy debris loading and needed repairs to a damaged separation screen. The FSC was returned to service on May 11, 2020. Floating woody debris at the FSC was particularly heavy during May 2020 due to filling the reservoir and suspending debris that had accumulated along the shoreline over the winter. PacifiCorp is continuing to make adjustments and modifications to better handle and remove debris from the FSC. Modifications intended to improved debris management have included to date: 1) expansion of the fry holding to include a traveling screen to continually remove debris; 2) replacing the original fish conveyance pipes between the separator bars to the fish holding tanks with a larger, more open flume system to reduce debris accumulation and blockage; and, 3) reconfiguring the fish separator bars as to prevent debris impingement and accumulation. Ongoing modifications include a second traveling screen and debris removal system into the adult fish holding tank. In addition to the work within the FSC, PacifiCorp actively manages two static debris booms designed to collect debris within the forebay and in the upper portion of Swift Reservoir before it reaches the FSC. Daily debris removal and reservoir clean-up is ongoing.

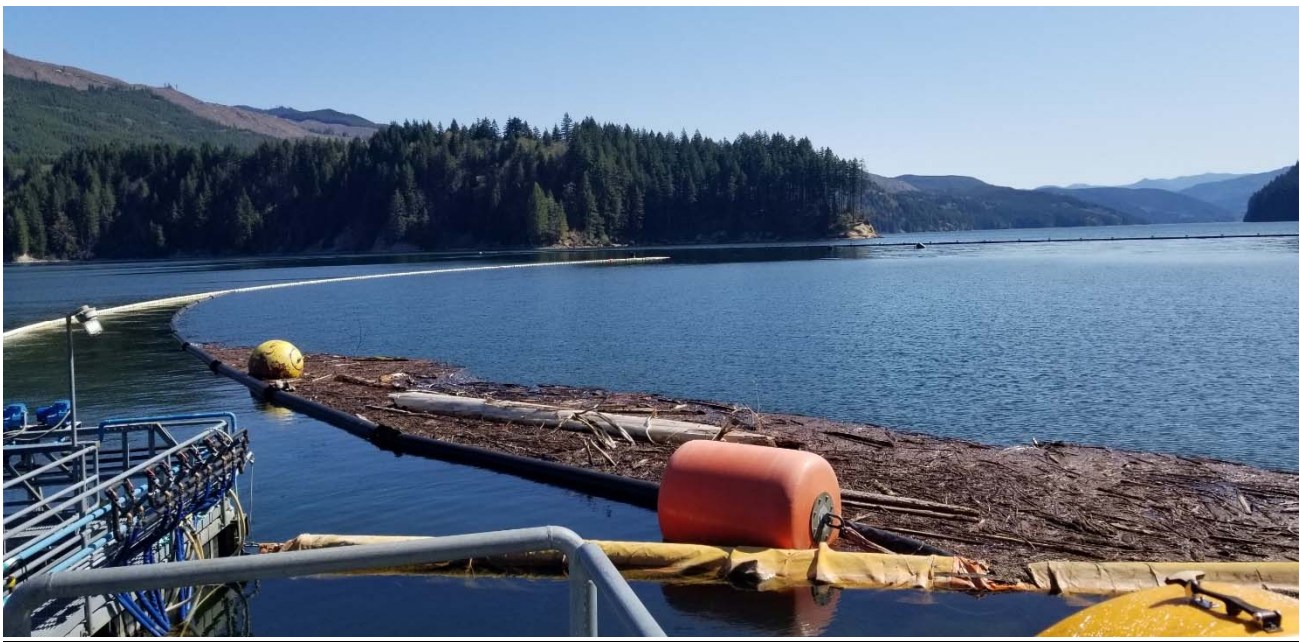


Figure 4. Overnight debris accumulation at the entrance of the Swift Reservoir FSC, May 2020.

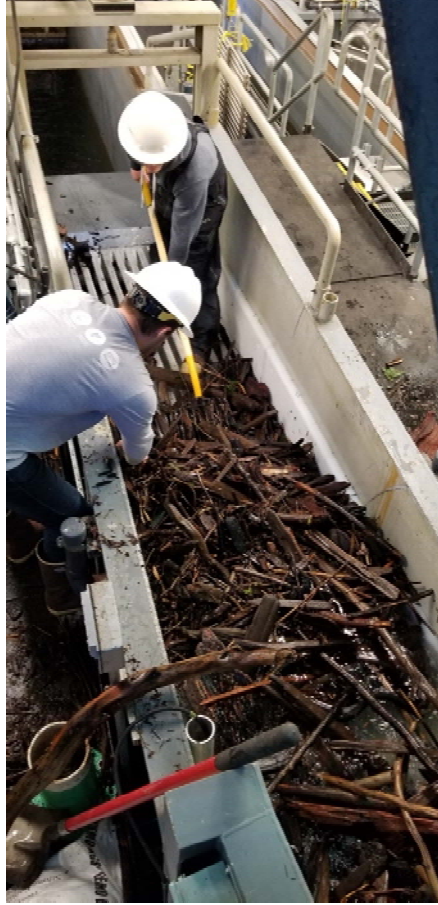


Figure 5. Debris accumulation within the fish passage channel and on separator bars inside the Swift Reservoir FSC, May 2020.

Fish Facility Report
Swift Floating Surface Collector
May 2020

Day	Coho			Chinook			Steelhead				Cutthroat		Bull Trout	Planted Rainbow	Total	
	fry	parr	smolt	fry	parr	smolt	fry	parr	smolt	kelt	fry	<13 in				> 13 in
1		2	150			136			208			8		0	3	507
2		2	96			146		1	168					0	4	417
3			67			98		1	54	2		9		0	12	243
4			97		1	38			189			9		0	14	348
5		1	43			42		1	149			4		0	11	251
6	2		40			26			32	5		1		0	3	109
7		7	68			35			166	4		8		0	1	289
8			89			14			174	7		16		0	6	306
9																
10																
11																
12		18	291		1	34		1	128			6		0	0	479
13		7	188		1	8			11			4		0	1	220
14		15	159			8		1	59	2		4		0	6	254
15	1	15	398			12			95			17		0	2	540
16	4	7	825			28		1	73	1		9	1	0	3	952
17			153			12			38					0	0	203
18		2	376			2			74	5		9	1	0	0	469
19		5	462			20		1	92			13		0	7	600
20	3	29	414			10		2	46			6		0	4	514
21		5	302						12			9		0	0	328
22	1	41	559		2	3			13	2		5		0	33	659
23	4	98	718			47			60	2		14	4	0	48	995
24		47	949			74			89	2		12		0	130	1303
25		72	668			78		1	71	4		14		0	101	1009
26			932			45	3		44	6		14	1	1	237	1283
27			1081			89		2	104	6		28	4	0	197	1511
28		4	450			20		1	77	2		1		0	87	642
29		8	580			17			46	1		4		0	44	700
30	12	16	437			47			40	1		4		0	53	610
31		88	762		3	7		3	25	2		6		1	17	914
Monthly	27	489	11354	0	8	1096	3	16	2337	54	0	234	11	2	1024	16655
Total	38	3554	13599	0	2906	11861	4	41	3667	62	1	372	25	13	1516	37659