

**Lewis River Hydroelectric Projects Settlement Agreement
Aquatic Coordination Committee (ACC)
Meeting Agenda**

Date & Time: Thursday, October 13, 2016
9:00 a.m. – 10:30 a.m.

Place: CONFERENCE CALL ONLY

Contacts: Frank Shrier: (503) 320-7423

Time	Discussion Item
9:00 a.m.	Welcome <ul style="list-style-type: none">➤ Review Agenda and ACC 9/8/16 Meeting Notes➤ Comment & Accept Agenda and 9/8/16 Meeting Notes
9:10 a.m.	Public Comment Opportunity
9:20 a.m.	Aquatic Fund 2016/2017; information on pre-proposals
10:00 a.m.	Study/Work Product Updates <ul style="list-style-type: none">○ M&E Plan Update○ H&S Plan Update○ Woodland Release Ponds/Permit - Status○ Acclimation Ponds - Status○ Merwin Upstream Passage – Status○ Swift Floating Surface Collector – Status○ SPCH smolt release updates
10:20 a.m.	<ul style="list-style-type: none">➤ Next Meeting's Agenda➤ Public Comment Opportunity Note: all meeting notes and the meeting schedule can be located at: http://www.pacificorp.com/es/hydro/hl/lr.html#
10:30 a.m.	<i>Adjourn</i>

Join by Phone

+1 (503) 813-5252 [Portland, Ore.]

+1 (855) 499-5252 [Toll Free]

Conference ID: 848594

FINAL Meeting Notes
Lewis River License Implementation
Aquatic Coordination Committee (ACC) Meeting
October 13, 2016
Merwin Hydro Control Center

ACC Participants Present (14)

Chris Karchesky, PacifiCorp
 Frank Shrier, PacifiCorp
 Kim McCune, PacifiCorp
 Erik Lesko, PacifiCorp
 Amanda Froberg, Cowlitz PUD
 Aaron Roberts, WDFW
 Peggy Miller, WDFW
 Pat Frazier, WDFW
 Ruth Tracy, USDA Forest Service
 Bryce Michaelis, USDA Forest Service
 Amelia Johnson, LCFRB
 Eli Asher, Cowlitz Indian Tribe

Guests

Al Thomas, Columbian
 Greg Robertson, USDA Forest Service

Calendar:

November 10, 2016	ACC Meeting	Merwin Hydro
December 8, 2016	ACC Meeting	Merwin Hydro

Assignments from October 13, 2016	Status
McCune: Provide ACC with link to all aquatic fund pre-proposals.	Complete – 10/13/16
Frazier: Provide a draft of Section 17 and submit to the M&E subgroup via email by November 9, 2016.	Complete – 11/9/16
Karchesky: To provide Ruth Tracy with the link or a PDF of the Lewis River 2015 Annual Fish Passage Report, if needed.	Complete
Karchesky/Lesko/Frazier: Schedule an on-site meeting or conference call to have a broader discussion about seed planting.	Complete

Assignments from September 8, 2016	Status
Roberts: As numbers of adult Coho returning to the hatchery increase, Michelle Day wants to revisit how long fish are being held in Lewis River Hatchery before being processed.	Pending

Assignments from February 11, 2016	Status
Frazier: Submit extension request details to McCune for the 2013 Survey of BT Stream Habitat Aquatic Fund Project.	Pending – expect to receive by 12/31/16

Opening, Review of Agenda and Meeting Notes

Frank Shrier (PacifiCorp) called the meeting to order at 9:05 a.m. and reviewed the agenda. No additions to the agenda were requested.

Shrier also reviewed the September 8, 2016 meeting notes and assignments. The meeting notes were approved without change at 9:10am.

Shrier also informed the attendees that the 4.1.9 Review of New Information Regarding Fish Transport into Lake Merwin and Yale Lake and 7.6 In Lieu Fund topic will be a separate set of meeting notes and not combined with the ACC meeting notes.

Public Comment

None

Review of Assignment

Pat Frazier (WDFW) informed the ACC attendees that the Bull Trout Subgroup have completed its analysis. WDFW will provide a timeline to PacifiCorp and request an extension by the contract expiration date of 12/31/16.

Assignments from February 11, 2016	Status
Frazier: Submit extension request details to McCune for the 2013 Survey of BT Stream Habitat Aquatic Fund Project.	Pending

Aquatic Fund 2016/2017; Information on Pre-Proposals

Shrier informed the ACC attendees that six (6) pre-proposals were submitted by the due date of October 3, 2016 from the following applicants (see table below). The Utilities will submit their evaluations of each project to the ACC within one week of the November 10, 2016 ACC meeting.

Total requested aquatic funds is \$976,195.00

Applicant	Project Title	Project Schedule	Benefit
Cowlitz Tribe	Colvin Dam Removal Preliminary Design	2017/2018	Restore natural sediment transport processes and fish passage to benefit salmonid populations in Colvin Creek and downstream reaches of lower North Fork Lewis River.
USDA Forest Service	Lewis River 21 Phase I	2017/2019	Restore approx. 1,000' of LR mainstem habitat 300 ' upstream of Rush Creek (tier 1 reach). Approx. 300 pieces of LWD will be placed along margins in the mainstem to improve rearing habitat.
USDA Forest Service	Spencer Creek Alluvial Fan and Channel Rehabilitation	2017/2019	Restore Spencer Creek from confluence of the NF Lewis upstream approx. 1,000 feet located o the lowest 1,000' of Spencer Creek. Creating approx. 7 complex structures within Spencer Creek to provide quality spawning, rearing and overwintering habitat.
LCFEG	Haapa Side Channel Habitat Restoration - Phase II	2017/2021	Enhance 1,350' side channel and associated placement of LWD to enhance channel stability; connect backwater channel; construct 200' long groundwater fed alcove chum spawning and rearing channel; install beaver dam analog at confluence of side and backwater channels.
LCFEG	NF Lewis 13.5 River Braiding Project	2017/2020	Project builds on previous work by creating 1,200' of new side channel habitat including LWD complexity structures to increase the quantity and quality of spawning and rearing habitat.
WDFW	Bald Mt. Creek Fish Barrier Correction	2017/2018	Replacing two barrier crossings to fish passage; located on a left bank trib to Cedar Creek (locally called Bald Mt. Creek); replace existing barrier culvert with 30' bridge; regrading road approaches, downstream channel regrading and reposition existing log controls to direct flow away from the road fill and create resting pools.

Kim McCune (PacifiCorp) will provide the ACC a link to all aquatic fund pre-proposals.

McCune informed the ACC that the contracting requirements for the 2014 Haapa Habitat Enhancement – Phase 1 project is very close to complete. All landowners have signed PacifiCorp's Landowner Release Agreement including WDFW. PacifiCorp is completing the final legal details this month at which time LCFEG can invoice for the \$40,000 awarded by the ACC.

Study/Work Product Updates

M&E Plan Update

Sections 15 & 22 will be discussed at the next Subgroup meeting October 31, 2016.

Frazier noted that he met with the bull trout group to discuss Section 17 and have set a schedule to complete a draft and provide to the M&E subgroup via email by November 9, 2016.

H&S Plan Update

Erik Lesko (PacifiCorp) informed the ACC attendees that the goal is to complete the 2017 Plan by December 31, 2016. Objective 2 has been emailed to the H&S Subgroup. A draft of Objective 11 will be emailed out in the next couple of days. WDFW is working on Objective 1 – Fall Chinook Monitoring.

Objectives 6 & 8 will be complete in the next two weeks.

WDFW and PacifiCorp agree that the week of November 14th through the week of November 25th they will start with Object 2 review. Lesko will email out a Doodle Poll to the Subgroup.

Woodland Release Ponds

PacifiCorp is waiting to hear from the FERC regarding the term of the DNR aquatic land lease. DNR only issued a 30 year term permit and the Utilities prefer full term of the FERC license, which has 42 years remaining on the License. The FERC has the authority to evoke a federal exemption but the Utilities prefer to work it out with DNR.

Acclimation Pond Updates

Ruth Tracy (USDA Forest Service) is talking to her internal staff and staff at PacifiCorp to discuss a removal schedule and permitting for Muddy River acclimation pond.

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

During the month of September, a total 2,776 fish were captured at the Merwin Fish Collection Facility. The vast majority of these fish were early coho (49%) and summer steelhead (46%) while the few remaining comprised of mostly of fall Chinook. All hatchery fish were given to Washington Department of Fish and Wildlife. Three (3) coastal cutthroat trout greater than 13-inches were captured this month.

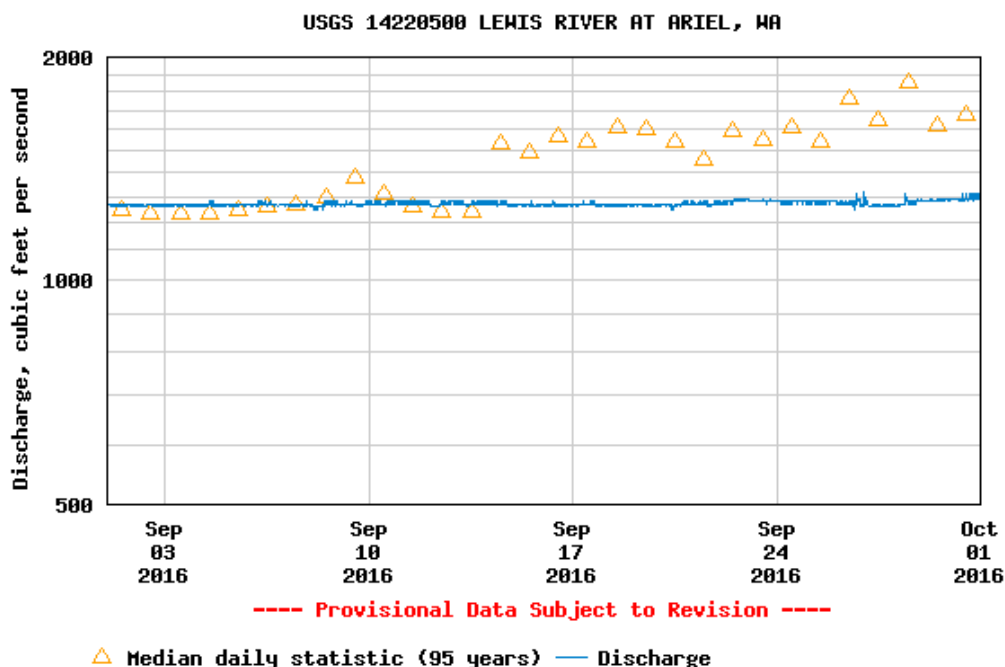
The Merwin Trap ran continuously through the month of September. PacifiCorp moved back to 7-day per week sorting schedule the end of August. The Auxiliary Water Supply (AWS) system, which can boost attraction flow up to 400 cfs, was operated daily in the month of August.

River flow below Merwin Dam remained consistent at approximately 1,270 cfs throughout the month of September.

Outage scheduled week of October 17, 2016 for a fyke install. In addition, river flows are up to 10,400 cfs in response to the projected heavy storm coming into the area on Friday and Saturday.

Ruth Tracy (USFS) asked where she could find information regarding the total number of fish release by location in the upper basin in 2015. Chris Karchesky (PacifiCorp) offered to provide her with the link or a PDF of the 2015 Lewis River Annual Fish Passage Report.

Discharge, cubic feet per second



Upstream Transport ([Attachment A](#))

For calendar year 2016, seven hundred sixty seven blank wire tag winter steelhead, six hatchery late-coho (January 2016), and 1,902 early-coho (September 2016), and twenty-five cutthroat trout greater than thirteen inches in length have been transported upstream.

2016 Coho Upstream Transport (thru September 30, 2016)

	Male	Female	Jack (wild)	Total
Coho salmon	844	736	322	1,902

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

The Swift FSC remained off during the month of September for summer maintenance. The summer outage period was established by PacifiCorp with concurrence of the Lewis River Aquatic Coordination Committee in order to preform annual maintenance on the facility. During this time period, reservoir water temperatures are generally warm and fish migration numbers are low. The FSC returned to service mid-October once water temperature began to cool and fish began out-migrating again. Water temperature recorded at the FSC remained greater than 18.0 °C through the month of September.

Swift FSC Debris Boom

Karchesky informed the ACC that the Devil Backbone debris boom was schedule to be installed the week of October 10, 2016. The intention of this boom is to help reduce the amount of debris that is entrained by the FSC as well as function as a wave attenuator.

Spring Chinook Smolt Release Update

Karchesky informed the ACC attendees that due to an error in PIT tag shipment, some acclimation Chinook were implanted with full duplex tags which are not effectively detected by the antenna arrays in the tributaries. Biomark sent replacement tags and the rest of the Chinook were re-tagged with half duplex tags. As a result, those remaining fish were released in the later part of September 2016. The initial release focus was on the Clear and Muddy. A revised release schedule is provided below (Table 1):

Table 1. 2016 Spring Chinook smolt release schedule for the five upper Lewis River Release sites. Number of additional PIT tagged fish within each release group is shown in parentheses. Fish tagged with full duplex (FDX) and half duplex (HDX) are also indicated.

Period	Clear Creek	Muddy River	Crab Creek	Drift Creek	Total
Sept. 12-16	8,000 (500 FDX) Released 9/16	0	15,000 Released 9/15	500 (100 FDX) Released 9/14	23,500 (600 FDX)
Sept. 19-23	0	2,300 (2,300 FDX) Released 9/22	0	0	2,300 (2,300 FDX)
Sept. 26-30	1,850 (300 HDX) Released 9/28	1,850 (300 HDX) Released 9/30	0	0	3,700 (600 HDX)
Oct. 3-7	0	0	0	0	0
Oct. 10-14	200 (200 HDX) Release 10/12/16	200 (200 HDX) Release 10/13/16	0	0	400 (400 HDX)
Total	10,050 (500 FDX, 500 HDX)	4,350 (2,400 FDX, 500 HDX)	15,000	500 (100 FDX)	29,900 (2,900 FDX, 1,000 HDX)

Karchesky indicated that detection data regarding the acclimation fish releases will be made available to the ACC this winter.

Other

Shrier informed the ACC attendees that over the next six (6) days there is 12" of rain expected at June Lake (3,300' level). The storm may have lags between and PacifiCorp is hoping for this condition.

Seed Planting for Coho

Karchesky (PacifiCorp) briefly mentioned that a number coho have already been observed in the upper most areas of the upper basin (e.g., Clearwater Creek, Smith Creek) as part of the ongoing redd surveys. Karchesky questioned whether the seed plant efforts were still necessary for 2016 even though there has been significant volitional distribution of coho in the upper basin. General discussion took place regarding seed planting, the purpose of seed plants and PacifiCorp's logistical ability to get the fish into the upper basin based on capability and availability of fish trucks. Lesko expressed it was a good idea to have a side discussion on seed planting for coho and come up with a plan on numbers and location for seed plants. An on-site meeting or conference call is in order to have a broader discussion. Until further discussion is held, PacifiCorp will continue with seed planting efforts.

ACC Meeting adjourned at 10:00 a.m.

Agenda items for November 11, 2016

- October 13, 2016 Meeting Notes
- Study/Work Product Updates
- Aquatic Fund 2016/2017; Review Evaluation Matrix

Next Scheduled Meetings:

November 10, 2016	December 8, 2016
Merwin Hydro Control Center	Merwin Hydro Control Center
Ariel, WA	Ariel, WA
9:00 a.m. – 3:00 p.m.	9:00 a.m. – 3:00 p.m.

Meeting Handouts & Attachments:

- Meeting Notes from 9/8/16
- Agenda from 10/13/16
- **Attachment A** – Lewis River Fish Passage Report (September 2016)

Lewis River Fish Passage Report

September 2016

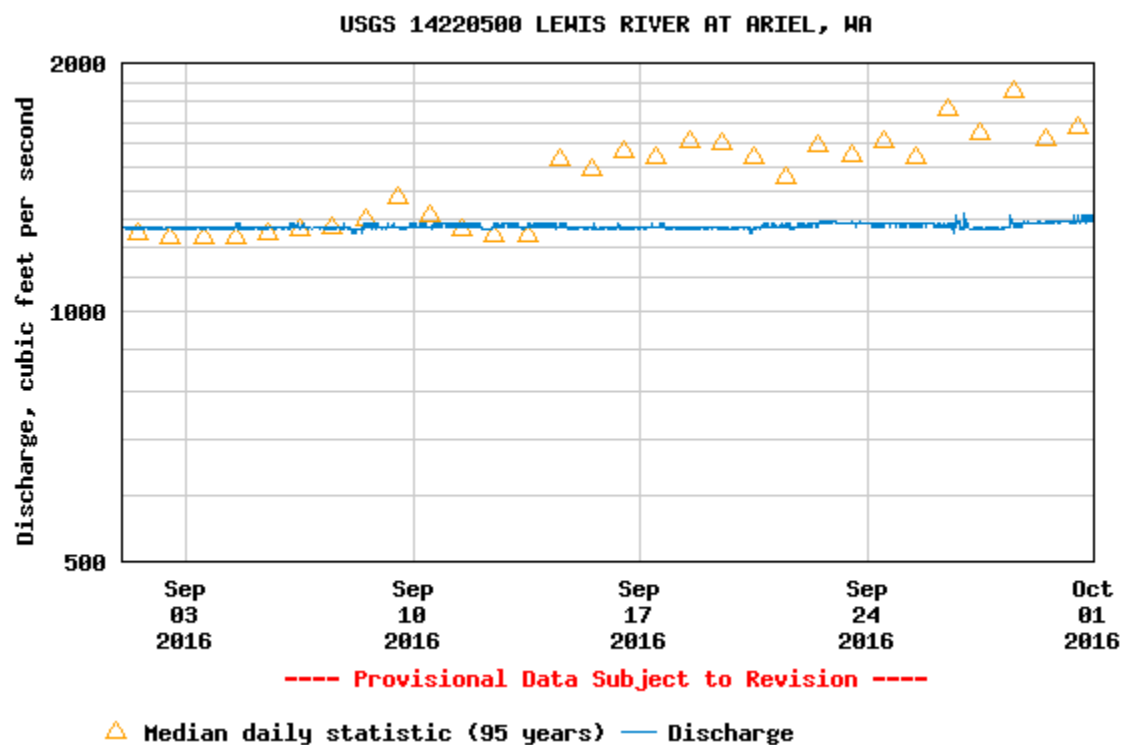
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Fish Facility Report

Merwin Adult Trap

September 2016

[illegible]

¹ Only hatchery versus wild distinctions are currently being made. All hatchery fish are labeled as "AD-Clip".

²Total counts do not include recaptured salmon.