

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

Date & Time: Thursday, May 8, 2014
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 & 4/10/14 Meeting Notes ➤ Comment & accept Agenda & 4/10/14 Meeting Notes
9:15 a.m.	Woodland Release Ponds; explore other options/alternatives for release pond or direct release strategy
10:00 a.m.	Study/Work Product Updates <ul style="list-style-type: none"> ○ Eulachon Consultation - Status ○ Woodland Release Ponds - Status ○ Hatchery Upgrades - Status ○ Hatchery and Supplementation Plan – Status ○ Acclimation Ponds - Status ○ Merwin Upstream Passage - Status ○ Swift Downstream Collector – Status ○ Future Fish Passage Facilities New Information – Status
10:15 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.	Adjourn

Join by Phone
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Conference ID: 5709805

FINAL Meeting Notes
Lewis River License Implementation
Aquatic Coordination Committee (ACC) Meeting
May 8, 2014
Conference Call

ACC Participants Present (8)

Kimberly McCune, PacifiCorp Energy
 Frank Shrier, PacifiCorp Energy
 Peggy Miller, WDFW
 Aaron Roberts, WDFW
 Eric Kinne, WDFW
 Pat Frazier, LCFRB
 Adam Haspiel, USDA Forest Service
 Diana Gritten-MacDonald, Cowlitz PUD

Calendar:

June 12, 2014	ACC Meeting	Merwin Hydro
July 10, 2014	ACC Meeting	Merwin Hydro

Assignments from May 8, 2014 meeting	
None	

Assignments from February 13, 2014 meeting	
Wills: Contact Cowlitz Indian Tribe Council and Yakama Nation Council to encourage them contacting NMFS regarding concern over lack of response regarding the Eulachon consultation.	Pending
Eric Kinne: Work on securing the 2012/2013 lower river coho abundance survey data and provide this information to Erik Lesko (PacifiCorp) for the 2013 H&S Annual Report. Lesko requires this data by February 28, 2014.	Pending – as of 5/8/14 data has not been received and will not be provided in the 2014 report

Opening, Review of Agenda and Meeting Notes

Frank Shrier (PacifiCorp) called the meeting to order at 9:05 a.m. and reviewed the agenda. The April 10, 2014 meeting notes were reviewed and approved without change at 9:10 a.m. Kimberly McCune (PacifiCorp) will finalize the April 10, 2014 meeting notes for posting to the Lewis River website.

Kim McCune (PacifiCorp) informed the ACC attendees that all parties were notified on April 21, 2014 ([Attachment A](#)) that the Mt. St. Helens Institute insurance request and contract extension were approved. Eric Kinne (WDFW) requested a correction that he was not in attendance during the decision making portion of the ACC meeting on April 10, 2014. While he does not object to

the decision, it's important to note that Aaron Roberts provided the decision as a representative of WDFW which is evidenced in the email to the ACC on April 21, 2014.

Woodland Release Ponds: explore other options/alternatives for release pond or direct release strategy

Kinne informed the ACC attendees that Pond 7 at the Lewis River Hatchery has been determined to be a fish friendly option. A 2" space bar rack screen will be needed to allow adults into the release structure. The pond can hold up to 50,000 fish in a day which will bridge the gap until the Woodland Release Ponds are available for use in 2015. Drawings and fabrication will be needed. WDFW will be working with Erik Lesko (PacifiCorp) to accomplish this task.

Aaron Roberts (WDFW) indicated that ingress/egress is not an issue. Currently it's a back in/pull out arrangement but soon it will be a drive through. Roberts also committed to WDFW handling the draining and filling of Pond 7 each day. The truck drivers will release and observe and note any mortality. It would be nice if we can have the needed Pond 7 modifications completed in a week.

The ACC attendees agreed with the plan to move forward with Pond 7 and to implement as quickly as possible.

Study/Work Product Updates

Eulachon Consultation

Todd Olson, Frank Shrier and Briana Weatherly (PacifiCorp) met with Jeff Fisher (NMFS) and provide an overview and orientation of tasks and needed involvement from NMFS. Michelle Day (NMFS) is currently working on the Eulachon BiOp. PacifiCorp is hoping to get something from NMFS soon; Fisher is pushing to get done as quickly as possible.

Input from NMFS will allow us to assess measures we have to implement for Woodland Release pond and Lewis River lower intake and will allow PacifiCorp to know where they stand, pin down a time frame, and produce a construction schedule for 2015. Construction ideas are being reviewed to reduce any perceived Eulachon take. Even though there is no take standard, NMFS has to treat it as if there is.

Hatchery and Supplementation (H&S) Program

No new updates.

Hatchery Upgrades

Two projects remain as part of Schedule 8.7 of the Settlement Agreement.

Speelyai Hatchery Intake Modifications: No new updates.

Merwin Hatchery PLC Ozone Upgrades No new updates.

Acclimation Pond/Muddy River

PacifiCorp did not put the 5,000 fish in the Muddy River site due to present dissolved oxygen (DO) conditions in the water.

PacifiCorp is reviewing a variety of ideas of how to address the water condition ([Attachment B](#)). Vegetation may help as a bio-swale but we can't rely on it to be effective in the near term. The topography is very flat so a re-route of water from the wetland would be difficult. Chemical treatment is possible but the least favored option without affecting the rest of the environment. Aeration is possible to keep oxygen levels up and reduce algae. Shrier is looking into testing this idea while the pond is still watered up. A generator can be used initially for testing and, if it seems workable, PacifiCorp would invest in solar aerators.

Adam Haspiel (USFS) expressed that when the contractor's pump – used during construction – was shut down the algae took over; he thinks it's mostly from ground water and doesn't think a reroute will solve the problem. He suggested abandoning the pond and installing a portable tank yet still using the infiltration gallery.

Shrier would like to try different things for 7-10 days before looking at abandoning the current pond since so much time and money went into getting the site up and running. PacifiCorp engineers are going up to look at it on May 9, 2014.

Roberts said that WDFW is looking at their resources as well to come up with a fix. In addition, WDFW can come up with aerators to help try the aeration process.

Acclimation Pond/Clear Creek

38,000 fish (½ placed in Pond and ½ in Creek); 20% of tagged fish have been detected leaving at the PIT tag antenna located in lower Clear Creek. We are not certain, based on last year's group, that the fish will leave the system right away. Some fish are tending to stay until the following year. Not seeing many so far at screw trap or Swift Collector. Some fish were observed moving in mass downstream. Hardly any mortality was observed in the Clear Creek pond and no sign of predation.

Merwin Upstream and Swift Downstream Collector Status

PacifiCorp provided the Lewis River Fish Passage Report to the ACC via email on May 6, 2014 (see [Attachment C](#)).

A total 526 (230 m: 296 f) winter steelhead having a Blank Wire Tag (BWT) were transported upstream during April 2014. Including these fish, a total 874 (362 m: 512 f) BWT steelhead have been transported and released into the headwaters of Swift Reservoir since late 2013. All other fish collected at the Merwin Sorting Facility in April were returned the river downstream of Merwin Dam or transported to a hatchery facility.

The Swift Downstream Collector went back into operation on March 31, 2014 after completion of Phase I of the Swift barrier net project. A total of 2,664 fish were collected during the month of April. The majority (53 percent) of these fish were coho fry (n=1,430), followed by coho smolts (n=744), Chinook smolts (n=175), cutthroat less than 13 inches (n=101), and steelhead smolts (n=65). One bull trout was collected and returned back to Swift Reservoir.

The FSC is operating at 600 cfs attraction flow.

Development of New Information to Inform Fish Passage

Kicking off next week for the 2014 season; will have final schedule very soon. The first draft of the annual report will be available for the June 2014 ACC meeting. Consultants noted that they detected two bull trout at Clear Creek; both went upstream and one came down in October 2013;

exhibiting spawning behavior. The research group is focusing on Clear Creek for a grad student's thesis looking very closely at the ecology of anadromous and resident fish. They also have a full year of temperature and flow data in almost every tributary (Swift tributaries on down).

<10:00 a.m. meeting adjourned >

Agenda items for June 12, 2014

- Review May 8, 2014 Meeting Notes
- Development of New Information to Inform Fish Passage, Dr. Robert Al-Chokhachy, Research Fisheries Biologist
- Study/Work Product Updates

Public Comment

None

Next Scheduled Meetings

June 12, 2014	July 10, 2014
Merwin Hydro Control Center	Merwin Hydro Control Center
Ariel, WA	Ariel, WA
9:00 a.m. – 11:00am	9:00 a.m. – 3:00pm

Meeting Handouts & Attachments

- Notes from 4/10/14
- Agenda from 5/8/14
- **Attachment A** – Email confirming ACC approval of MSHI insurance request and contract extension, dated April 21, 2014
- **Attachment B** – Muddy River Acclimation Pond Photos, April 2014
- **Attachment C** - Lewis River Fish Passage Report, April 2014

McCune, Kimberly

From: McCune, Kimberly
Sent: Monday, April 21, 2014 8:48 AM
To: (Aaron.roberts@dfw.wa.gov); (michael_hudson@fws.gov); (Timothy_Whitesel@fws.gov); 'Adam Haspiel (ahaspiel@fs.fed.us)'; 'Bart Stepp'; 'Bob Rose (rosb@yakamafish-nsn.gov)'; 'Bryan Nordlund'; cser461@ECY.WA.GOV; 'Diana MacDonald'; Doyle, Jeremiah; Eli Asher (easher@cowlitz.org); 'Eric Kinne'; Ferraiolo, Mark; Fish First (j.malinowski@ieee.org); gghalseth@gmail.com; James H Malinowski (jim.malinowski@icloud.com); 'Jeff Breckel'; Karchesky, Chris; Karen Adams; 'Kathryn Miller (kmiller@tu.org)'; Ken Weiman (kwieman@fs.fed.us); Lesko, Erik; 'LouEllyn Jones'; 'Mariah Stoll-Smith Reese (M.Reese@tds.net)'; 'Maynard, Chris (ECY)'; 'Melody Tereski'; 'Michelle Day'; Olson, Todd; Pam Johnson (johnson@co.skamania.wa.us); Patrick Frazier (pfrazier@lcfwb.gen.wa.us); 'Patrick Lee'; Peggy Miller; 'Rhidian Morgan (rmmorgan@plasnewydd.org)'; 'Ruth Tracy'; Samagaio, James; 'Shannon Wills'; Shrier, Frank; 'Taylor Aalvik (taalvik@cowlitz.org)'; Weatherly, Briana
Cc: Abi Groskopf (agroskopf@mshinstitute.org)
Subject: RE: Lewis River 2013 Aquatics Fund -MSHI 2015/2016 Insurance Requirements; 7-day comment period (COMPLETE)

Attn: ACC Participants

Please note that I overlooked an email from LouEllyn Jones (USFWS) indicating her approval on April 10, 2014. I have included her response below for the record.

Thank you.

ACC Representative	Decision to use Aquatic Fund for 2015/2016 MSHI additional insurance expense for the above-referenced 2013 Aquatic Fund Projects and to extend the agreement to 12/31/2016 (NTE \$3,400): Yes or No
LouEllyn Jones, USFWS	Yes

Kim

From: McCune, Kimberly
Sent: Monday, April 21, 2014 8:12 AM
To: (Aaron.roberts@dfw.wa.gov); (michael_hudson@fws.gov); (Timothy_Whitesel@fws.gov); 'Adam Haspiel (ahaspiel@fs.fed.us)'; 'Bart Stepp'; 'Bob Rose (rosb@yakamafish-nsn.gov)'; 'Bryan Nordlund'; cser461@ECY.WA.GOV; 'Diana MacDonald'; Doyle, Jeremiah; Eli Asher (easher@cowlitz.org); 'Eric Kinne'; Ferraiolo, Mark; Fish First (j.malinowski@ieee.org); gghalseth@gmail.com; James H Malinowski (jim.malinowski@icloud.com); 'Jeff Breckel'; Karchesky, Chris; Karen Adams; 'Kathryn Miller (kmiller@tu.org)'; Ken Weiman (kwieman@fs.fed.us); Lesko, Erik; 'LouEllyn Jones'; 'Mariah Stoll-Smith Reese (M.Reese@tds.net)'; 'Maynard, Chris (ECY)'; 'Melody Tereski'; 'Michelle Day'; Olson, Todd; Pam Johnson (johnson@co.skamania.wa.us); Patrick Frazier (pfrazier@lcfwb.gen.wa.us); 'Patrick Lee'; Peggy Miller; 'Rhidian Morgan (rmmorgan@plasnewydd.org)'; 'Ruth Tracy'; Samagaio, James; 'Shannon Wills'; Shrier, Frank; 'Taylor Aalvik (taalvik@cowlitz.org)'; Weatherly, Briana
Cc: Abi Groskopf (agroskopf@mshinstitute.org)
Subject: Lewis River 2013 Aquatics Fund -MSHI 2015/2016 Insurance Requirements; 7-day comment period (COMPLETE)

Attn: ACC Participants

Please be advised that PacifiCorp did not receive any additional comment during the 7-day comment period. The decision referenced below is now considered final. I will proceed with notifying MSHI and extending the contract as requested.

Mt. Saint Helens Institute (MSHI) requested a contract extension to 12/31/2016 and payment of the 2015/2016 insurance expense from ACC funds for an amount not-to-exceed (NTE) \$3,400 for the Bull Trout Restoration ID Assessment project.

Thank you.

K. McCune

From: McCune, Kimberly

Sent: Thursday, April 10, 2014 2:42 PM

To: (Aaron.roberts@dfw.wa.gov); (michael_hudson@fws.gov); (Timothy_Whitesel@fws.gov); 'Adam Haspiel (ahaspiel@fs.fed.us)'; 'Bart Stepp'; 'Bob Rose (rosb@yakamafish-nsn.gov)'; 'Bryan Nordlund'; cser461@ECY.WA.GOV; 'Diana MacDonald'; Doyle, Jeremiah; Eli Asher (easher@cowlitz.org); 'Eric Kinne'; Ferraiolo, Mark; Fish First (j.malinowski@ieee.org); gghalseth@gmail.com; James H Malinowski (jim.malinowski@icloud.com); 'Jeff Breckel'; Karchesky, Chris; Karen Adams; 'Kathryn Miller (kmiller@tu.org)'; Ken Weiman (kwieman@fs.fed.us); Lesko, Erik; 'LouEllyn Jones'; 'Mariah Stoll-Smith Reese (M.Reese@tds.net)'; 'Maynard, Chris (ECY)'; 'Melody Tereski'; 'Michelle Day'; Olson, Todd; Pam Johnson (johnson@co.skamania.wa.us); Patrick Frazier (pfrazier@lcfwb.gen.wa.us); 'Patrick Lee'; Peggy Miller; 'Rhidian Morgan (rmmorgan@plasnewydd.org)'; 'Ruth Tracy'; Samagaio, James; 'Shannon Wills'; Shrier, Frank; 'Taylor Aalvik (taalvik@cowlitz.org)'; Weatherly, Briana

Cc: Abi Groskopf (agroskopf@mshinstitute.org)

Subject: RE: DECISION REQUESTED: Lewis River 2013 Aquatics Fund -MSHI 2015/2016 Insurance Requirements; 7-day comment period

Attn: ACC Participants

In accordance with the ACC meeting today the decisions rendered by the ACC is as follows:

Mt. Saint Helens Institute (MSHI) requested a contract extension to 12/31/2016 and payment of the 2015/2016 insurance expense from ACC funds for an amount not-to-exceed (NTE) \$3,400 for the Bull Trout Restoration ID Assessment project.

ACC Representative	Decision to use Aquatic Fund for 2015/2016 MSHI additional insurance expense for the above-referenced 2013 Aquatic Fund Projects and to extend the agreement to 12/31/2016 (NTE \$3,400): Yes or No
Frank Shrier, PacifiCorp Energy	Yes
Adam Haspiel, USFS	Yes
Eric Kinne, WDFW	Yes
Aaron Roberts, WDFW	Yes
Pat Frazier, LCFRB	Yes
Diana Gritten-MacDonald, Cowlitz PUD	No – but will not block the decision to move forward

Jim Malinowski, Fish First	No – but will not block the decision to move forward
Shannon Wills, Cowlitz Indian Tribe	Yes

Those ACC representatives not in attendance have seven (7) days to provide a response/decision **on or before Friday, April 18, 2014 by close of business.**

After the 7-day comment period the ACC decisions will be considered final and McCune will proceed with notifying MSHI.

MSHI reported via email on March 21, 2014 that all project partners of the above-referenced project decided that the project needs to be extended for an additional year. The extension request is due to incomplete surveying as a result of the government shutdown in October 2013 and to high stream flows in late September. MSHI also reported on April 8, 2014 that the following work has been completed thus far:

Bull trout bibliography and collection of existing data (in-kind, MSHI)

Temperature hobo’s deployed (in-kind, MSHI and USFS)

- o Pine Creek, P-8, and below their confluence (3 units)
- o Little Creek (2)
- o Crab Creek (2)
- o Drift Creek (2)
- o Bean Creek (2)
- o Rush Creek (3)
- o Spencer Creek (1)
- o Upper Muddy River (1)
- o Clearwater Creek (1)
- o Swift Creek (1)
- o Clear Creek (1)
- o Elk Creek (1)

USFS Level III Stream Surveys (in-kind, USFS)

- o 20 miles of stream surveyed

Snorkel survey design (WDFW)

Snorkel surveys started (MSHI)

- o 12 days of surveying
- o Just over 1 rotation of approximately 25 miles
- o Weather conditions and government shutdown. Too much time elapsed to continue surveying.
- o No redds found, adults found including in Big Creek

Habitat and snorkel survey design planning (WDFW) (to be completed and implemented in 2014)

Thank you.

Kimberly McCune
Sr. Project Coordinator









Lewis River Fish Passage Report

April 2014

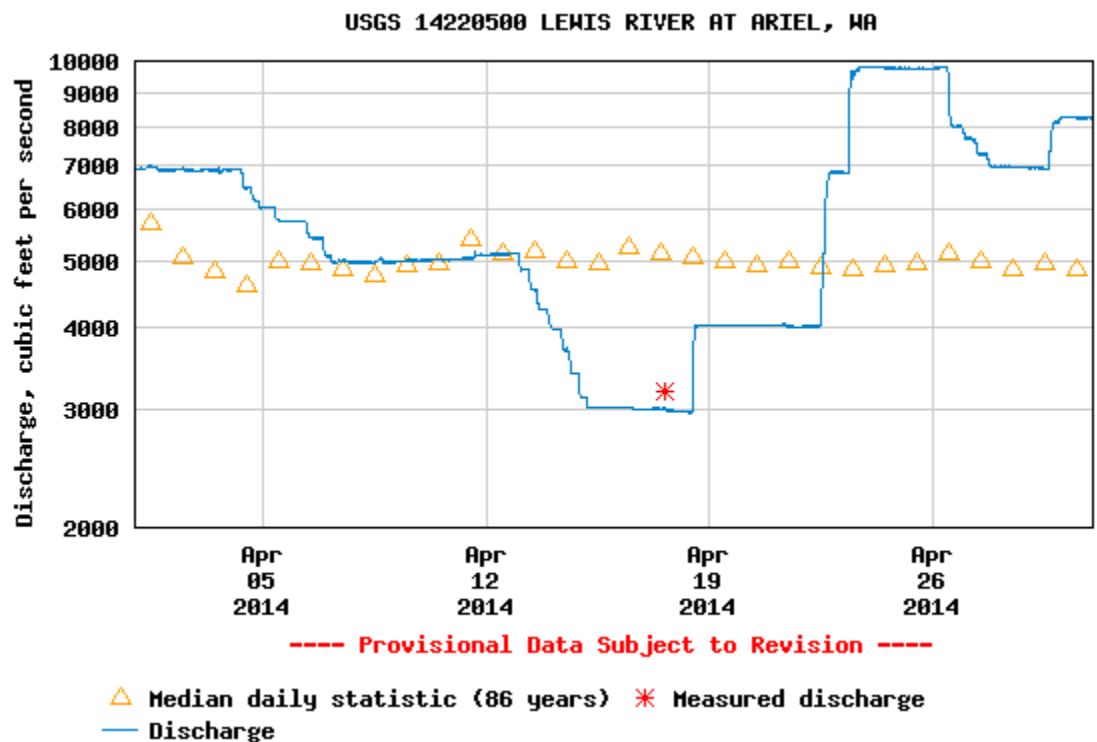
Merwin Sorting Facility Fish Collection and General Operations

The Merwin Sorting Facility continued to operate daily through April 2014. During that period, a total 721 fish were captured; the majority (75%) of these fish were winter steelhead (n = 543). The first spring Chinook was collect on April 1st, and by the end of the month a total of 132 had been captured. Other species collected in April included summer steelhead (n=15), resident rainbow trout (n = 17), cutthroat trout (n = 2), whitefish (n=7), and largescale sucker (n = 5).

The Auxiliary Water Supply (AWS) system, which boosts attraction flow to 400 cfs, was operated intermittently as testing of the system required it to be shut-off periodically during the month of April. The 30 cfs Ladder Water Supply (LWS) system continued to operate throughout the month.

River flow at Merwin Dam fluctuated approximately 2,990 cubic feet per second (cfs) to 9,850 cfs throughout the month of April. No spill events occur in April.

Discharge, cubic feet per second



Upstream Transport

A total 526 (230 m: 296 f) winter steelhead having a Blank Wire Tag (BWT) were transported upstream during April 2014. Including these fish, a total 874 (362 m: 512 f) BWT steelhead have been transported and released into the headwaters of Swift Reservoir since late 2013. All other fish collected at the Merwin Sorting Facility in April were returned the river downstream of Merwin Dam or transported to a hatchery facility.

Swift Floating Surface Collector

The FSC went back into operation on March 31, 2014 after completion of Phase I of the Swift barrier net project. A total of 2,664 fish were collected during the month of April. The majority (53 percent) of these fish were coho fry (n=1,430), followed by coho smolts (n=744), Chinook smolts (n=175), cutthroat less than 13 inches (n=101), and steelhead smolts (n=65). One bull trout was collected and returned back to Swift Reservoir.

The FSC is operating at 600 cfs attraction flow.

Fish Facility Report
Swift Floating Surface Collector
April 2014

Day	Coho		Chinook		Steelhead			Cutthroat			Bull Trout			Planted Rainbow
	fry	smolt	fry	smolt	fry	smolt	kelt	fry	< 13 in	> 13 in	fry	< 13 in	> 13 in	
01	250	4		4					2					1
02	25	10		5										2
03	75	15		5					2					1
04	75	7		3					4					4
05	50	8		3		1			1					3
06	75	1		4										1
07	50	15		1					4					3
08														0
09	50	24		20		2			2					4
10	40	25		7					1					6
11	25	5		7		1			5					4
12	25	8		5					2					5
13	30	12		4		2			4					4
14	40	6		4		2								4
15	40	12		13										8
16	25	28		16		3								1
17	40			12					3					5
18	40	9		3										12
19	50	72		6		3			4					16
20	75	20		12		4			1					7
21	30	27		1		7			1					5
22	100	7		4		1			2					7
23	30	15		4		1			2					5
24	50	19		3										3
25	30	55		4		5			5					8
26	25	73		1		5			9					4
27	20	37		2		2			8					4
28	15	25		9		6			6					4
29	20	134		7		13			16	1			1	8
30	30	71		6		7			17					8

Monthly	1430	744	0	175	0	65	0	0	101	1	0	0	1	147
Annual	1430	744	0	175	0	65	0	0	101	1	0	0	1	147

The FSC continued to operated on 4/8, however fish were not processed because no fish-transport truck was available.

No adult steelhead (kelts) were collected.

All coho, Chinook and steelhead smolts and cutthroat were transported downstream.

All fry, bull trout, and planted rainbow were returned to Swift Reservoir.



Monday, May 5th, 2014