

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

**Date & Time:** Thursday, May 11, 2017  
9:00 a.m. – 11:30 a.m.

**Place:** Merwin Hydro Control Center  
105 Merwin Village Court  
Ariel, WA 98603

**Contacts:** Frank Shrier: (503) 320-7423

<b>Time</b>	<b>Discussion Item</b>
9:00 a.m.	Welcome <ul style="list-style-type: none"> <li>➤ Review Agenda and ACC 4/13/16 Meeting Notes</li> <li>➤ Comment &amp; Accept Agenda and 4/13/16 Meeting Notes</li> </ul>
9:10 a.m.	Public Comment Opportunity
9:20 a.m.	50,900 Integrated Spring Chinook; what to do with extra 20,000
10:00 a.m.	Discuss Aquatic Fund criteria for future proposals
11:00 a.m.	Study/Work Product Updates <ul style="list-style-type: none"> <li>○ H&amp;S Plan Update</li> <li>○ In Lieu Workgroup Update</li> <li>○ Woodland Release Ponds Construction - Status</li> <li>○ Acclimation Ponds - Status</li> <li>○ Merwin Upstream Passage – Status</li> <li>○ Swift Floating Surface Collector – Status</li> </ul>
11:15 a.m.	<ul style="list-style-type: none"> <li>➤ Next Meeting’s Agenda</li> <li>➤ Public Comment Opportunity</li> </ul> Note: all meeting notes and the meeting schedule can be located at: <a href="http://www.pacificorp.com/es/hydro/hl/lr.html#">http://www.pacificorp.com/es/hydro/hl/lr.html#</a>
<b>11:30 a.m.</b>	<b>Adjourn</b>

Join by Phone  
 +1 (503) 813-5252 [Portland, Ore.]  
 +1 (855) 499-5252 [Toll Free]

**Conference ID: 2506249**

**FINAL Meeting Notes**  
**Lewis River License Implementation**  
**Aquatic Coordination Committee (ACC) Meeting**  
**May 11, 2017**  
**Merwin Hydro Control Center**  
**Ariel, WA**

**ACC Participants Present (14)**

Frank Shrier, PacifiCorp  
 Kim McCune, PacifiCorp  
 Chris Karchesky, PacifiCorp  
 Todd Olson, PacifiCorp  
 Amanda Froberg, Cowlitz PUD  
 Eli Asher, Cowlitz Indian Tribe  
 Peggy Miller, WDFW  
 Pat Frazier, WDFW (via phone)  
 Aaron Roberts, WDFW  
 Ruth Tracy, USDA Forest Service  
 Bryce Michaelis, USDA Forest Service  
 Michelle Day, NMFS  
 Steve Manlow, LCFRB  
 Amelia Johnson, LCFRB

**Guests (1)**

Al Thomas, Columbian

**Calendar:**

June 8, 2017	ACC Meeting	Merwin Hydro
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Assignments from May 11, 2017	Status
Karchesky: Provide a Fall integrated Spring Chinook distribution plan to the ACC in September 2017.	<b>Pending</b>
McCune – Email ACC AQ Fund pre-proposal, full proposal and evaluation criteria to ACC for review and edits. Provide two week review period.	<b>Complete – 5/16/17</b>

Assignments from April 13, 2017	Status
Shrier: Research rationale of fish release and report to the ACC at the May 11, 2017 meeting.	<b>Complete – 5/11/17</b>
Asher: Provide SRFB and BOR funding process documents to the ACC for their review.	<b>Complete – 5/9/17</b>
Shrier: Provide map of priority reaches map to the ACC.	<b>Complete – 5/1/17</b>
Frazier: Revisit Spring Chinook language in the Aquatic Fund process document and report to the ACC.	<b>Pending</b>
Karchesky: Provide preliminary results of 2017 Merwin Adult Trap Efficiency for Winter Steelhead - report to ACC during July meeting.	

Shrier/McCune: Review Aquatic Fund budget, current spending average and when fund will run out of money; report to the ACC.	<b>Complete – 5/1/17</b>
McCune: Email Aquatic Fund 2016/2017 application to Frazier.	<b>Complete – 4/13/17</b>

### **Opening, Review of Agenda and Meeting Notes**

Frank Shrier (PacifiCorp) called the meeting to order at 9:10 a.m. and reviewed the agenda. No agenda additions were requested.

Shrier also reviewed the April 13, 2017 meeting notes and assignments. The meeting notes were approved at 9:15 a.m. without changes.

### **Public Comment**

None

### **50,000 Integrated Spring Chinook; what to do with the extra 20,000**

Chris Karchesky (PacifiCorp) informed the ACC attendees that PacifiCorp is planning on a late September to early October release of these fish, the question is where to release? The current tributary flows are expected to be average or a bit above in the September/October 2017 time period.

The group discussed the various release options including directly into Swift reservoir, downstream of Merwin and into upper Lewis River tributaries. Program intent is to imprint the smolts to the upper basin. Although past monitoring demonstrates that these fish may move quickly downstream into Swift reservoir following direct release into the upper tributaries, they should still imprint to upstream of Swift water. Accordingly, the release into upper tributaries seemed most appropriate. PacifiCorp will target an October 1, 2017 release and provide a release-site distribution plan to the ACC in September 2017.

**The ACC agreed to release all 50,000+ integrated Spring Chinook juveniles upstream with a target release of October 1, 2017.** (See April 14, 2017 email handout; Acclimation Fish Numbers to address the ACC decision rationale).

### **Discuss Aquatic Fund Criteria for Future Proposals**

The ACC discussed a variety of other project selection processes and their published guidelines. All agreed not to modify the Pre-proposal application with the exception of notifying applicants that should their project be selected, they will need to provide TBD information and drawings. For the Full-proposal, the ACC is considering the following to ID the gaps in the Lewis River Aquatic Fund Criteria:

- Appendix D of Manual 18 (2009) calls out levels of design expected at various stages specific to a funding process.
- Design requirements for \$250,000+ projects?
- Risks of structure not staying and moving.
- Did sponsor use sound engineering?
- Infrastructure and human safety risks.
- Point proposers to specific document/resources.

During the review process, if evaluator has questions or additional information needs, they need to provide written request so that project proponents can appropriately respond. ACC members should submit the evaluation scoring matrix and supporting comments.

The ACC discussed the following basic items for inclusion into the Lewis River Aquatic Fund pre-proposal:

- How does project address limiting factors?
- What is likelihood of success (engineering & outcome)?
- List of projects completed.
- Conceptual design.
- If you are selected you will be asked to provide.....

The ACC discussed the following basic items for inclusion into the Lewis River Aquatic Fund full proposal:

- 30% design level.
- What is basis of design report?
- Add checklist of references.
- Flows regime considered (High water expectation).
- Scour depth, if appropriate.

The ACC agreed that when reviewing guidelines from other resources the focus should be on the 2009 WDFW – Technical Applications Division publication and Appendix D to Manual 18.

PacifiCorp also provided two maps illustrating the Lewis River Phase 1 upper and lower priority reaches ([Attachment A](#)).

These questions will be addressed at future ACC meetings and will be considered for incorporation into the requirements for future proposed instream structures.

## **Study/Work Product Updates**

### **H&S Plan Update**

No new update

### **Woodland Release Ponds/Construction Update**

Pre-construction meeting week of May 15, 2017.

### **Acclimation Ponds Update**

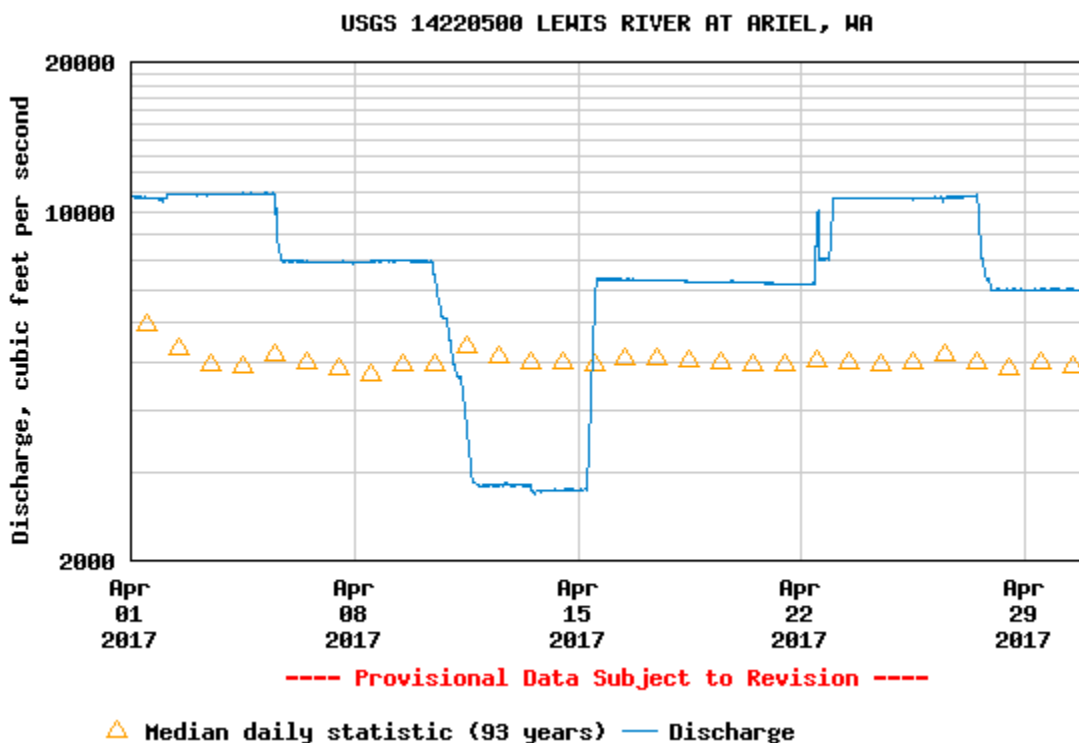
A tour to the pond sites has been scheduled for the June 8, 2017 ACC meeting.

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

Karchesky (PacifiCorp) provided a summary of Merwin Collection Facility. During the month of April, a total 860 fish were captured at the Merwin Adult Fish Collection Facility. The majority of these fish were adult winter steelhead (551 - 64%) of both hatchery and wild (NOR and Blank Wire Tag) origin and spring Chinook (290 – 33%). All hatchery fish were given to Washington Department of Fish and Wildlife. Five coastal cutthroat greater than 13-inches were also captured this month. A total of 332 spring Chinook have been captured at the Merwin Trap through April 2017.

The Merwin Dam adult fish trap ran continuously through the month of April. River flow downstream of Merwin Dam fluctuated between 2,850 and 10,900 cfs throughout the month.

### Discharge, cubic feet per second



### Upstream Transport ([Attachment B](#))

Karchesky (PacifiCorp) provided a summary of upstream transport. A total of 345 Blank Wire Tag (BWT) adult winter steelhead were transported upstream of Swift Dam in April 2016. These fish combined for a total of 546 BWT winter steelhead transported as part of the 2017 run year. One hundred forty-five BTWs have been radio tagged and released back downstream so far as part of the Merwin Adult Trap Efficiency (ATE) Evaluation, which began February 16, 2017. Seventy-nine of these fish had been recaptured and transported upstream by the end of April. Twelve coastal cutthroat trout have been transported upstream in 2017.

2017 Late-Winter Steelhead (BWTs) (thru April 2017)

Male	Female	Total
305	241	546

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

Karchesky (PacifiCorp) provided a brief overview of the Swift Floating Surface Collector operations. During the month of April, nearly 3,000 fish were collected at the Swift FSC. Except for bull trout and planted rainbows, all fishes (and life-stages) were transported downstream. Surface water temperatures in Swift Reservoir remained low through the month of April and ranged typically between 5 and 6° C. The Swift FSC ran continuously throughout the month of April.

## Other

It was noted by PacifiCorp and WDFW that spring Chinook collection was much better than past years and there should be some fish available for upstream transport. It was noted that once WDFW reaches their adult spring Chinook broodstock needs (estimated at 1,100 adults) the remainder of the hatchery fish can be transported upstream. Coded wire tagged fish will be retained at the hatchery. All wild fish in excess of acclimation brood stock will be transported upstream.

**Spring Chinook Adults** – Returns to date appear to be on track for meeting acclimation program goal. See detailed handout, Acclimation Fish Numbers, April 14, 2017.

*Meeting adjourned 11:30am*

## Agenda items for June 8, 2017

- May 11, 2017 Meeting Notes
- Tour Acclimation Pond Sites
- Study/Work Product Update

## Next Scheduled Meeting:

June 8, 2017
Merwin Hydro Control Center
Ariel, WA
9:00 a.m. - 11:30 p.m.

## Meeting Handouts & Attachments:

- Meeting Notes from 4/13/17
- Agenda from 5/11/17
- Frank Shrier - April 14, 2017 email; Acclimation fish numbers
- **Attachment A** – Lewis River Upper and Lower Phase 1 Aquatic Fund Priority Reaches Maps
- **Attachment B** - Lewis River Fish Passage Report (April 2017)

## Citation

Washington Department of Fish and Wildlife. 2009 (Appendix D). Fish Passage and Surface Water Diversion Screening Assessment and Prioritization Manual. Washington Department of Fish and Wildlife. Olympia, Washington.

## McCune, Kimberly

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**From:** Shrier, Frank  
**Sent:** Friday, April 14, 2017 2:40 PM  
**To:** McCune, Kimberly  
**Subject:** Acclimation fish numbers

The following is copied from the January 2017 notes in answer to the question about how numbers were assigned to the smaller spring Chinook outplanting number:

### **Acclimation Fish: Discuss Plans for 2017**

Erik Lesko (PacifiCorp) informed the attendees we should have 1.35M Spring chinook but we have only 430,000 on site now. The target is as follows:

- Hatchery target: 1,250,000
- Acclimation fish: 100,000

Lesko asked the ACC attendees if we want to take a portion to release upstream for acclimation or take all 430,000 and release them below the dam.

Tagging takes place in May so a decision is needed before May 2017. The ACC attendees discussed the following available options:

- Option 1 - 30,000 going into acclimation areas at the designated sites (Muddy River, Lewis River at Crab Creek and Clear Creek)
- Option 2 - Release 30,000 into lower river; not tag/not clip and release as wild fish in Fall 2017
- Option 3 – Clip and keep in with HOR group.
- Option 4 – Similar proportion of upstream target applies same to current numbers of fish. Proportion is 8%

We have improved capture efficiency at the collector (doubled it) due to the guide nets and hopefully we keep bumping up the collection numbers.

The residual Spring chinook are spawning (land locked salmon) and have produced 800 wild smolts. Different kind of production we did not expect. Won't know for a couple of years until the adults come back how successful they might be. PacifiCorp would like the ACC to think about it and what to do with them. We'll make a decision at the next ACC meeting

Pat Frazier (WDFW) expressed that we could maximize broodstock; release all straight out of the hatchery; do not take to the acclimation ponds. Not acclimate until we start receiving brood stock numbers needed.

If we choose to release downstream should we tag or untagged? If we use untagged as broodstock on the return then they would be mistaken as NORs and would be used for acclimation brood stock

PacifiCorp is meeting with WDFW and Tacoma PUD to address strategies of how we can improve brood stock production.

The 2015 Spring and Fall releases were 157,000; transported 5,000 juvenile Spring chinook down river.

The 2016 Spring and Fall release was 30,000; only collected 3,000 Spring chinook at the collector.

If we suspend 2017 acclimation we would not have acclimation until 2018 or later. Olson expressed that PacifiCorp would likely file a notice with the Commission if the Utilities suspend 2017 acclimation.



**McCune, Kimberly**

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**From:** McCune, Kimberly  
**Sent:** Monday, May 01, 2017 9:43 AM  
**To:** Amanda Froberg; Amelia Johnson; Asher, Eli; 'Bob Rose (rosb@yakamafish-nsn.gov)'; Bryce Glaser; Bryce Michaelis; David Howe; Doyle, Jeremiah; Ed Meyer; Ferraiolo, Mark; Fish First (j.malinowski@ieee.org); Frazier, Patrick A (DFW); Greg Robertson; Hudson, Michael; James Byrne; James H Malinowski; 'Kale Bentley'; Karchesky, Chris; Kelley Jorgensen; Lesko, Erik; Mariah Stoll-Smith Reese; Mark Celedonia; 'Melody Tereski'; 'Michelle Day'; Mike Bonoff; Morgan, David; Nathan Reynolds; Olson, Todd; 'Patrick Lee'; Peggy Miller; Pete Barber (pbarber@cowlitz.org); Pienovi, Levi; Rhidian Morgan (rmmorgan@pnfarm.com); Roberts, Aaron; 'Ruth Tracy'; Samuel Kolb; Serdar Carol; Shrier, Frank; Steve Manlow; Taylor Aalvik (taylor.a@cowlitz.org); Weatherly, Briana; Whitesel, Timothy  
**Subject:** Master Lewis R Aq Fund Priority Reaches - no bull trout reaches (4).xlsx  
**Attachments:** Phase 1 Lower Priority Sites.pdf; Phase 1 Upper Priority Sites.pdf

Assignments from April 13, 2017	Status
Shrier: Provide map of priority reaches to the ACC.	<b>Complete – 5/1/17</b>

Attn: ACC Participants

Please find attached the maps requested which fulfills the above-referenced assignment.

Thank you.

**Kimberly McCune**  
Sr. Business Administrator  
PacifiCorp – Hydro Resources  
825 NE Multnomah St., Suite 1500  
Portland, OR 97232  
Ph: (503) 813-6078





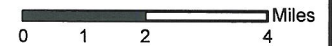
**Phase 1 Lower  
Lewis River  
Priority Sites**

 **Phase 1 Priority Sites**

 **All Reaches**

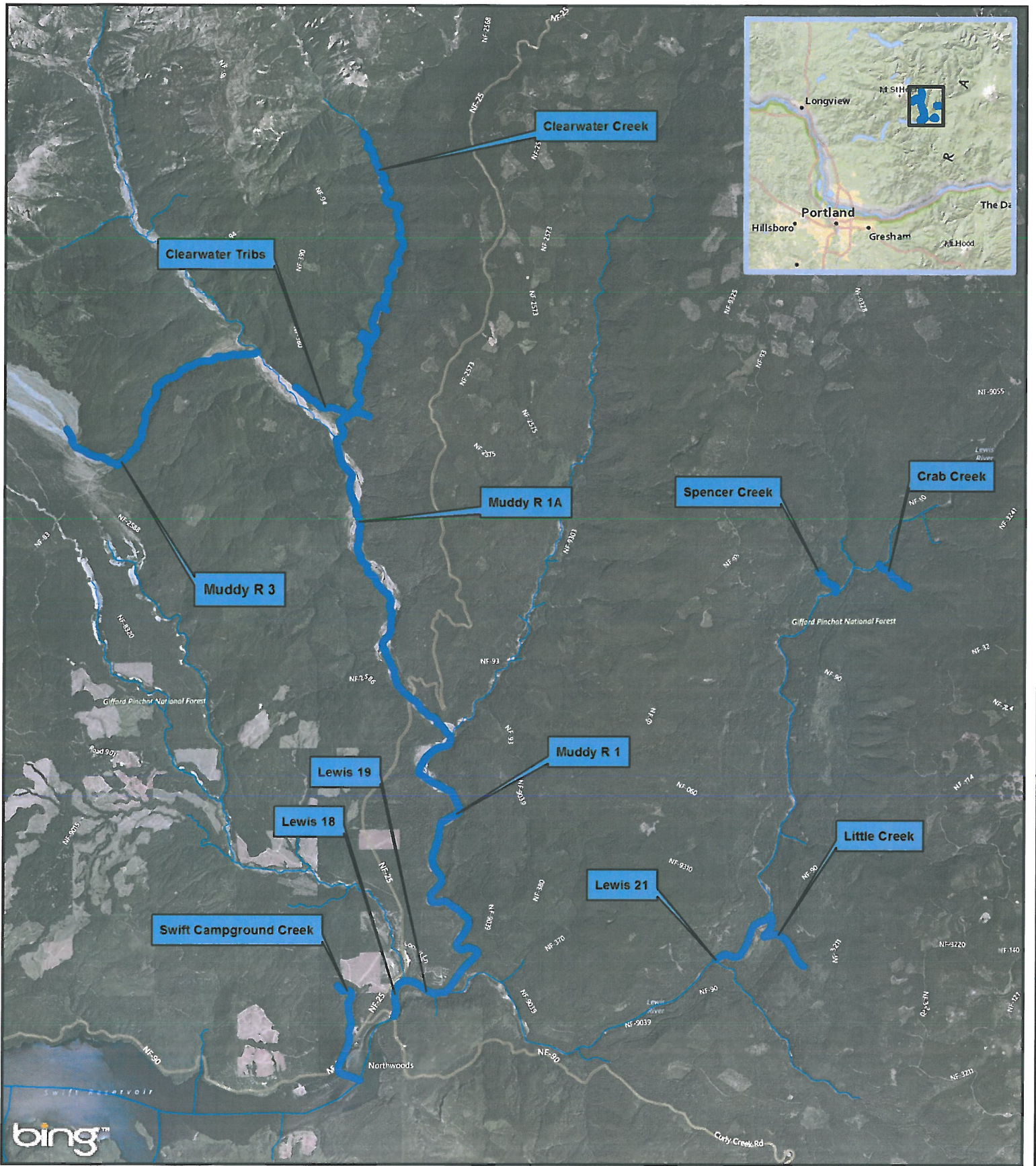


Source: Aerial imagery from Microsoft Bing, all other data from MB&G. Reproduced for informational purposes and may not be suitable for legal, engineering or surveying purposes. Conclusions drawn from such information are the responsibility of the user.





Phase 1 Lower Priority Sites, 4/17/2017





**Phase 1 Upper  
Lewis River  
Priority Sites**



-  Phase 1 Priority Sites
-  All Reaches



Source: Aerial imagery from Microsoft Bing, tributaries from EDT\_Reach, all other data from MB&G. Reproduced for informational purposes and may not be suitable for legal, engineering or surveying purposes. Conclusions drawn from such information are the responsibility of the user.



# Lewis River Fish Passage Report

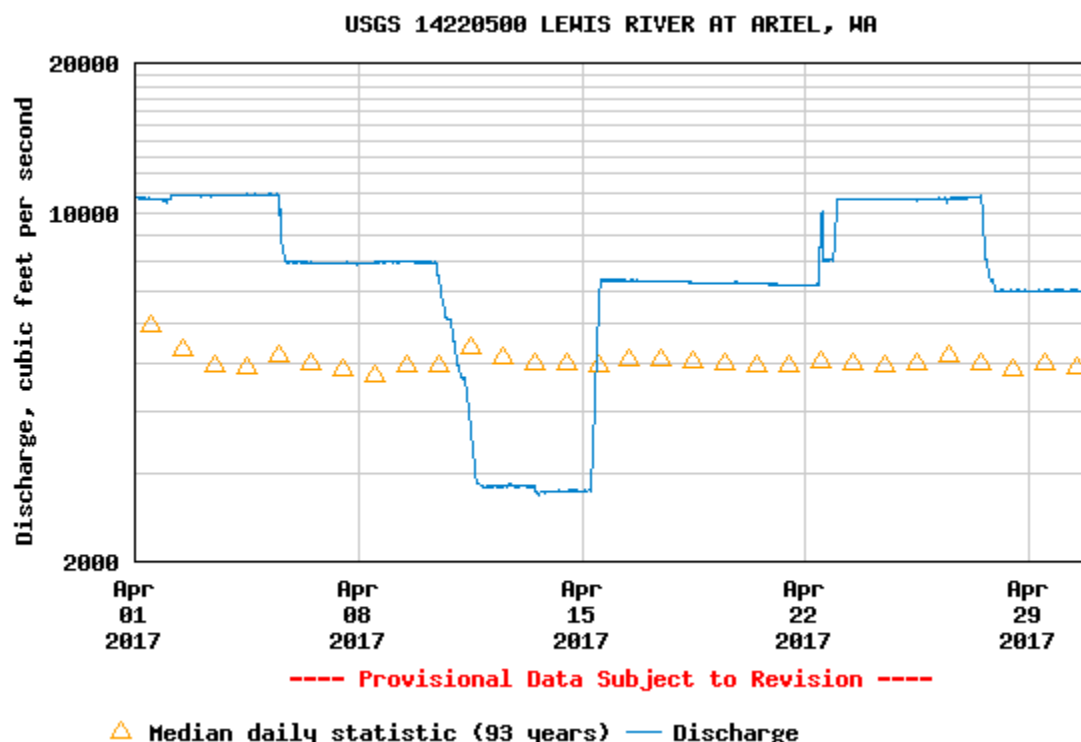
## April 2017

### Merwin Fish Collection Facility and General Operations

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**Fish Facility Report**  
**Swift Floating Surface Collector**  
**April 2017**

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			
01	4	11	14	0	4	10	0	2	0	0	6	0	0	0	57	108
02	0	4	5	0	0	7	0	1	0	1	0	1	3	0	38	60
03	0	4	4	0	1	15	0	0	0	0	0	0	3	0	60	87
04	50	17	10	0	0	48	0	3	1	0	0	5	0	0	38	172
05	80	6	7	0	0	16	0	0	1	0	0	1	0	0	24	135
06	80	6	11	0	0	11	0	2	4	0	0	3	0	0	18	135
07	55	8	2	0	0	3	0	2	1	0	0	2	0	0	13	86
08	11	1	1	0	0	1	0	0	0	0	0	2	0	0	4	20
09	8	1	2	0	0	4	0	0	0	0	0	1	0	0	6	22
10	6	6	6	0	0	3	0	1	1	0	0	2	0	0	18	43
11	25	7	5	0	0	1	0	1	0	0	0	0	0	0	15	54
12	20	7	2	0	0	13	0	1	2	0	0	0	0	0	24	69
13	20	9	1	0	0	4	0	0	1	0	0	3	0	0	7	45
14	5	1	4	0	0	4	0	2	2	0	0	3	0	0	11	32
15	12	1	5	0	0	17	0	2	0	0	0	2	0	0	61	100
16	9	3	4	0	0	6	0	0	0	0	0	0	0	0	37	59
17	14	5	13	0	7	0	0	0	13	0	0	3	0	0	64	119
18	11	7	14	0	0	0	0	0	17	0	0	1	0	0	50	100
19	11	8	13	0	0	14	0	0	21	0	0	0	0	0	88	155
20	16	3	8	0	0	30	0	0	3	0	0	2	0	0	67	129
21	0	2	16	0	1	22	0	1	5	0	0	0	0	0	70	117
22	20	23	30	0	0	8	0	0	34	0	0	1	0	0	95	211
23	0	3	1	0	5	7	0	1	4	0	0	0	0	0	50	71
24	5	2	15	0	0	6	0	0	7	0	0	0	0	0	47	82
25	1	2	7	0	0	10	0	0	7	0	0	0	0	0	29	56
26	0	1	2	0	0	0	0	0	1	0	0	0	0	0	2	6
27	5	0	19	0	0	9	0	0	10	0	0	1	0	0	51	95
28	5	0	16	0	0	17	0	0	8	0	0	4	0	0	42	92
29	14	5	11	0	0	23	0	0	47	0	0	3	0	0	42	145
30	8	2	4	0	0	13	0	0	10	0	0	0	0	0	20	57

<b>Monthly</b>	495	155	252	0	18	322	0	19	200	1	6	40	6	0	1148	2662
<b>Total</b>	3144	449	661	0	41	485	0	33	250	1	11	87	8	4	1517	6691

