Lewis River Hydroelectric Projects
Terrestrial Coordination Committee (TCC)
Meeting Agenda

Date & Time: Wednesday, April 11, 2018
9:00 a.m. – 3:00 p.m.

Place: Woodland Park and Ride
900 Goerig St.
Woodland, WA 98674
(No restrooms available at this site. Please plan accordingly.)

Contacts: Kendel Emmerson (503) 813-6040; cell 503-703-7734

<table>
<thead>
<tr>
<th>Time</th>
<th>Discussion Item</th>
</tr>
</thead>
<tbody>
<tr>
<td>9:00 a.m.</td>
<td>Welcome</td>
</tr>
<tr>
<td></td>
<td>➢ Review Agenda &amp; 3/14/18 Meeting Notes</td>
</tr>
<tr>
<td></td>
<td>➢ Review and Accept November Agenda &amp; 3/14/18 Meeting Notes</td>
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<tr>
<td>9:15 a.m.</td>
<td>Land Acquisition Update (Confidential)</td>
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<td>9:20 a.m.</td>
<td>Safety Orientation for Field Tour</td>
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<tr>
<td><strong>9:25 a.m.</strong></td>
<td><strong>Depart for Field Tour</strong></td>
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<tr>
<td>10:00-10:45</td>
<td>Review the 2017 Middle Earth Timber and meadow area</td>
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<tr>
<td>11:00-12:30</td>
<td>Proposed 2018 timber harvest Higlsy I commercial thin and Higlsy II clearcut.</td>
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<td></td>
<td>➢ Review the red alder plantings in 1215147CC. Eat lunch at Buncombe Hollow orchard/meadow area.</td>
</tr>
<tr>
<td>1:00-2:15</td>
<td>Proposed 2018 Mullet clearcut and Comb over commercial thin.</td>
</tr>
<tr>
<td>3:00 p.m.</td>
<td>Return to Park and Ride and discuss next Meeting’s Agenda</td>
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<tr>
<td></td>
<td>➢ Note: all meeting notes and the meeting schedule can be located at:</td>
</tr>
<tr>
<td></td>
<td><a href="http://www.pacificorp.com/es/hydro.html">http://www.pacificorp.com/es/hydro.html</a></td>
</tr>
</tbody>
</table>

1 Please bring rain gear and sturdy walking shoes for hiking in the forest. No hard hats needed for this tour. PacifiCorp will have 2 Vehicles for transportation of up to 4 additional passengers.

No conference call-in available for this meeting

PLEASE BRING LUNCH
# DRAFT Meeting Notes

**Lewis River License Implementation**  
**Terrestrial Coordination Committee (TCC) Meeting**  
**April 11, 2018**  
**Woodland Park and Ride – Field tour**

## TCC Participants Present: (7)
Ray Croswell, RMEF  
Kendel Emmerson, PacifiCorp  
Summer Peterman, PacifiCorp  
Kim McCune, PacifiCorp  
Peggy Miller, WDFW  
Eric Holman, WDFW  
Erik White, Cowlitz Indian Tribe  

## Guest (1)
Joe Berry, Chilton Logging

## Calendar:

<table>
<thead>
<tr>
<th>May 9, 2018</th>
<th>TCC Meeting &amp; Field Tour</th>
<th>HCC</th>
</tr>
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## Assignments from April 11, 2018

<table>
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<th>Assignment</th>
<th>Status</th>
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</thead>
<tbody>
<tr>
<td>Croswell: Forward information to the TCC on the Washington State definition of motorized vehicle.</td>
<td>Complete</td>
</tr>
<tr>
<td>Emmerson: Provide a cost breakdown for harvesting Higsly I &amp; II in 2018 to confirm that it does not affect the WHMP budget from completing the other pruning and PCT then it would be a go.</td>
<td>Complete – 5/3/18</td>
</tr>
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</table>

## Assignments from March 14, 2018

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<th>Assignment</th>
<th>Status</th>
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<tbody>
<tr>
<td>Emmerson: Create high-country model of big elk use areas and a 10-15 year plan for silviculture management for TCC review.</td>
<td>In progress</td>
</tr>
</tbody>
</table>

## Assignments from October 11, 2017

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<th>Assignment</th>
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<tbody>
<tr>
<td>Emmerson: To develop a hunting access map for PacifiCorp website that shows closed or restricted hunting areas, roads, and gates.</td>
<td>In progress</td>
</tr>
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</table>

## Parking Lot Items

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<tr>
<td>WDFW: In regards to 10.3.3, Matching Funds Eagle Island Project the TCC would like a 1-2-page progress report of project status with photos after the grant term expires (12-31-2017).</td>
<td>Provided status update as of 11/8/17</td>
</tr>
<tr>
<td>Emmerson/McCune: Contact PacifiCorp’s properties department to discuss further TNC detail and report to the TCC at the May meeting.</td>
<td>In progress</td>
</tr>
<tr>
<td>Reynolds/White: Schedule a conference call with appropriate parties specific to the TNC Conservation Easement.</td>
<td>Acoustic monitoring site visit is scheduled for end of May 2018</td>
</tr>
</tbody>
</table>
Kendel Emmerson (PacifiCorp) called the meeting to order at 9:05am. Emmerson reviewed the agenda and asked the TCC if there were any changes/additions. Emmerson will add an update on the Unit 36 ash deposit areas, discussion about the use of e-bikes on WHMP lands and an update on the Hanley Curry cultural survey expense.

Ray Croswell requested that Management Unit numbers be included on the agenda for locations so he can prepare for the meetings.

The TCC reviewed the March 14, 2018 meeting notes and no changes were requested. The meeting notes were approved without change at 9:20 a.m.

Public Comment Opportunity:
None

Swift Debris Removal Ash Deposit
Emmerson informed the TCC attendees that she confirmed the ash deposit expenses as follows:

- Move to Management Unit 36 Marble Creek - $25,000
- Move to Management Unit 19 Cougar quarry - $35,000
- Hauled off site - $105,000

PacifiCorp will complete one more year of burning slash this November 2018 and haul in December. PacifiCorp will have a better idea of the amount of drift on the reservoir after the raptor flights next week then PacifiCorp will contact Washington Department of Ecology for comment once a location is proposed. It appears Cougar Quarry may be the preferred location. The TCC can see the site at the May or June TCC meeting.

Use of E-bikes on Lewis River WHMP Lands
In response to concern from local law enforcement the TCC briefly discussed the use of E-bikes on WHMP lands and if such use is allowed as the Settlement Agreement does not allow motorized vehicles on PacifiCorp’s Lewis River WHMP lands.

Emmerson expressed that Weyerhaeuser does not allow motor vehicles on their lands and considers E-bikes a motor vehicle and Hancock all access is walk-in and by permit only hunting & recreation. Conflict of mixed use is a concern, damage to habitat, etc.

The TCC discussed if an E-bike is considered a “motorized” vehicle under the definition of horsepower and level of noise created by an E-bike. The TCC decided to table this item until the May 10, 2018 TCC agenda. Ray Croswell will forward information on the Washington State definition of motorized vehicle.

Lower Hanley Curry Meadow
Due to significant increase in survey costs that now are exceeding the cost of restoring the meadow, it is unlikely Lower Hanley-Curry Meadow will be restored by turning the field over.

Land Acquisition Update (CONFIDENTIAL)
Scope of work is needed
Additional detail around this topic is considered confidential and proprietary and not for public viewing.

10.3.3 Contribution of Additional Matching Funds
Emmerson informed the TCC attendees that PacifiCorp was awarded RMEF grant funds in the amount of $20,091.00, and we want to confirm that the TCC approves of PacifiCorp proceeding with matching funds in accordance with the Settlement Agreement language below:

10.3.3 Contribution of Additional Matching Funds. In addition to the contributions made under Section 10.3.1, beginning 18 months after Issuance of the New License for the Yale Project or Swift No. 1 Project, whichever is earlier, PacifiCorp shall match the contributions of local, state, and federal agencies, and other persons or organizations, made for the purposes of this Section 10.3, in an amount not to exceed $100,000 per year, and not to exceed $500,000 in any ten consecutive years. Any Party may propose a source of matching funds under this subsection. If and only if a commitment of funds is made by a party other than PacifiCorp, for acquisitions of Interests in Land or for implementation of habitat enhancement projects approved by the TCC, PacifiCorp shall provide matching funds within the limits set forth above at closing of the real estate transaction; no fund will be created. The TCC will identify Interests in Land for acquisitions or identify habitat enhancement projects to be funded with matching funds, and PacifiCorp shall execute approved acquisitions and implement approved enhancement measures.

The TCC agreed that PacifiCorp is to provide matching funds ($20,091.00) for the 2018 RMEF grant project.

Agenda items for May 9, 2018
- Review April 11, 2018 Meeting Notes
- Land Acquisition Update (Confidential)
- Study/Work Product Updates
- Tour Devil’s Backbone and Unit 34 and other high country sites, if weather and time permits.

Next Scheduled Meeting
- May 9, 2018
- Location: HCC

Attachments:
- April 11, 2018 Meeting Agenda
- Attachment A – Map of Unit 14 2017 Completed Harvest Area
- Attachment B – Map of Unit 15 2018 Proposed Harvest Areas Higslly I and II
- Attachment C – Map of Unit 15 2018 Proposed Harvest Areas Mullet & Comb Over

Tour Safety Briefing
Emmerson informed the TCC tour attendees that we are headed to tour Units 14 (2017 Completed Harvest Area) and Unit 15 (2018 proposed harvest areas). There will be very rough roads, many mountain beaver so watch your step for holes, there is also tripping hazards and watch for ticks.
Unit 14 & 15 Field Tour 9:30am – pictures included at the end of these meeting notes

Middle Earth 171401CC (23.0 acres)

- Prior vegetation cover type was about 9.9 acres of Upland Mix (UM) and 11.2 acres of Young Upland Deciduous (YUD).
- 184 leave trees total with almost ¾ at northern edge to extend the shoreline buffer to the topographical break.
- Special management areas included steep slopes with large rocks and mature conifer trees.
- A 2.53 acre meadow was created that will be passively managed.
- Unable to complete the scarification on approximately 1/3 of the harvest area. This will be completed in 2018 and entire harvest area, excluding the meadow, will be planted in 2019. Disturbed areas will reseeded in the Fall 2018.
- Harvest was originally 40 acres but cut in roughly half so that we could have future harvest to maintain cover forage.
- Refined the shrubland boundary and was able to remove a few conifer to promote further shrubs.

Unit 14 did not have a C:F goal assigned to it in the WHMP due to lack of access, however DNR expanded a road so we now have access. A C:F goal of 60:40 was created prior to harvest C:F was 76:24 and currently is 61:33

Grass – legume seed mix used in all scarified areas and the meadow

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Unit 14 – Meadow Area

Unit 14 – Middle Earth Timber and Slash Piles
The TCC agreed to plant a mix of conifer and deciduous trees. Red alder is readily available as seedling, but other deciduous trees will likely need to be acquired from a nursery. At the local native plant nursery, these will run $3.50 per tree plus additional cost for planting. Kendel will draft estimated cost and revised planting plan.
Higsl I (Currently THA 841523CC is proposed to be commercially thinned in 2018)

Here is historical reference on this THA:

• Management units were renamed sometime between 1984 and 1990. MU 15 was formerly MU 8 and this harvest identification was 840802, which included the current 841522CC, 841546CC, and 841523CC.

• 840802 is originally described as 58 acres but the current THAs combine are only 30 acres.

• Logging was completed in March 1984 and trees were planted in May 1984.

• The stand prior to 1984 harvest was described as doghair alder.

• Stand was restocked with 640 Douglas fir seedlings per acre.

• In November 1989 trees were described as 15 feet tall.

• The upper corner wasn’t planted in 1984 and may have been re-planted in 1991.

• PCT was scheduled for 1990, but there is no record of it occurring. The March 1991 notes state PCT is planned for 15’ spacing and/or 200 TPA, however annual reports at that time do not provide enough detail to determine if it was actually completed. Trees at that time were PCT with EZ-ject injection method which was discontinued because it had variable results.

• 1991 notes recommend commercially thinning the stand in 2005.

• Our records indicate last PCT was 2003. Unfortunately there is no 2003 annual report to confirm it was completed.

This a forestry objective from the 1990 SOP...........

Alder

1. Treat 5% (55 ac) of alder each year (WMP, p. 44).

2. A minimum of 50% of alder stems in a stand should be cut. All cottonwoods and bigleaf maple should be retained (WMP, p. 44).

3. Ninety percent of the alder areas may be planted to low density douglas-fir seedling (WMP, p. 45) (i.e., 10% should not be converted to fir).
Unit 15 - Mature Timber

121547CC red alder plantings
Buncombe Hollow Orchard/Meadow Area

Buncombe Hollow Orchard/Meadow Area
The TCC requested that if the cost of Higsly I and II does not affect the WHMP budget from completing the other pruning and PCT then it would be a go. Higsly II should be planted back to red alder.
Higsly I - Chilton Logging determining tree’s approximate age by boring ¼ diameter into the approximate center of the tree

Unit 15 – Higsly II Commercial Thin
Mullet 10.87 acre clear cut.  
Prior harvest was CT in 951539CT, this harvest follows the same boundaries.  
Prior commercial thin was a thin from below.  
The leave tree area adjacent to the eagle roost buffer is a group of large snags.  
Abandon 1520 road to remove from riparian buffer  
Leave trees within the buffer include all trees >15 in dbh and will meet the 2015 Bald Eagle Management Plan conservation measures for communal roosts:  
- Communal roosts will be assumed to be occupied between November 15 and March 31, unless monitoring determines it to be unoccupied (PacifiCorp 2008)  
- Communal roost locations will be maintained indefinitely or until a natural event causes significant changes in the roost’s habitat condition, making the area no longer capable of supporting roosting bald eagles  
- Protect communal roost and staging areas with a 400-ft (120-m) buffer by maintaining a forest structure that should include large trees and follow prescriptions to prevent deterioration from the effects of windthrow (Watson and Rodrick, 2001)  
- No explosives will be used within 0.5 mi. (0.6 km) of communal roosts between November 15 - March 15  
- Avoid activities that produce noise or visual disturbance (e.g., tree cutting, heavy machinery, and pile driving) within 400 ft (120 m) of the communal roost core area trees or staging trees during the critical roost period (November 15 - March 15)  
- Construction activities described in the Settlement Agreement as occurring within 1,312 feet (400 m) or 2,624 feet (800 m) line-of-sight of an active bald eagle nest or roost, respectively, will occur outside of the critical nesting period (January 1 to August 31) and the key wintering period (November 15 and March 31) (PacifiCorp 2008).  

Comb Over 185148CT 24.40  
Prior harvest was 871514CC. Stocking rates varied between 435 and 680 TPA between 1984 and 1989.  
Extend 1510 road into mullet to reduce roads in riparian buffers. 1510 is in buffer as well but topography is little easier gentler.  
PCT 1999 and 2003  
Currently at 250 TPA will reduce down to 70-80 TPA (40% CC)  
Some natural openings from root rot will be enhanced by removing disease trees.  
Bigleaf maple snags may not be able to keep because they are too unstable.  

The TCC approved the clear-cut and commercial thin for Unit 15 Comb Over and Mullet as described in the 2018 Annual Plan.
Western trillium (Trillium ovatum)
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