

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

Date & Time: Wednesday, May 10, 2017
9:00 a.m. – 3:00 p.m.

Place: Merwin Hydro Control Center & Field Tour
105 Merwin Village Court
Ariel, WA 98603

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

Time	Discussion Item
9:00 a.m.	Welcome <ul style="list-style-type: none"> ➤ Review Agenda & 4/12/17 Meeting Notes ➤ Review and Accept May Agenda & 4/12/17 Meeting Notes
9:15 a.m.	Chris Blodgett <ul style="list-style-type: none"> ➤ Discuss herbicide spraying & potential alternatives to this activity
9:30 a.m.	<ul style="list-style-type: none"> ➤ Project Updates ➤ WDFW LWD and Gravel Storage
10:00 a.m.	TNC Conservation Easement Discussion (CONFIDENTIAL)
10:15 a.m.	Safety ¹ orientation for Field Tour
10:20 a.m.	Break
10:30 a.m.	Depart for Field Tour <ul style="list-style-type: none"> ➤ *Unit 14 – 2017 Proposed Timber Harvest Area * Unit 14 requires about 1/2 mile hike over rough terrain plus exploring 21 acres harvest area.
2:45 a.m.	Next Meeting's Agenda <ul style="list-style-type: none"> ➤ Note: all meeting notes and the meeting schedule can be located at: http://www.pacificorp.com/es/hydro.html
3:00 p.m.	Meeting adjourn

¹ Please bring rain gear and sturdy walking shoes for hiking in the forest. PacifiCorp will have 2 vehicles for transportation of up to 4 additional passengers.

Join by Phone

+1 (503) 813-5252 [Portland, Ore.]
+1 (801) 220-5252 [Salt Lake City, Utah]
+1 (855) 499-5252 [Toll Free]

Conference ID: 20999027

PLEASE BRING LUNCH

FINAL Meeting Notes
Lewis River License Implementation
Terrestrial Coordination Committee (TCC) Meeting
May 10, 2017
Merwin Hydro Control Center & Field Tour
Ariel, WA

TCC Participants Present: (8)

Bill Richardson, RMEF
 Ray Croswell, RMEF
 Kendel Emmerson, PacifiCorp
 Summer Peterman, PacifiCorp
 Kim McCune, PacifiCorp
 Peggy Miller, WDFW (conference)
 Amanda Froberg, Cowlitz PUD
 Erik White, Cowlitz Indian Tribe

Guests (1)

Chris Blodgett, concerned citizen

Calendar:

June 14, 2017	TCC Meeting	HCC
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Assignments from May 10, 2017	Status
McCune – Email Peggy Miller (WDFW) copy of Unit 14 maps.	Complete – 5/12/17
Frazier – Report back to the TCC regarding WDFW request for materials storage; keeping logs wet, add fencing to reduce theft.	Complete – 5/12/17

Assignments from April 12, 2017	Status
Emmerson/McCune: Contact PacifiCorp’s properties department to discuss further TNC detail and report to the TCC at the May meeting.	In progress
Peterman – Apply for RMEF grant monies relative to the newly acquired 1,800 acres for seeding, road closure(s) and possibly exclosures.	Pending

Assignments from July 13, 2016	Status
Emmerson: Report back to the TCC regarding status of the Property Encroachment Permit and Shoreline Permit Application.	Pending

Assignments from March 9, 2016	Status
McCune: Add the Fisher CCAA conservation measures in in 2016 WHMP Annual Report and in year 17 re-write (incorporate into Best Management Practices).	Pending
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).	Provided status update as of 3/8/17

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. No additions were requested.

The TCC reviewed the April 12, 2017 meeting notes and no changes were requested. The meeting notes were approved at 9:10am.

Public Comment Opportunity:

Chris Blodgett (Concerned Citizen) – Blodgett expressed to the TCC attendees that he reviewed the Lewis River 2017 Annual Plan (Plan) and has concerns about PacifiCorp’s spraying program on its Lewis River WHMP lands. He considers it excessive herbicide spraying due to excessive clear cutting of Douglas Fir forests and he wishes to discuss alternatives to this activity.

Emmerson explained that the Plan identifies priority 1, 2 & 3 acres for the contractor but PacifiCorp never reaches all the acreage identified. It is more likely to spray the priority 1 acres while priorities 2 & 3 are identified so PacifiCorp does not lose sight of these areas, or if budget and time allows 2 & 3 will be included. Priority 2 & 3 will eventually be a Priority 1 if left untreated. Also noted that PacifiCorp never uses broadcast sprays method, so even though the entire harvest area acres are included in the table, only the portion with target plant species is treated.

Blodgett further expressed that PacifiCorp’s forest management methods is only perpetuating the need for further spraying and clear cutting. He asked if PacifiCorp will ever have a balance of cover forage and stated that this is simply perpetual logging of mature forest. His proposed solution is for PacifiCorp to consider shelter woods; leave a lot more fir trees and still get regeneration forest.

Kendel explained that shelter woods are more of an east side forest practice due to wind throw, slopes, and higher diversity of tree species. Although a shelter wood provides less sunlight to the forest floor these is still extensive soil disturbance, which also may cause invasive species.

Blodgett showed Richardson and read from PacifiCorp’s Habitat Protection webpage, “PacifiCorp has managed forest habitat for developing old-growth Douglas fir forests and for improving habitat structures and forage for wildlife in second-growth strands.” Emmerson explained that although that statement needs to be updated, WHMP implementation is still achieving these goals.

PacifiCorp’s management of its Wildlife Habitat Management Plan (WHMP) lands is much different then industrial treatment of clear-cutting.

Emmerson expressed that PacifiCorp complies with its license and the FERC approved the Lewis River WHMP. Blodgett asked how many acres in the WHMP are managed. PacifiCorp manages all of its 15,100 acres in the Lewis River basin. All acres are categorized into a habitat type and all habitats types have management actions under the WHMP, so in theory every acre is managed under its WHMP.

Blodgett asked what age class makes mature and old-growth forests. Emmerson explained that is largely categorized by diameter class and that information was provided to him in prior email requests where he referred to the Vegetation Cover Type Mapping Relicensing study and decision making key. She encouraged him to use that key on the ground and learn how to apply WHMP vegetation cover type mapping.

Blodgett asked how is the WHMP and annual plans peer reviewed. Peggy Miller (WDFW) mentioned that the WHMP was evaluated and approved by all Settlement Agreement signatories, which include 26 different agencies, organizations, and citizens at large. It is beneficial to fish and wildlife as well as improving hunting opportunities and improving the landscape for big game and all wildlife. Thinning is to create multi-dimensional stands and the needs to spray is to keep the weeds down, otherwise the trees we are required to plant will not grow and we will not have success.

In 2025, the WHMP lands will have the Habitat Evaluation Procedure assessment, depending on those results the WHMP may be modified to insure objectives are being met.

The 30-day review period of the WHMP Plan and Report was discussed and Emmerson that was stated in her letter, the settlement agreement review period is specifically for TCC review and not the public. McCune expressed to Blodgett that public comment/involvement is always welcome at TCC meetings, and the TCC will consider and respond to these comments/suggestions. However, she also noted that the terms of the Settlement Agreement, the FERC license and its many obligations could often trump that of the public wishes. McCune further expressed that PacifiCorp will continue to implement forest management on its private forestlands in accordance with the Settlement Agreement, the WHMP and the current license until year 2049ⁱ.

The TCC also mentioned that it might be beneficial to walk a few management unit sites with Blodgett as to better inform him of PacifiCorp's forest management practices as compared to commercial forestry management.

Project Updates

➤ **Cowlitz PUD Overhead Line Locations for New Flight Diverters**

Amanda Froberg (Cowlitz PUD) provided a map for TCC review illustrating the installation locations of two new 70' perch poles (15' higher than the PUD distribution poles) to provide a safe place for the eagles to roost and hunt, hopefully conditioning them away from using the electrified poles and cross arms for perching. The spans highlighted on the map will also have bird flight diverters installed on the conductor, which increases the visibility of the line and helps reduce bird collision mortalities in the future. The diverters are tent like markers that attach to the conductor and have two florescent stripes and one glow in the dark for higher visibility. In addition, conductor covers will be added over the cross arms to reduce the chance of electrocution. The PUD received confirmation that the second sub-adult bald eagle mortality was due to a broken neck from collision with the distribution line. Prior to installation the PUD crew will trim trees to provide more of a buffer between the trees and distribution line so that the line is more visible, some red alders may need to fell and all firs will be climbed and trimmed. The goal is to complete this project by July 2017. The PUD will provide a full report this fall to the TCC and USFWS Permit Office.

➤ **WSDOT 503 Road Closure/Land Slide/Rock Blasting** - Emmerson informed the TCC that Hwy 503 is open but one lane only and subject to delays. The final blasting is not complete and may not take place until July/August 2017. The blasting is not affecting eagles adversely. McCune also noted that the PacifiCorp recreation page website informed the public that Speelyai Bay re-opened May 11, 2017 at 5:00am and Cresap will re-close until May 26, 2017.

- **DNR Easement (Upper Hanley Curry)** – Kendel will be meeting with DNR May 16 to discuss options for road placement that will possibly avoid crossing the meadow.
- **New Property Acquisition** – The roads are plowed, planting has begun but the silver fir seedlings did not survive. Apparently, this species is hard propagate, so in the future will try to procure pine, noble fir, Douglas fir, and western hemlock. PacifiCorp is issuing its property acquisition press release soon.
- **WDFW Gravel and Log Storage Area** – Emmerson informed the TCC attendees that its Woodland Release Pond site (approximately 3 acres) is available for the WDFW requested storage of gravel and logs for approximately one year (see **Attachment A** – materials to be stored). PacifiCorp is contacting the construction company for the release ponds to make sure the storage will not be in the way of the construction this summer/fall. Confirmation is needed from WDFW for the following:
 - Will WDFW address keeping the log pile wet during the hot summer months?
 - Will WDFW fence the material to detour theft/vandalism?

PacifiCorp is conducting a construction meeting in approximately two weeks and will keep the TCC informed of the outcome.

The Nature Conservancy (TNC)

This topic is considered confidential and proprietary and not for public viewing. After PacifiCorp's initial research it was determined we are good to move forward with a conservation easement with the Cowlitz Indian Tribe. PacifiCorp will discuss this with its internal legal counsel to see if they have a template of sorts to address a natural resources conservation easement.

Emmerson will contact PacifiCorp's properties department to discuss further detail and report to the TCC at the June meeting.

Tour Safety Briefing

Emmerson informed the TCC tour attendees that cell service and a radio is available, tripping hazards are present and possible stinging insects.

Depart for Field Tour – 10:30am

Note: Please also see maps provided as Attachments to these meeting notes.

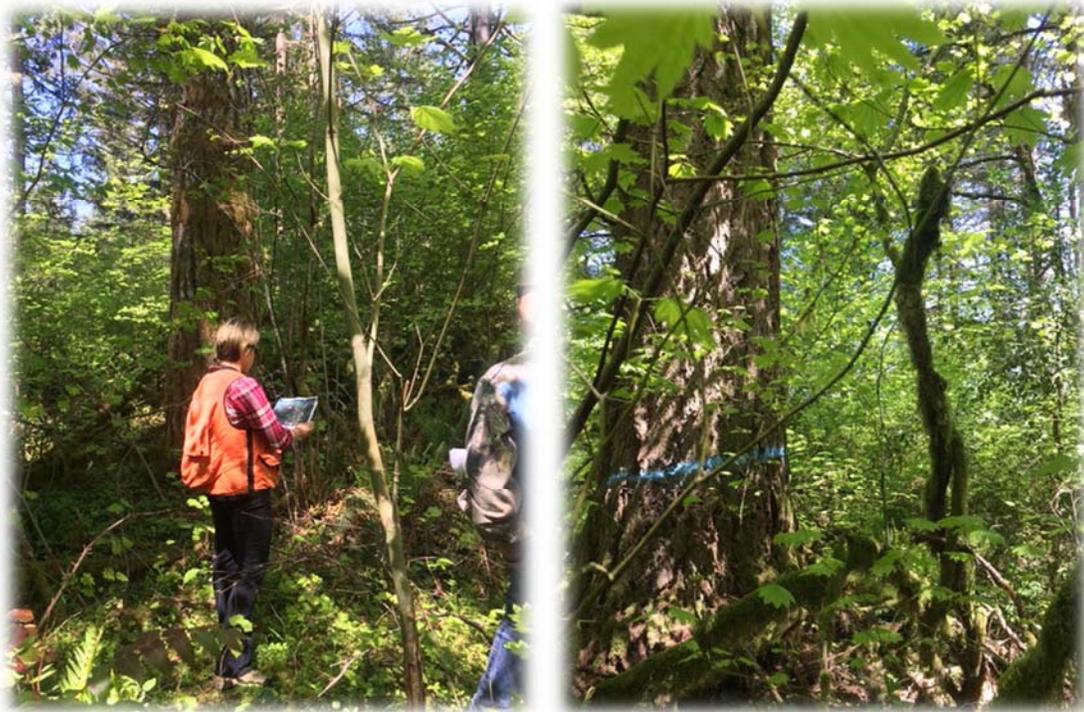
Unit 14 – 2017 Proposed Timber Harvest and 2.5 Acre Proposed Meadow

Management Unit 14 is a total of 117.43 acres and located at the end of Buncombe Hollow Road on the south side of Merwin Reservoir. Emmerson provided maps and the pre- and post- timber cover;forage ratio for TCC attendee review that identifies the proposed harvest area, landing, proposed meadow, roads, etc. (**Attachment B**).

Middle Earth 1 THA 171401CC (20.35 ac)

This is a clear-cut harvest in a mix of mid-successional conifer, upland deciduous, and upland mix. The timber harvest will be bordered by a shrubland and mature conifer. The proposed road will

terminus at flat area that will be cleared and grass seeded to provide an approximate 2-acre meadow. The TCC recommended that timber harvest try to retain some of the shrub components.



<1:30pm Meeting Adjourned>

Agenda items for June 14, 2017

- Review May 10, 2017 Meeting Notes
- Field Tour – Unit 19 and newly acquired lands
- Project Updates

➤ Conservation Easement Update (**CONFIDENTIAL**)

Next Scheduled Meeting

June 14, 2017
Location: HCC & Field Tour

Attachments:

- April 12, 2017 Meeting Agenda
- **Attachment A** – WHMP Gravel and Log Pictures
- **Attachment B** – Maps of Unit 14 – Proposed Harvest Area



¹ Please note that the Lewis River license issued to PacifiCorp in June 2008 is 50 years, so McCune misspoke. The current license does not expire until 2058. Management of PacifiCorp's WHMP lands will continue until this date under the terms & conditions of the current license.

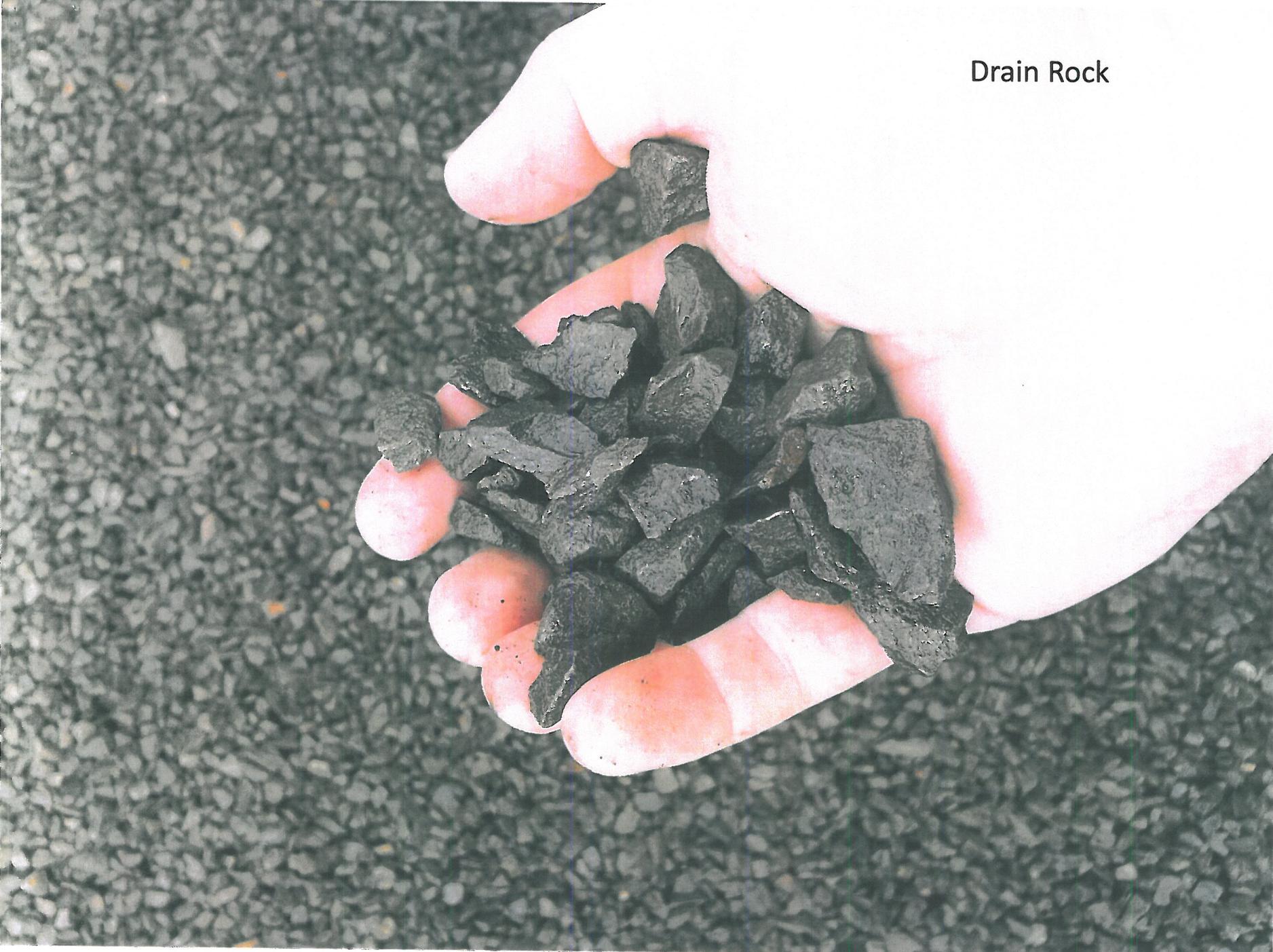
Materials Summary Table

Material	Quantity	Pile Length	Pile Width	Pile Height
Drain Rock	75 cu yds	40	20	7
Spawning Rock	1450 cu yds	100	40	15
Riprap	150 cu yds	60	20	8
Logs with Roots	36 pieces	60	40	5
Small Dia. Logs	180 pieces	100	40	5
Med. Dia. Logs	180 pieces	75	40	5
Large Dia. Logs	40 pieces	25	40	5



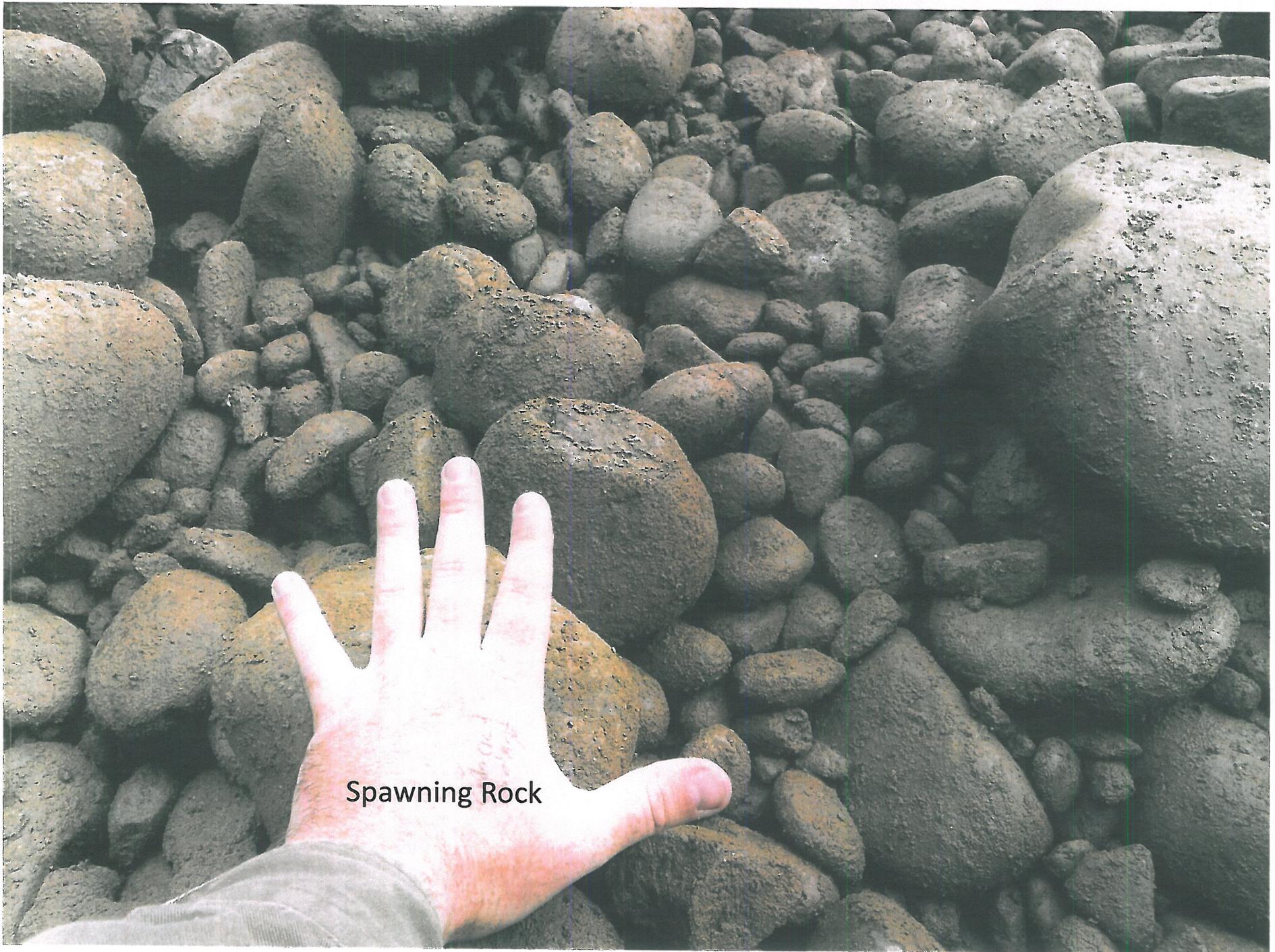
Drain Rock

Drain Rock



Spawning Rock





Spawning Rock

Riprap Rock



Logs with Roots



Large Dia. Logs



Med. Dia. Logs in foreground
Large Dia. Logs on photo right
Logs with roots in the background behind trucks



McCune, Kimberly

From: Miller, Peggy A (DFW) <Peggy.Miller@dfw.wa.gov>
Sent: Monday, May 01, 2017 11:27 AM
To: McCune, Kimberly; Emmerson, Kendel
Subject: [INTERNET] FW: Eagle Island restoration project - material storage site
Attachments: Eagle Island Materials In-Hand.pdf

This message originated outside of Berkshire Hathaway Energy's email system. Use caution if this message contains attachments, links or requests for information. Verify the sender before opening attachments, clicking links or providing information.

Greetings,

Here's a brief summary

WDFW hopes to settle litigation over an easement before July. In the mean time they are preparing plan B, looking for an alternative site to store materials. Materials list with approximate quantities is attached.

WDFW would prefer a site closer to Eagle Island but at this point they will accept a site that meets their criteria.

Size: roughly 0.5-0.67 of an acre of land (200 ft x 200 ft or other shape)

Road: handle the truck traffic, will upgrade or build as necessary

Duration: 1 year, longer depending on legal process

Thanks, Peggy

Peggy Miller – Renewable Energy Biologist, Habitat

Washington Department of Fish and Wildlife
600 Capitol Way North - Olympia WA 98501
peggy.miller@dfw.wa.gov - 360-902-2593

From: Stanley, Shawn M (DFW)
Sent: Monday, April 17, 2017 4:50 PM
To: Miller, Peggy A (DFW)
Cc: Hillson, Todd D (DFW); Glaser, Bryce G (DFW)
Subject: RE: Eagle Island restoration project - material storage site

Peggy,

Here's the email I referenced I'd provide in my voicemail.

See the attached pdf for a summary of what we are looking to store. We'll need roughly 0.5-0.67 of an acre of land for footprint size (200 ft x 200 ft or some other configuration of that). Depending on the site, the contractor will need to build from scratch or upgrade a road into the site to handle the truck traffic bringing in the materials. The actual work to bring everything in will take two weeks or so depending on the contractor.

Duration of stay would be about a year (July'ish 2017 – Spring/Summer 2018) but may be longer depending on how the legal process plays out. To reiterate Bryce's comments below, ideally, we will not need this intermediate staging area but are working on a contingency plan in the event things do not work out favorably.

Let me know if you have any questions or if I can provide information to aid in making a decision.

Shawn Stanley, P.E.
Habitat Engineering
Washington Dept of Fish & Wildlife
600 Capitol Way North
Olympia, WA 98501
Desk: 360-902-8304

From: Glaser, Bryce G (DFW)
Sent: Friday, April 14, 2017 5:03 PM
To: Miller, Peggy A (DFW)
Cc: Hillson, Todd D (DFW); Stanley, Shawn M (DFW)
Subject: Eagle Island restoration project - material storage site

Peggy

I got your voicemail today regarding the TCC looking for a storage site for materials eventually destined for our Eagle Island chum channel project. Thank you for working on that with the TCC!

I've forwarded your questions to Todd Hillson and Shawn Stanley who are coordinating the project. They will coordinate with you to get some answers back to the TCC.

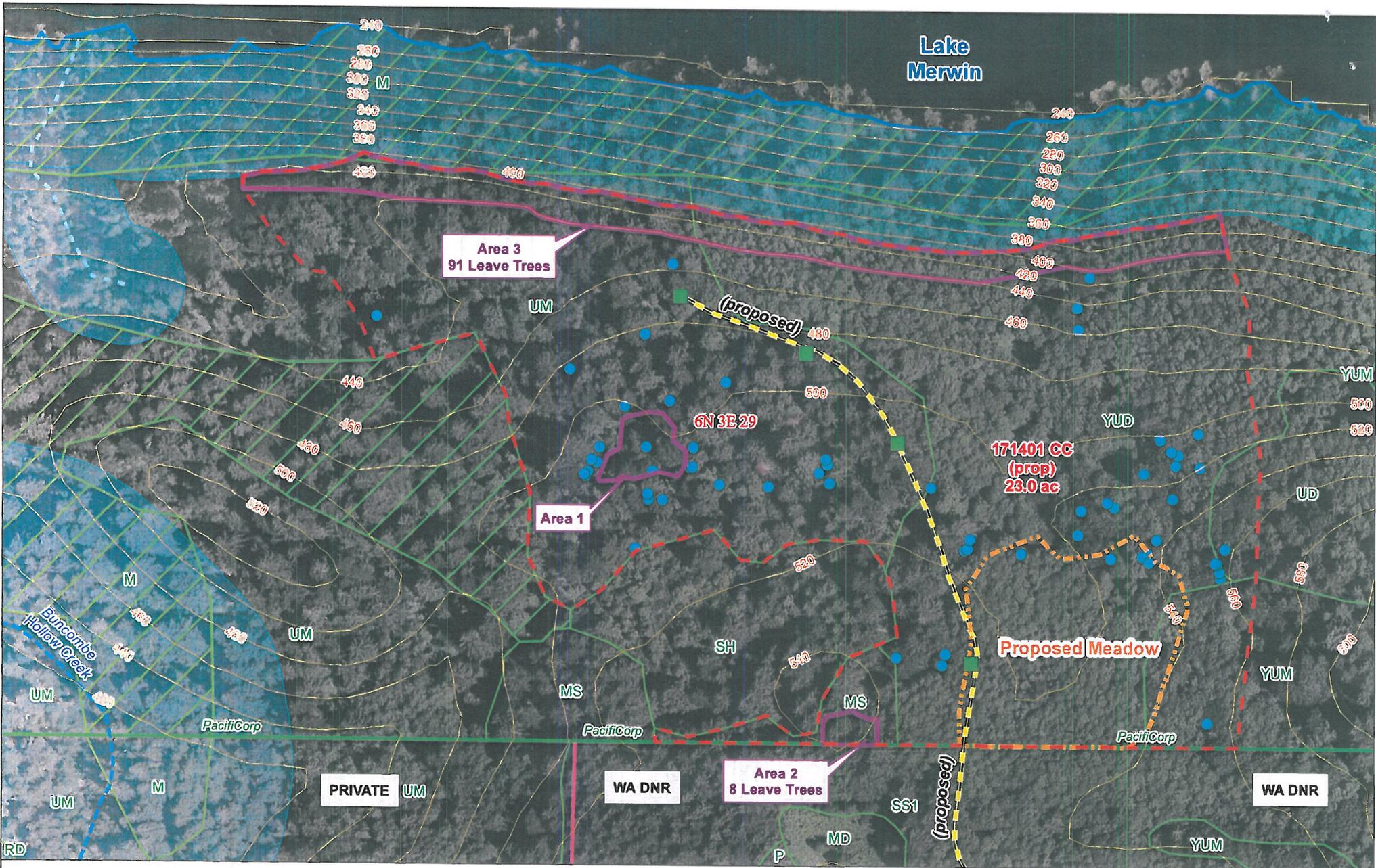
Just to clarify, we are hopeful that the easement issue with the landowner near our Eagle Island project will be resolved prior to our need to move the materials in early summer and that we can then just move materials to the project site. However, as a backup we need to identify an alternate site.

In your discussions with Todd and Shawn, hopefully we can also clarify how long the materials can stay at the site TCC is proposing, that will factor into the decision as well.

Thanks again for helping with this!

Bryce

Bryce Glaser
ESA/Anadromous Fish Investigations Unit Lead
WDFW Region 5
2108 Grand Blvd.
Vancouver, WA 98661
360-906-6765
bryce.glaser@dfw.wa.gov



WHMP - Unit 14

2017 Proposed Harvest Area
171401 CC
(23.0 acres)

Proposed Harvest

Landing

Special Management Area

Leave Tree

Proposed Meadow

Road

Proposed Road

Contour (20')

Section

Vegetation Cover

Priority Mature

PacifiCorp Land

WA DNR Land

Fish Stream

Non-fish Seasonal

Shoreline

Shore/Stream Buffer

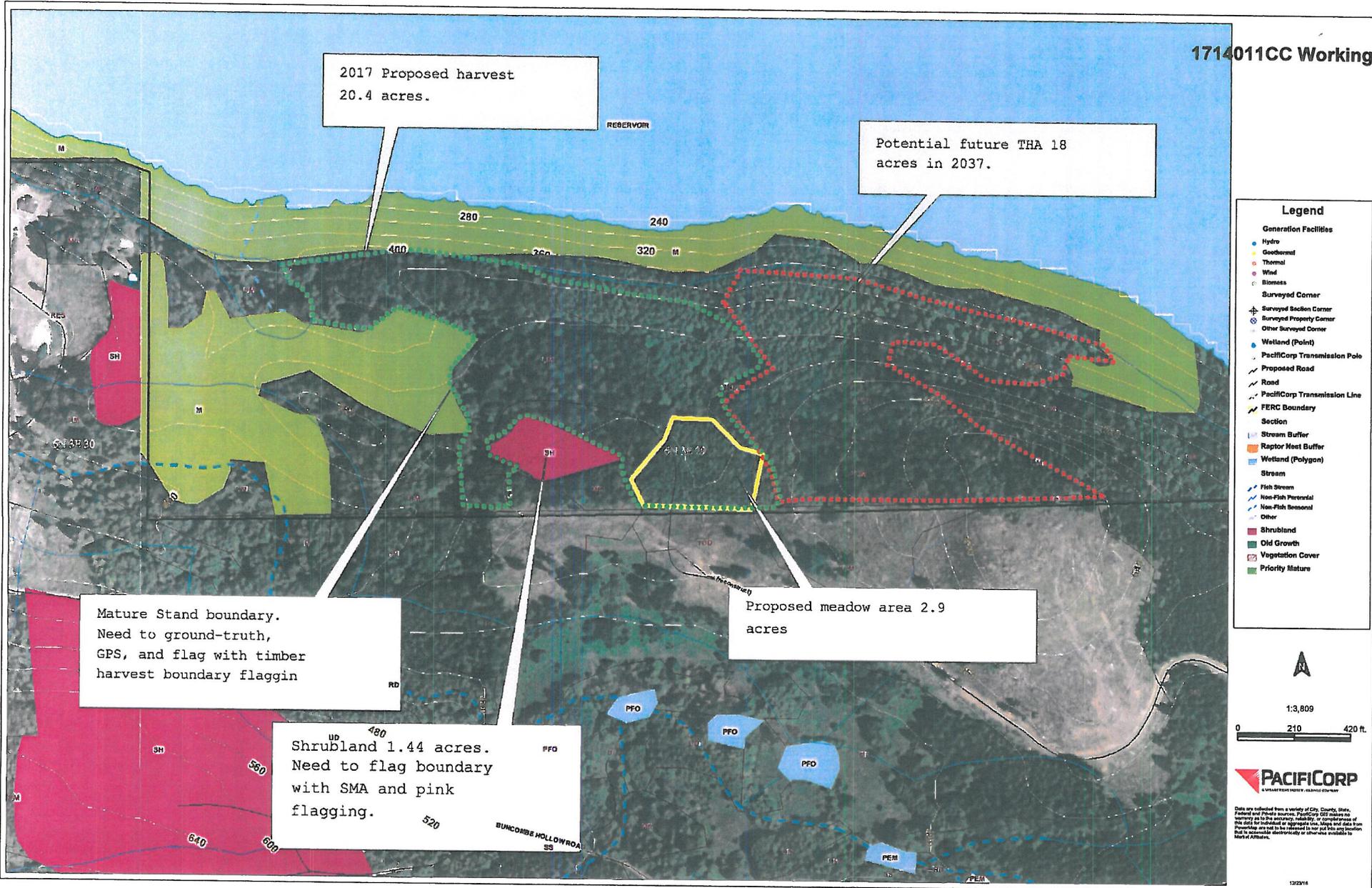


0 100
Feet
1:2,600

Table 4: Unit 14 pre- and post- timber cover:forage ratio

Cover vs. Forage	Vegetation Cover Types	Unit 14	
		2017	
		Pre-Harvest acres	Post-Harvest acres
Cover	Old-growth Conifer	0.00	0.00
	Mature Conifer	49.56	49.55
	Mature Conifer - Thinned	0.00	0.00
	Mid-Successional Conifer	7.24	6.57
	Upland Mixed	28.19	16.54
	Pole Conifer	0.00	0.00
	Total Cover Acres	84.99	72.66
Forage	Mid-Successional Conifer –thinned	0.00	0.00
	Young Upland Deciduous	14.82	7.15
	Upland Mixed – thinned	0.00	0.00
	Young Upland Mixed	9.13	8.77
	Lodgepole Pine	0.00	0.00
	Riparian Mixed	0.00	0.00
	Pole Conifer – thinned	0.00	0.00
	Riparian Deciduous Shrub	0.00	0.00
	Riparian Deciduous	0.00	0.00
	Upland Deciduous	12.46	12.46
	Oak Woodland ²	0.00	0.00
	Transmission Line ROW ²	0.00	0.00
	Recreational (vegetated areas)	0.00	0.00
	Dry Meadow/Grassland ²	0.00	2.90
	Shrubland ²	1.45	1.45
	Orchard ²	0.00	0.00
	Agriculture ²	0.00	0.00
	Seedling/Sapling Conifer	0.00	0.00
	New Clearcut	0.00	17.45
	Palustrine Wetlands ^{1,2}	0.00	0.00
Total Acres of Forage	37.86	50.18	
Neither	Lacustrine Unconsolidated Bottom	0.00	0.00
	Riverine Unconsolidated Shore	0.00	0.00
	Palustrine Aquatic Bed	0.00	0.00
	Palustrine Unconsolidated Bottom	0.00	0.00
	Highway right-of-way	0.00	0.00
	Residential	0.00	0.00
	Sparse veg.; Disturbed; Developed or PacifiCorp Facility	0.00	0.00
	Rock Outcropping and Talus	0.00	0.00
	Total Acres of Neither	0.00	0.00
Total Management Unit Acres		122.85	122.85
WHMP Proposed Cover:Forage Ratio		60:40 (+/- 5%) with no permanent forage goal	
Cover:Forage Ratio		70:30	59:41
Percent of Permanent Forage		2.95%	8.85%

1. Palustrine Wetland includes all palustrine vegetation cover types except PAB and PUB.
2. These vegetation cover types are consider permanent forage



2017 Proposed harvest
20.4 acres.

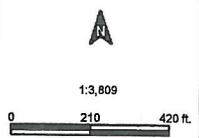
Potential future THA 18
acres in 2037.

Mature Stand boundary.
Need to ground-truth,
GPS, and flag with timber
harvest boundary flagging

Proposed meadow area 2.9
acres

Shrubland 1.44 acres.
Need to flag boundary
with SMA and pink
flagging.

- Legend**
- Generation Facilities
 - Hydro
 - Geothermal
 - Thermal
 - Wind
 - Biomass
 - Surveyed Corner
 - Surveyed Section Corner
 - Surveyed Property Corner
 - Other Surveyed Corner
 - Wetland (Point)
 - PacificCorp Transmission Pole
 - Proposed Road
 - Road
 - PacificCorp Transmission Line
 - FERC Boundary
 - Section
 - Stream Buffer
 - Raptor Nest Buffer
 - Wetland (Polygon)
 - Stream
 - Fish Stream
 - Non-Fish Personal
 - Non-Fish Seasonal
 - Other
 - Shrubland
 - Old Growth
 - Vegetation Cover
 - Priority Mixture



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