

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

Date & Time: Wednesday, October 11, 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 & 8/9/17 Meeting Notes➤ Review and Accept August Agenda & 8/9/17 Meeting Notes
9:30 a.m.	Cowlitz PUD Swift Eagle Mitigation Project Report
9:45 a.m.	Project Updates <ul style="list-style-type: none">➤ 2018 Timber Harvest Goshawk Updates➤ 2018 TCC Meeting Schedule➤ Land Acquisition (CONFIDENTIAL)
10:00 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
10:10 a.m.	Safety ¹ orientation for Field Tour
10:30 a.m.	Depart for Field Tour <ul style="list-style-type: none">➤ On site Cowlitz PUD Swift Eagle Mitigation➤ Unit 34 -2018 Proposed timber harvest area review➤ Progress update on road improvements in newly acquired lands
3:00 p.m.	Meeting adjourn

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.

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
October 11, 2017
Merwin Hydro Control Center & Field Tour

TCC Participants Present: (8)

Ray Croswell, RMEF
 Kendel Emmerson, PacifiCorp
 Summer Peterman, PacifiCorp
 Kim McCune, PacifiCorp
 Amanda Froberg, Cowlitz PUD
 Erik White, Cowlitz Indian Tribe
 Eric Holman, WDFW
 Peggy Miller, WDFW

Calendar:

November 8, 2017	TCC Meeting	Conference Call
December 13, 2017	TCC Meeting	Cancelled

Assignments from October 11, 2017	Status
Emmerson: To develop a hunting access map for PacifiCorp website that shows closed or restricted hunting areas, roads, and gates.	In Progress
Assignments from June 14, 2017	Status
Emmerson: TCC would like a noise estimate from Washington Dept. of Natural Resources prior to drilling and report estimate to the TCC.	Completed
Reynolds: Schedule a conference call with appropriate parties specific to the TNC Conservation Easement.	In progress

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 1,880 acres for seeding, road closure(s) and possibly additional exclosures.	In progress

Assignments from July 13, 2016	Status
Emmerson: Report back to the TCC regarding status of the Property Encroachment and Shoreline Permit Application. The landowner resubmitted the shoreline permit with the requested changes, which included rebuilding the dressing shed in the same footprint and changing removing shrubs to pruning vegetation. The property encroachment still in progress.	Complete – permit appl received; Properties Dept. now reviewing

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; request another update by 2017 year end

Kendel Emmerson (PacifiCorp) called the meeting to order at 9:07am. Emmerson reviewed the agenda and asked the TCC if there were any changes/additions. No additions were requested.

While reviewing the meeting minutes Emmerson provided an update on the Washington Department of Natural Resources (WDNR), proposed drilling on WHMP lands. She exchanged voice mails in August with Corina Forson (WDNR). Forson confirmed that WDNR received their grant funding. The final drill sites need to be determined and sites on PacifiCorp-owned lands are still being considered. Drilling will occur in June or July 2018 and decibels (dB) at the truck have been measured at 90 dB and 60 dB 300 feet from the truck.

The TCC reviewed the August 9, 2017 meeting notes and no changes were requested. The meeting notes were approved at 9:20 a.m.

Public Comment Opportunity:

None

Cowlitz PUD Swift Eagle Mitigation Project Report & Tour

Amanda Froberg (Cowlitz PUD) provided a cursory review of the Bald Eagle Mitigation Report, September 2017 addressing the following mitigation items completed August 1-3, 2017 and August 11, 2017.

- Removed trees and limbs within 20 feet of the distribution lines.
- Installed (2) 70-foot perch poles.
- Installed 350 Power Line Sentry Avian Flight Diverters on ~4,750 feet of distribution line.
- Installed 11 Fiberglass Triangle Perch Discouragers.
- Installed 20 T.E. Connectivity Conductor Covers.
- Reconfigured an electrical switch to make it avian safe.

Froberg also conducted a field visit of the mitigation site with the TCC today so they could see the results.



PUD crews installing avian flight diverters.



Completed installation of a perch discourager.

Project Updates

- **2018 Timber Harvest Goshawk Updates** –Emmerson explained that in mid-August it was discovered that the 2018 timber harvest areas in Management Unit 15 were to also include a clear-cut and commercial-thin harvest in the western portion of the management unit. Summer Peterman (PacifiCorp) explained that because it was too late to complete a Broadcast Acoustical Survey, an Intensive Search Survey was completed in 2017. Peterman provided maps of Unit 15 2018 proposed harvest areas (**Attachment A**) to demonstrate where the Intensive Search Surveys took place August 2017 and where PacifiCorp will conduct a broadcast survey between June and July 2018.
- **2018 TCC Meeting Schedule** - The TCC agreed to meet the 2nd Wednesday of every month for 2018 (9:00am – 3:00pm) and adjust as needed.

Land Acquisition Update (CONFIDENTIAL)

Meetings with certain landowner representatives will take place this October. Additional detail around this topic is considered confidential and proprietary and not for public viewing.

Other

Froberg informed the TCC that Cowlitz PUD is still saving money from the WHMP fund annually for future forestry management actions on the Devil's Backbone. There may be enough funds in 2019 to complete the project in 2020. The TCC will review the balance in the PUD WHMP funds in 2019 and determine if they want to proceed with approximately \$50k or continue saving funds for a larger area of thinning and a more meaningful entry.

Tour Safety Briefing

Emmerson informed the TCC tour attendees that there will be thick fog and very slippery in areas of huckleberry. Also, expect 10-15 degrees cooler in the higher elevations.

Depart for Field Tour – 10:30am

Emmerson conducted a field tour of the following 2018 Proposed Harvest Areas within Unit 34. These harvest areas are above 3500 feet in elevation and will likely be snowed in until June 2018. Therefore, TCC review needed to occur in 2017, so the timber harvest could begin July 15, 2018. Unfortunately, only a limited time was spent at Bumble Timber Harvest area (183401CC) due to inclement weather and road access concerns prevented be able to go to Rudolf (183403CC) or Yukon (183402CC).

Emmerson pointed out that Management Unit 34 does not have a cover:forage value, but it is an estimated 95% pole timber and forage is comprised of some small shrubland areas and wetlands. Some of the shrubland areas are large talus slopes covered in sitka alder, which provide very little access or preferred forage for elk. The preferred forage for elk appears to be willow and the vine maple and huckleberry that grow in openings. Emmerson pointed out that even though there is considerable amount of huckleberry and some vine maple under the canopy there little to no browse or sign of elk in the interior forests.

These harvest areas were selected to provide openings and to ultimately improve the cover:forage ratio for the management unit. In addition, this a good opportunity to apply WHMP practices to the recently acquired high country lands. Throughout each of the timber harvest areas, special management areas were selected for openings with huckleberry and other unique features such as logs, snags, or large trees. The remaining huckleberry may be retained in some clusters at the operator's discretion, but most will be mechanically scarified. Outlined below are details for each site and the corresponding maps included as **Attachment B**.

Bumble (183401CC) - 19.31 acres

- **Access:** 3400, 3420, and 3421 road. Road access is good and will require very little additional work.
- **Leave Trees and Snags:** Timber harvest area requires a total of 154 leave trees (snags, wildlife trees or green retention trees). Currently there 136 leave trees and six snags. The timber harvest area will need an additional 12 or the THA boundary will be adjusted to include leave trees shown outside of the THA boundary.
- **Special Management Area (SMA):** Eastern SMA is potential wallow area with open grown huckleberries and a snag. The western SMA is an open grown huckleberry area with heavy browse and large trees. The northern SMA was selected as a visual screen between the shrubland area and the 3420 road.
- **Timber Stand Type:**
 - Age: North of 3400 road is 39 years and south of 4300 is 53 years
 - Douglas-fir Site index: Class 3 north of 3400 road and class 5 south of 3400 road
 - Primary species: Pacific Silver fir
 - Secondary species: Douglas fir, western hemlock, and noble fir.
 - Trees Per Acre: north of road 3400 = 324 South of road 3400= 272
 - Average Diameter at breast height (dbh): 11-12 inches

Rudolf (183403CC) - 18.33 acres

- **Access:** Road access will be from the above and below the timber harvest areas using 3430 road and 3413 road. The 3413C1 stream crossing is a log-cribbed culvert that blew out. A temporary culvert will be installed and pulled following timber harvest activities to abandon the remainder of 3413 road.
- **Leave Trees and Snags:** Timber harvest areas requires 147 leave trees. Currently there 98 leave trees and four snags. An additional 145 leave trees will marked most likely in the northeastern section.
- **Special Management Area:** Northern SMA is open patch of huckleberries, large logs, and large trees. The southern SMA needs to be flagged and GPS but is willow thicket with some vine maple and huckleberry. It thought to be an old landing, but has extremely high elk use. If it meets 1 acre in size it will become a shrubland.
- **Timber Stand Type:**
 - Age: 43 years
 - Douglas-fir Site index: Class 3
 - Primary species: Pacific Silver fir
 - Trees per Acre: 310
 - Average dbh: 11 inch

Yukon (183402CC) - 12.07 acres

- **Access:** Road access is good from 3430 road and requires very little additional work.
- **Leave Trees and Snags:** Timber harvest area requires 97 leave trees. Currently there 95 leave trees and nine snags.
- **Special Management Area:** The SMA is open grown huckleberry with heavy browse and large trees.
- **Timber Stand Type:**
 - Age: Range 39-47 years
 - Douglas-fir Site index: Class 3 to Class 4
 - Primary species: Pacific Silver fir
 - Secondary species: Douglas fir, western hemlock, and noble fir.
 - Trees per Acre: 323 to 328
 - Average dbh: 11 inches

Each of these timber harvest areas are vegetation cover typed as pole due to the canopy cover and average dbh, however, some of the trees that will be harvested exceed 21 inches in dbh. Therefore, an Intensive Search Northern Goshawk Survey will be completed for each timber harvest prior to July 15, 2018.

<1:30pm Meeting Adjourned>

Agenda items for November 8, 2017

- Review October 11, 2017 Meeting Notes
- 10.3.3, Matching Funds Eagle Island Project Update

- ACC/TCC Structure and Ground Rules; review & discuss revisions
- Study/Work Product Update

Next Scheduled Meeting

November 8, 2017
Location: Conference Call

Attachments:

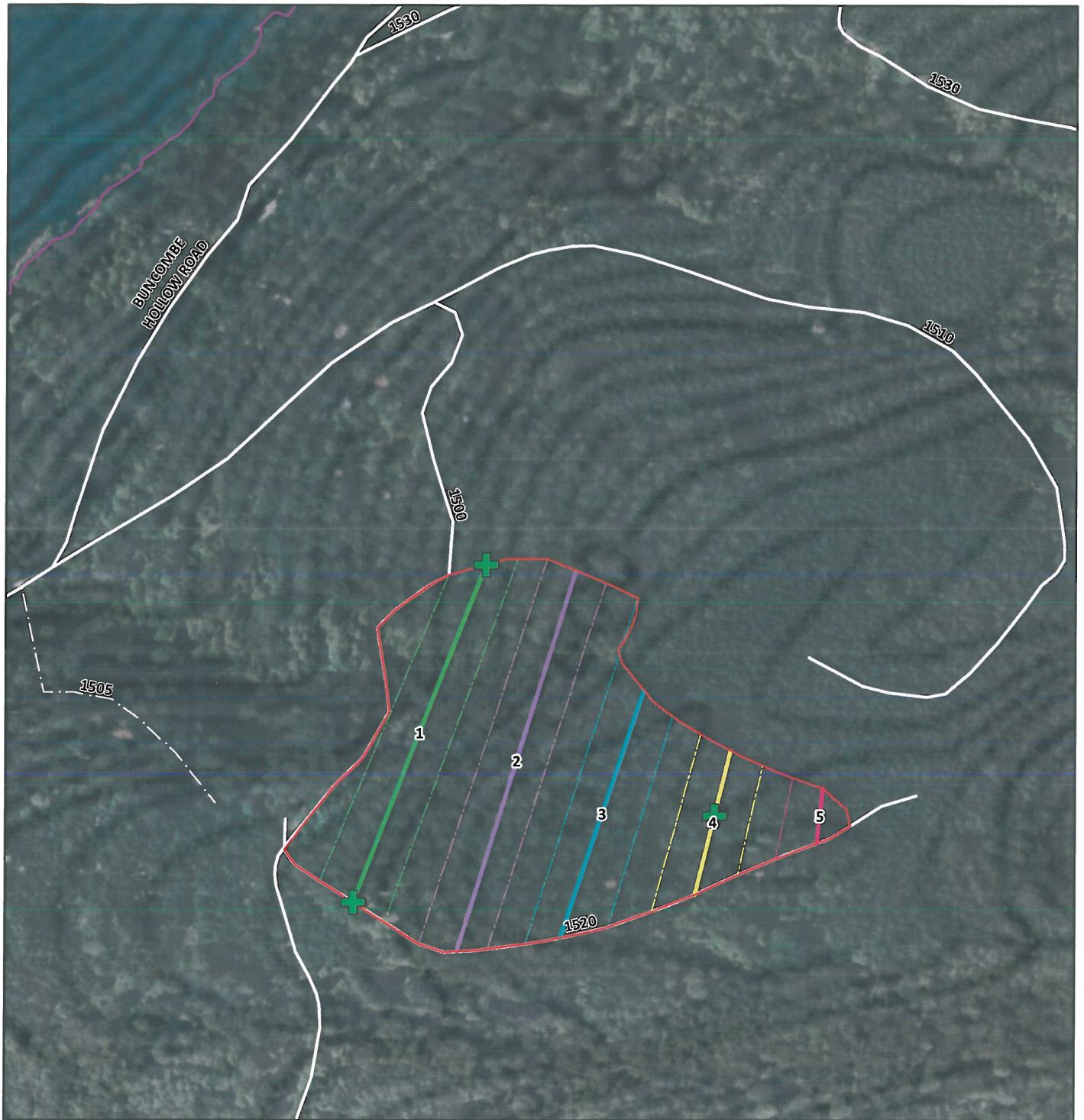
- October 11, 2017 Meeting Agenda
- **Attachment A** - 2017 Northern Goshawk Surveys – Unit 15 Maps
- **Attachment B** - Unit 34 2018 Proposed Harvest Area Maps



2017 Northern Goshawk Surveys

Intensive Search Surveys

Unit 15 West



This product is for information purposes only and may not be suitable for legal, surveying or engineering purposes. Please consult the original data sources to ascertain usability.

Data Sources: Roads, Harvest Units and Raptor Nests from PacifiCorp. Broadcast Locations and Transects from Cafferata Consulting. Topo and Aerial from ESRI. Map Created 8/23/17.

PacifiCorp Ownership

Harvest Unit



Broadcast Locations

Highway

Paved Road

Improved Road; Unknown Road

Trail

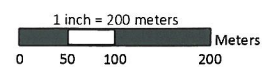


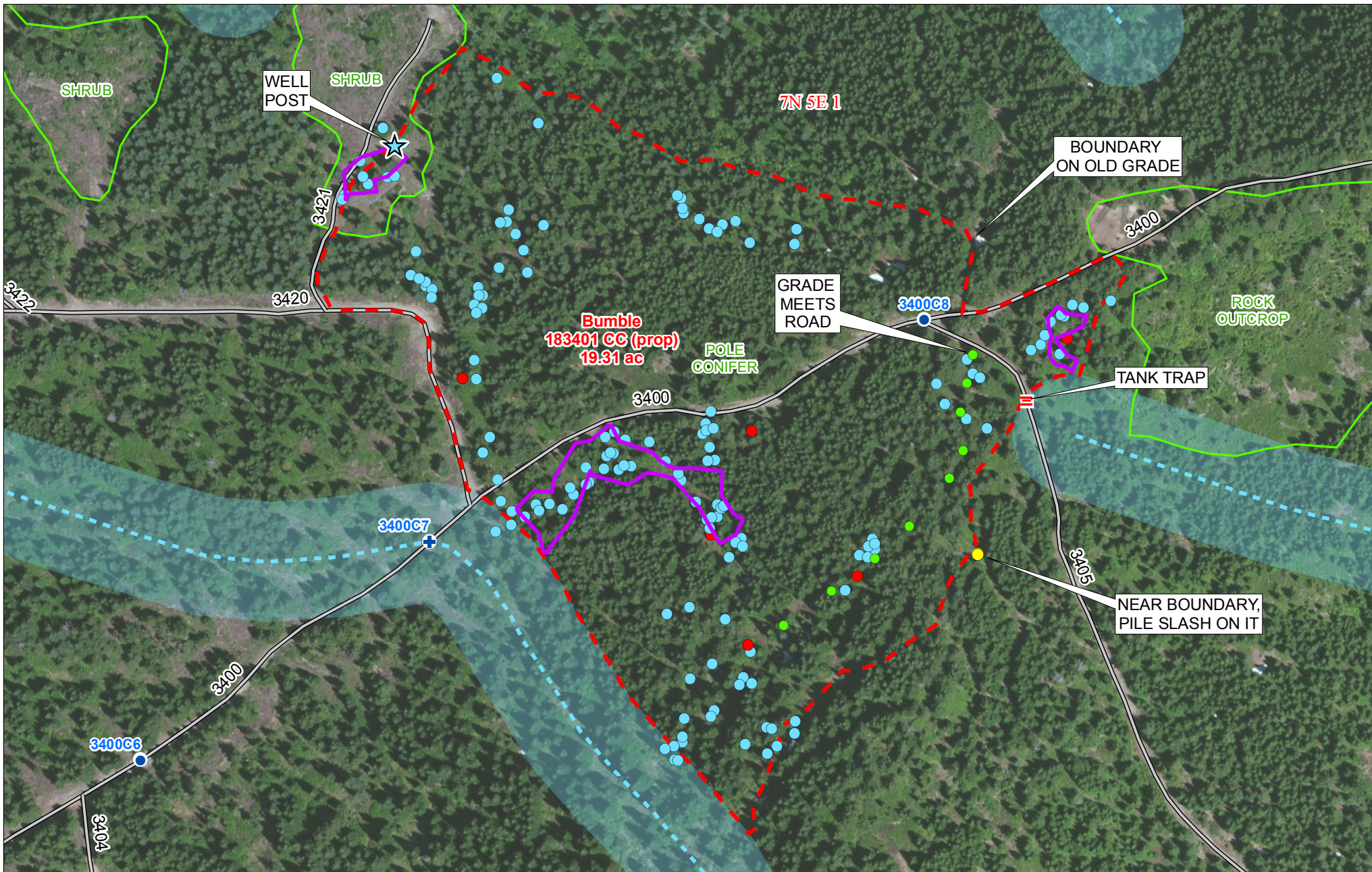
Cafferata Consulting, LLC
Practical Environmental Solutions



0 20 40 80 Meters

Unit 15





WHMP - Unit 34

**2018 Proposed
Harvest Area
183401 CC Bumble**

- Proposed Harvest
- Special Management Area
- Leave Tree
- Snag

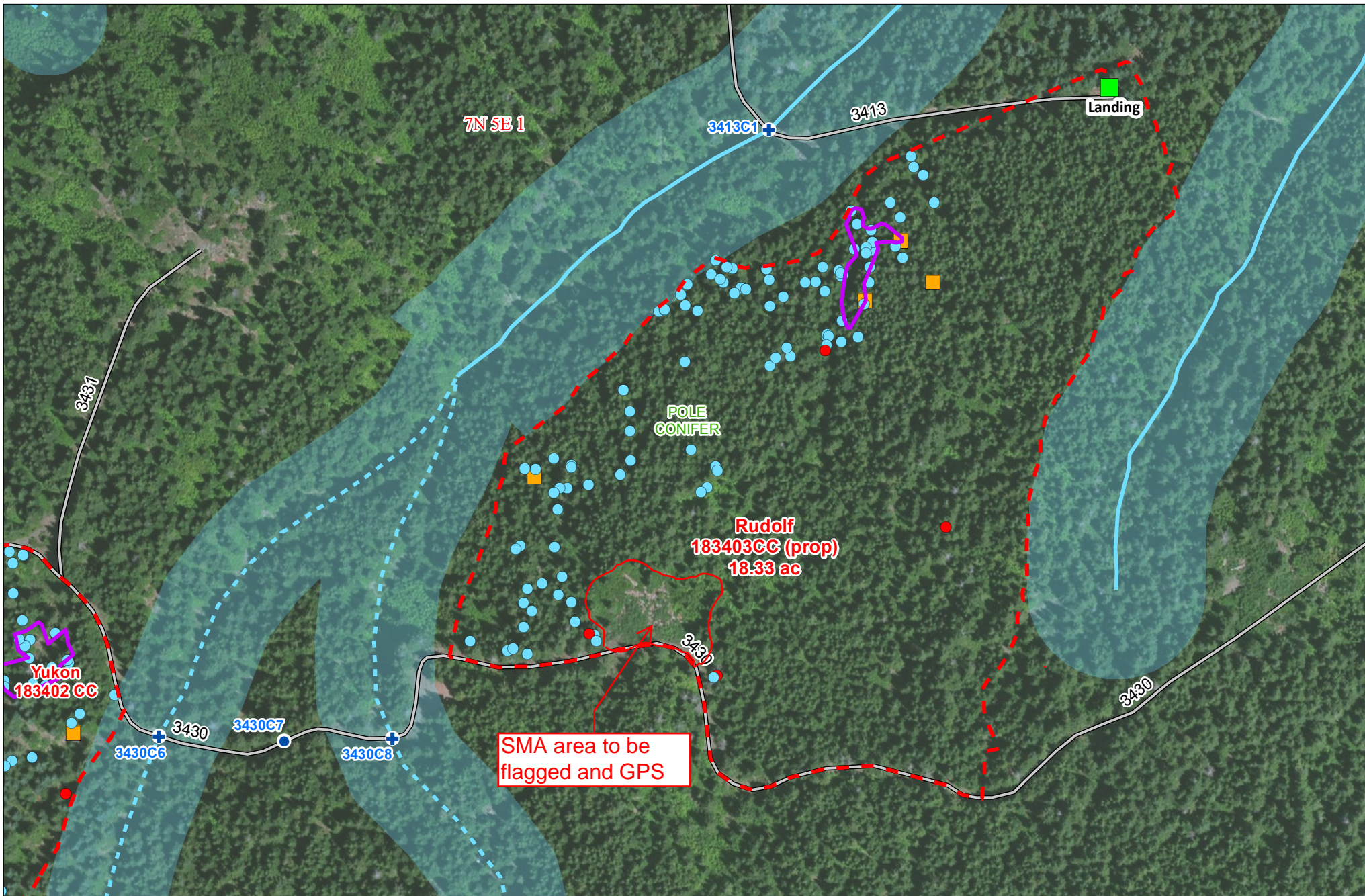
- Road
- Vegetation Cover
- PacifiCorp Land
- Section

- Non-fish Seasonal
- Shore/Stream Buffer
- = Road Block
- Ditch Culvert
- + Stream Culvert

- Grade (G)
- Other
- ★ Well

0 100 200
Feet
1:2,600





WHMP - Unit 34

2018 Proposed
Harvest Areas
183403 CC Rudolf

- Proposed Harvest
- Special Management Area
- Leave Tree
- Snag

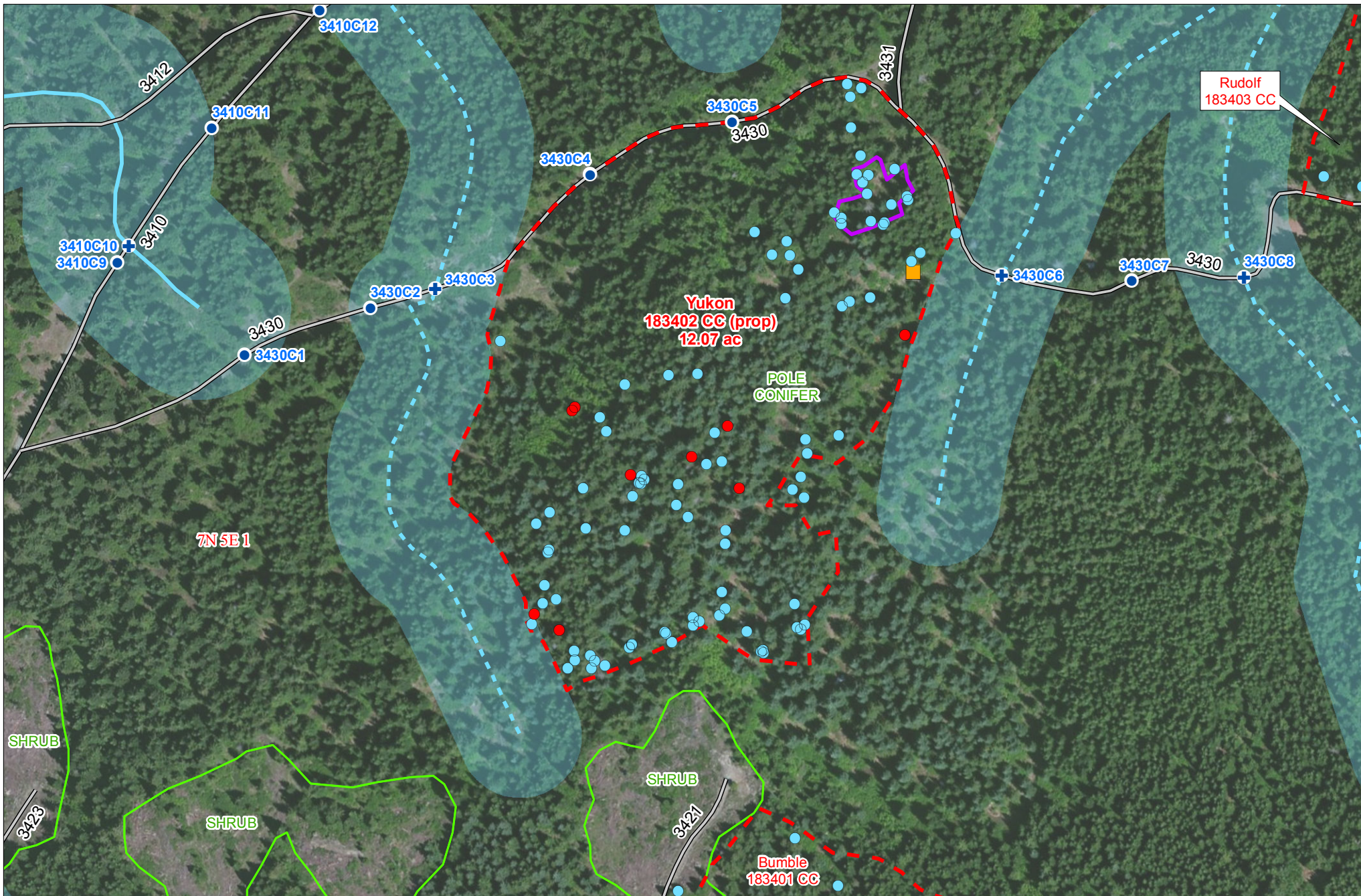
- Log
- Road
- Vegetation Cover
- PacifiCorp Land

- Non-fish Perennial
- - - Non-fish Seasonal
- Stream Buffer
- Section

- Landing
- Ditch Culvert
- + Stream Culvert

0 100 200
Feet
1:2,600





WHMP - Unit 34

**2018 Proposed
Harvest Area
183402 CC Yukon**

- Proposed Harvest
- Special Management Area
- Leave Tree
- Snag

- Log
- Road
- Vegetation Cover
- PacifiCorp Land

- Non-fish Perennial
- Non-fish Seasonal
- Stream Buffer
- Section

- Ditch Culvert
- + Stream Culvert

0 100 200
Feet

1:2,500



PACIFICORP