

DEPARTMENT OF NATURAL RESOURCES

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то:	Abraham Puz, Forester, South Puget Sound Region
FROM:	John Jenkins, LEG #1818, Forest Resources Division
SUBJECT:	Remote Review Update and Geology Field Visit Summary for the Juneau Timber Sale, Thurston County, Washington

REMOTE REVIEW AND SLGRR UPDATE

Remote review and SLGRR was first completed by Susie Wisehart in March 2021. Since then changes to the sale harvest units have occurred. Remote review and SLGRR were completed by John Jenkins based on unit limits shown in "Export_Output" layer you sent me last month and most recently the units shown in the Planned Harvest layer in the QDL from DNR GIS data. Summary comments from north to south:

Units 3 and 5:

Unit 3 was recently expanded to the east from what was the northern arm of unit 1. Unit 5 is a ROW unit from the E-9000 road. A possible small deep seated landslide (DSL) was delineated by Susie in the RMZ on the north side of unit 3. Regional (100K scale) geologic mapping shows all the sale units as basalt bedrock however glacial drift or outwash (both pre-Fraser and Fraser age) is shown to the east and south.

Geomorphology in the local area suggested possible E-W oriented drumlins thus ice-contact deposits may be present and therefore the landslide may have formed in glacial deposits, a Rule Identified Landform (RIL). As noted below a field visit to the landslide did not show glacial deposits and the feature is not a RIL. Other concerns are not present for unit 3 or unit 5 ROW (SLGRR "No" for unit 5).

<u>Unit 1</u>:

Remote review and SLGGR was updated as a piece was added to the south side in the northern portion. SLGRR was "Yes" to retain that designation by Susie however no specific geologic concerns are present for the new portion. A field visit was done in the southern portion of unit 1 as presented below.

<u>Unit 2</u>:

The current layout added land to the northeast part of the original unit. SLGGR was updated to "Possible" consistent with the original remote review by Susie. The additional area includes two adjacent DSLs delineated by Susie. The results of the geologist field visit are summarized below.

<u>Unit 4</u>:

This southern-most unit was added and later modified. Based on remote review SLGRR is "No" for this unit.

GEOLOGIST FIELD VISIT SUMMARY

The attached maps show the areas I visited with you units 1 and 2 on September 1, 2022 and my visit to unit 3 on October 19, 2022. My placemarks are shown but the track is not displayed for clarity. The maps also show the possible RILs identified during remote review by Susie.

<u>A (unit 1)</u>:

We identified an inner gorge segment along a type 5 creek and discussed exclusion in a leave tree area. I could not find your latest special management area layer (typically in SUMMA) to verify the landform was excluded.

<u>B (unit 1)</u>:

This area was a possible inner gorge. Field review indicated it was not a RIL.

<u>C (unit 1)</u>:

This was a suspected DSL that is south of the proposed harvest area. Field review indicated glacial deposits are not evident and the feature is not classified as a RIL.

<u>D (unit 2)</u>:

As noted above this area, added to the original unit, includes two adjacent suspected DSLs delineated by Susie. Field review found soils developed from basalt bedrock and no evidence of glacial deposits. We discussed leave tree clumps around the steeper toe portions (at or greater than 65 percent slope). Delivery potential appears low. I have not seen your current special management area (leave trees) for this landform.

<u>E (unit 2)</u>:

Field review confirmed a relatively small bedrock hollow is present in this area. I understand this may be a type 3 stream (and not type 5 suggested by DNR modeled stream layer). This feature should thus either be in a no harvest RMZ or leave tree clump if a type 5 stream.

Geologist Memo Juneau timber sale

F (unit 3):

I completed reconnaissance of the small DSL located within an RMZ on October 19, 2022. Evidence of glacial deposits was not found in test pits or elsewhere on the feature. The activity class is considered to be relict thus this feature is not a RIL.

Let me know if you have any questions or need additional field review.



John E. Jenkins, L.E.G.

ATTACHMENTS:

Figure 1: Units 1, 3 and 5 Figure 2: Unit 2



