Forest Practices Application/Notification
Office Checklist Page 1
Northwest Region

FPA/N #: 2817006
Received Date: 6-14-19
WDFW Concurrence Due Date: 
WDFW Concurrence Review Completed: 
Comments Due Date: 6-28-19
Decision Due Date: 7-14-19
FP Forester: CKY30
Shutdown Zone: 6S5E
RMAP #: R38019SD1

FPA/N CLASSIFICATION: [ ] I [ ] II [ ] III [ ] IVG [ ] IVS
Biomass [ ] FFFPP [ ] 20-acre exempt [ ]
Landowner Name: Timberland Assets
Project Name: 
WAU: Woodruff Creek

WRIA: Snohomish
WRIA: 
WRIA: 
Legal Description: NENE 5-28-7E
County: Snohomish

Activity Type: 
Harvest ac Spray ac Road Crossing(s)
Road Construction ft Abandonment ft Spoils cy

ALTERNATIVE PRESCRIPTIONS
[ ] Alternate Plan
[ ] Ten-Year Forest Management Plan
[ ] Columbia River Gorge National Scenic Area
[ ] Watershed Analysis: Woodruff Creek
[ ] Habitat Conservation Plan
[ ] Landowner Opton Plan for Northern Spotted Owl
[ ] Cooperative Habitat Enhancement Agreement

RESOURCE REVIEW
[ ] Unstable Slopes (Risk: Highway, Water;)
[ ] Soils Map (Highly Erodible & Very Unstable)
[ ] SLPSTAB
[ ] Landslide Hazard Zonation
[ ] Landslide Inventory Polygon
[ ] Rain-on-Snow and Outside Approved WA
[ ] Hydric Soils
[ ] Wetland [ ] Forested, [ ] A, [ ] B
[ ] In WMZ of [ ] A, or [ ] B Wetland
[ ] In RMZ/ELZ of Type [ ] S, [ ] F, [ ] N water
[ ] Water Verification

ASSOCIATED NON-SCANNED DOCUMENTS – On file with the FPA/N at the Region office.
[ ] SEPA Checklist/Documents
[ ] Large Landowner Road Maintenance and Abandonment Plan
[ ] Bull Trout Overlay
[ ] HCP Bull Trout Population
[ ] Bald Eagle nest or roost within 660 feet
[ ] Group A or B Water Supply
[ ] Hatchery (Name: )
[ ] Even-Aged Harvest greater than 120 Acres
[ ] Ground-Based Equipment on Slopes greater than 40%
[ ] Road Construction on Slopes greater than 65%
[ ] Saltwater Islands (Name: )
[ ] In or Over Typed Water
[ ] Volume greater than 5 mbf per acre

ASSOCIATED SCANNED DOCUMENTS
[ ] Conversion Option Harvest Plan
[ ] FPHP Plans & Specifications
[ ] Qualified Expert Report; Type:
[ ] Natural Regeneration Plan
[ ] Shoreline Permit
[ ] Marbled Murrelet Form
[ ] FPBM Appendix(s)
[ ] Small Landowner RMAP Checklist
[ ] CMZ Assessment Form

EARR Tax Credit [ ] Yes [ ] No
ADDITIONAL COMMENTS:

Form completed by A L
October, 2016 Version
**Forest Practices Application/Notification**  
**Western Washington**

**PLEASE USE THE INSTRUCTIONS TO COMPLETE THIS APPLICATION.**

1. **Landowner, Timber Owner and Operator**

<table>
<thead>
<tr>
<th>Legal Name of LANDOWNER</th>
<th>Legal Name of TIMBER OWNER</th>
<th>Legal Name of OPERATOR</th>
</tr>
</thead>
<tbody>
<tr>
<td>Timberland Assets, LLC</td>
<td>X Same as Landowner</td>
<td>X Same as Landowner</td>
</tr>
</tbody>
</table>

   | Mailing Address         | Mailing Address           | Mailing Address        |
   | 315 39th Ave. Suite 6   |                           |                        |

   | City, State, Zip        | City, State, Zip          | City, State, Zip       |
   | Puyallup, WA. 98373     |                           |                        |

   | Phone: 425-295-1183      | Phone:                     | Phone:                 |

   | Email: Timberland Assets@gmail.com | Email:                      | Email:                 |

2. **Contact Person**

   | Contact Person:          | Phone:                      | Email:                 |
   | Karl G. Stout, Consulting Forester, LLC | 360-391-0806               | stout85@wavecable.com  |

3. **Are you converting the land to non-forestry use within 3 years of harvest?**

   ☑ No  ☐ Yes  If yes, include your SEPA checklist and SEPA determination (if applicable) and county clearing and grading permit (if applicable).

4. **If you are harvesting timber, enter the Forest Tax Number of the Timber Owner:**

   800-082-482

   *Contact the Department of Revenue at 1-800-548-8829 for tax reporting information or to obtain a number.*

5. **Are you eligible for EARR Tax Credit?**  

   ☑ No  ☐ Yes  If yes, Check all that apply. If no, skip to Question 6.

   ☑ My entire proposed harvest area is on a single contiguous ownership consisting of one or more parcels.
☐ My proposed forest practices activities are within an area covered by an approved Forest
Stewardship Plan or Forest Management Plan developed in cooperation with DNR.
☐ I received technical assistance from a DNR small forest landowner Stewardship and Technical
Assistance Forester in preparing this FPAN.
☐ I have participated in a Washington State University Extension Service and/or DNR-sponsored
Forest Stewardship Coached Planning course.
☐ I have attended a Washington State University Extension Service and/or DNR-sponsored Family
Forest Owner Field Day.

6. Are you substituting prescriptions from an approved state or federal conservation agreement or Watershed
Analysis?
☒ No ☐ Yes  Write ‘HCP’ or ‘Using Prescriptions’ in tables that apply. Attach or reference prescriptions
and/or crosswalks for approved state or federal conservation agreements or Watershed Analysis
on file at the Region office.

7. What is the legal description of your forest practices?

<table>
<thead>
<tr>
<th>Section</th>
<th>Township</th>
<th>Range</th>
<th>E/W</th>
<th>Tax Parcel Number</th>
<th>County</th>
</tr>
</thead>
<tbody>
<tr>
<td>5</td>
<td>28 North</td>
<td>7</td>
<td>East</td>
<td>28070500100100</td>
<td>Snohomish</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>280705001000400</td>
<td>Snohomish</td>
</tr>
</tbody>
</table>

8. Have you reviewed this forest practices activity area to determine whether it may involve historic sites and/or
Native American cultural resources? Read the instructions before answering this question.
☐ No ☒ Yes If you made any contacts, please provide information in Question 28.

9. Do you have a DNR approved Road Maintenance and Abandonment Plan (RMAP)?
   a. ☐ No ☒ Yes If no, skip to c.,
      If yes, enter your RMAP number: ____________________, continue to b.
   b. ☐ No ☒ Yes Is this Forest Practices Application/Notification for work that is included in this approved RMAP?
   c. ☐ No ☒ Yes Is a Checklist RMAP required (see instructions)?

10. Are there potentially unstable slopes or landforms in or around the area of your forest practices activity?
    ☐ No ☒ Yes If yes, attach Appendix D. Slope Stability Informational Form and map of areas reviewed for and
locations of unstable slopes and landforms found. If applicable, attach a geotechnical letter, memo, or report, Watershed Analysis prescriptions, and/or a SEPA Environmental Checklist.

11. Is this Forest Practices Application/Notification (answer every question):
    a. ☒ No ☐ Yes A request for a multi-year permit? If yes, length requested: ☐ 4 years or ☐ 5 years.
       Not everyone qualifies for a multi-year permit. See instructions for details.
    b. ☒ No ☐ Yes An Alternate Plan? If yes, include a template or detailed plan. See instructions for details.
c. ☒No ☐Yes For a funded Forest Family Fish Passage Program project?

d. ☒No ☐Yes Within an urban growth area? If yes, see instructions for additional required documents.

e. ☒No ☐Yes Within a public park? If yes, include SEPA Environmental Checklist or SEPA Determination, except for harvest/salvage of less than 5,000 board feet within a developed public park. Park name: ________________________________

f. ☒No ☐Yes Within 500 feet of a public park? Park name: ________________________________

g. ☒No ☐Yes In an approved Conversion Option Harvest Plan (COHP) from the local government? If yes, include a copy. This only applies to proposals within urban growth areas.

h. ☒No ☐Yes Within 200 feet of the Ordinary High Water Mark (OHWM) or floodway of Type S Water? If yes, check with the county or city to determine whether a substantial development permit is required under the local shorelines master plan.

i. ☒No ☐Yes Within 50 miles of saltwater AND you own more than 500 acres of forest land in Washington State? If yes, include Marbled Murrelet Form or attach/reference HCP prescriptions.

j. ☒No ☐Yes In or directly adjacent to a potential Channel Migration Zone (CMZ)? If yes, include CMZ Assessment Form. Attach/reference applicable HCP and/or Watershed Analysis prescriptions.

You are required to verify all waters within 200 feet of your proposed forest practices activities prior to submitting a Forest Practices Application / Notification. Use the Water Type Classification Worksheet and/or a Water Type Modification form to explain how you verified water types. See Water Typing Requirements in the instructions.

**** If not working in or over typed Waters, skip to Question 16 ****

Prior to answering Questions 12-15 in this section please refer to the Forest Practices Application Instructions and Forest Practices Board Manual Section 5.

12. Are you proposing any of the following projects NOT permitted by current HPAs from WDFW?

   a. ☐ No ☐Yes Installing, replacing, or repairing a culvert at or below the bankfull width of Type S or F Water(s) that exceeds a five percent gradient?

   b. ☐ No ☐Yes Constructing, replacing, or repairing a bridge at or below the bankfull width of unconfined streams in Type S or F Water(s)?

   c. ☐ No ☐Yes Placing fill material within the 100-year flood level of unconfined streams in Type S or F Water(s)?

13. Have you consulted with DNR and/or WDFW about the proposed hydraulic project(s) in or over Type S or F Water? ☒ No ☐Yes

14. If installing, replacing, removing, or maintaining structures in or over any typed Water, complete the table below. Provide crossing locations and identifiers on your Activity Map. Provide plan details in Question 28 or attach plan to the FPA/N. Type S and F Waters require detailed plan information. Complex hydraulic projects in Type N Waters may also be required per WAC 222-24-042(2). See instructions for detailed plan requirements.
<table>
<thead>
<tr>
<th>Crossing Identifier (letter, number)</th>
<th>Water Type (S, F, Np, Na)</th>
<th>Existing HPA (if applicable)</th>
<th>Planned Activity (install, replace, remove, temporary, structure maintenance)</th>
<th>Structure (bridge, ford/equipment crossing**, puncheon/fill, arch, pipe arch, round culvert, other)</th>
<th>Proposed Size (width x length)</th>
<th>Culvert Design Method (no-slope, stream-sim, hydraulic, other) (F and S only)</th>
<th>Channel Bed Width (ft) (F and S only)</th>
<th>Stream Gradient (%) (F and S only)</th>
<th>Is this an RMAP Project?</th>
</tr>
</thead>
<tbody>
<tr>
<td>E Np N/A N/A</td>
<td>Replace</td>
<td>Culvert 18” Diameter</td>
<td>x 40’ Long</td>
<td>x</td>
<td>x</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*Existing HPAs issued by WDFW will be complied and enforced by WDFW until expiration. Plan details are not required for hydraulic projects permitted with an existing HPA (see instructions).

**Fords and/or equipment crossings on Type S and F Waters may result in an unauthorized incidental take of certain threatened or endangered fish species. For more information, see ‘Background for the State’s Incidental Take Permits for certain threatened and endangered fish species’ following Question 22 of the FPA/N instructions.

15. If conducting any of the following activities in or over typed Water(s), complete the table below. Some activities will require identifiers on the Activity Map and/or more information in Question 28. See instructions.

<table>
<thead>
<tr>
<th>*Activity</th>
<th>Type S Water</th>
<th>Type F Water</th>
<th>Type Np Water</th>
<th>Type Ns Water</th>
</tr>
</thead>
<tbody>
<tr>
<td>Equipment Crossing**</td>
<td>PROVIDE DETAILS IN QUESTION 14</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Suspending Cables</td>
<td></td>
<td></td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>Cable Yarding</td>
<td></td>
<td></td>
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<td></td>
</tr>
<tr>
<td>LWD Placement/Removal</td>
<td></td>
<td></td>
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<td></td>
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<tr>
<td>Beaver Dam Removal</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Felling and Bucking</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Other (describe in Question 28)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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**Fords and/or equipment crossings on Type S and F Waters must be identified in Question 14.

16. If constructing or abandoning forest roads, complete the table below. Show the road locations and Identifiers on the Activity Map. Include abandonment plans for all temporary roads and abandonment projects.

<table>
<thead>
<tr>
<th>Road Identifier (name, number)</th>
<th>Road Construction</th>
<th>Road Abandonment</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Length (feet)</td>
<td>Steepest Side-slope (%)</td>
</tr>
<tr>
<td>L-2312 (Extension)</td>
<td>1,300 feet</td>
<td>20 %</td>
</tr>
<tr>
<td>Spur &quot;A&quot;</td>
<td>300 feet</td>
<td>20 %</td>
</tr>
<tr>
<td>Spur &quot;A-1&quot;</td>
<td>160 feet</td>
<td>20 %</td>
</tr>
<tr>
<td>Spur &quot;B&quot;</td>
<td>150 feet</td>
<td>20 %</td>
</tr>
</tbody>
</table>

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<tr>
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<td></td>
</tr>
</tbody>
</table>

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** Fords and/or equipment crossings on Type S and F Waters must be identified in Question 14.

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<td></td>
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</tr>
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<td>L-2312 (Extension)</td>
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<td>Spur &quot;A&quot;</td>
<td>300 feet</td>
<td>20 %</td>
</tr>
<tr>
<td>Spur &quot;A-1&quot;</td>
<td>150 feet</td>
<td>20 %</td>
</tr>
<tr>
<td>Spur &quot;B&quot;</td>
<td>150 feet</td>
<td>20 %</td>
</tr>
</tbody>
</table>

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17. If depositing spoils and/or expanding or developing a rock pit for forestry use, complete the table below. Show locations and identifiers on the Activity Map.

<table>
<thead>
<tr>
<th>Spoil Area Identifier (letter, number)</th>
<th>Amount of Spoils Deposited (cubic yards)</th>
<th>Rock Pit Identifier (name, number or letter)</th>
<th>Acres of New Rock Pit Developed</th>
<th>Acres of Existing Rock Pit Expanded</th>
</tr>
</thead>
<tbody>
<tr>
<td>N/A</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

18. If operating within 200 feet of a wetland that is not associated with Type S or F Water, complete the table below. Wetlands associated with Type S or F water should be listed in Question 25. Show the boundaries of each wetland, along with its identifier, and Wetland Management Zones on the Activity Map. See instructions for information.

<table>
<thead>
<tr>
<th>Wetland Identifier (letter, number)</th>
<th>Wetland Type (A, B, Forested)</th>
<th>Planned Activities in Wetland</th>
<th>Planned Activities in Maximum Width WMZ</th>
<th>Total Wetland Acres</th>
<th>How many Acres will be drained?</th>
<th>How many Acres will be filled?</th>
</tr>
</thead>
<tbody>
<tr>
<td>N/A</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

***** If not harvesting or salvaging timber, skip to Question 27 *****

19. If harvesting or salvaging timber, complete the table below. Show all harvest areas and unit numbers on the Activity Map. For even-aged harvest units, also show surrounding stand information on the Activity Map.

<table>
<thead>
<tr>
<th>Unit Number</th>
<th>Harvest Type (Even-aged, Uneven-aged, Salvage, Right-of-Way)</th>
<th>Biomass Harvest (Y or N)</th>
<th>Harvest Method (rubber tired skidder, tracked skidder, dozer, shovel, full suspension cable, leading end suspension cable, helicopter, cable assisted/tethered logging, animal, chipper, forwarder, slash bundler)</th>
<th>Acres to be Harvested</th>
<th>Volume to be Harvested (mbf)</th>
<th>Biomass Volume to be Harvested (tonnage)</th>
<th>Volume to be Harvested (%)</th>
<th>Steepest Slope in Harvest Unit (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Even-aged</td>
<td>NO</td>
<td>Rubber Tired Skidder</td>
<td>15</td>
<td>350 mbf</td>
<td></td>
<td>98 %</td>
<td>35 %</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Tracked Skidder, Dozer and/or Shovel</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Even-aged</td>
<td>NO</td>
<td>Cable, Full Suspension</td>
<td>17</td>
<td>390 mbf</td>
<td></td>
<td>98 %</td>
<td>70 %</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Lead End Suspension</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
20. Reforestation. Check all that apply:

☒ Planting. Tree Species: Douglas fir
☐ Natural. Include a Natural Regeneration Plan
☐ Not required because of one or more of the following:
  ☐ I am converting some or all of this land to non-forest land in the next 3 years or lands are exempted under WAC 222-34-050.
  ☐ Individual dead, dying, down, or wind-thrown trees will be salvaged.
  ☐ Trees are removed under a thinning program reasonably expected to maximize the long-term productivity of commercial timber.
  ☐ I am leaving at least 100 vigorous, undamaged, and well-distributed saplings or merchantable trees per acre.
  ☐ An average of 190 tree seedlings per acre are established on the harvest area and my harvest will not damage them.
  ☐ Road right-of-way or rock pit development harvest only.

** Do you own MORE than 80 acres of forest land in Washington? If yes, skip to Question 25 **

21. Are you using the exempt 20-acre parcel riparian management zone (RMZ) rule (WAC 222-30-023) on Type S, F, or Np Waters?

☒ No Skip to Question 25.
☐ Yes Continue to Question 22. See instructions for qualifications and information.

22. Choose the answer below that best fits your situation. Show all RMZs on the Activity Map.

☒ a. ALL of the following apply to me and my land: (If no, answer b.)
  - Between June 5, 2006 and today's date I have always owned less than 80 acres of forest land in Washington.
  - Between June 5, 2006 and today's date this parcel has always been 20 acres or less of contiguous ownership. See RCW 76.09.020 for definition of 'contiguous'.
  - Between June 5, 2006 and today's date this parcel has always been owned by me or someone else that has less than 80 acres of forest land in Washington.

b. ONE OR MORE of the following apply to me and/or my land (check all that apply):
If any of the statements below apply AND you use the exempt 20-acre parcel RMZ rule, you are NOT authorized under the State's Incidental Take Permits (see explanation in FPA instructions under Question 22).

☐ Between June 5, 2006 and today's date I have owned more than 80 acres of forest land in Washington.

☐ Between June 5, 2006 and today's date this parcel has been a part of more than 20 acres of contiguous ownership. See RCW 76.09.020 for definition of 'contiguous'.

☐ Between June 5, 2006 and today's date this parcel has been owned by someone that has owned more than 80 forested acres in Washington.
23. If harvesting within 115 feet of a Type S or F Water on an exempt 20-acre parcel, complete the table below. Show RMZs and stream segment identifiers on the Activity Map. If you are harvesting within 75 feet or within the maximum RMZ (whichever is less), stream shade must be assessed and met following harvest. Describe in Question 28 how stream shade was determined to be met, using the 'Appendix F. Stream Shade Assessment Worksheet' if necessary.

<table>
<thead>
<tr>
<th>Stream Segment Identifier (letter)</th>
<th>Water Type (S, F)</th>
<th>Segment Length (feet)</th>
<th>Bankfull Width (feet)</th>
<th>RMZ Maximum Width (feet)</th>
<th>Are you harvesting within the maximum RMZ? (Y or N)</th>
</tr>
</thead>
<tbody>
<tr>
<td>N/A</td>
<td></td>
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</tbody>
</table>

24. Are you harvesting within 29 feet of a Type Np Water on an exempt 20-acre parcel?

☐ No    Skip to Question 27.

☐ Yes    See instructions and describe leave tree strategy in Question 28. Then skip to Question 27.

25. If harvesting within 200 feet of any Type S or F Water or periodically inundated areas of their associated wetlands, complete the table below. Include Desired Future Condition (DFC) for all inner zone harvests unless you have an HCP prescription. Show RMZs, CMZs, and stream segment identifiers on the Activity Map. If you are harvesting within 75 feet or within the maximum RMZ, whichever is less, stream shade must be assessed and met following harvest. Describe in Question 28 how stream shade was determined to be met or use the 'Appendix F. Stream Shade Assessment Worksheet' if necessary.

<table>
<thead>
<tr>
<th>Stream Segment Identifier (letter)</th>
<th>Water Type (S, F)</th>
<th>Site Class (I - V)</th>
<th>Stream Width (feet)</th>
<th>Is there a CMZ? (Y or N)</th>
<th>RMZ Harvest Code(s) (see instructions)</th>
<th>DFC Run Number</th>
<th>Total width of RMZ (feet)</th>
</tr>
</thead>
<tbody>
<tr>
<td>N/A</td>
<td></td>
<td></td>
<td></td>
<td></td>
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</tbody>
</table>

26. If harvesting within 50 feet of Type Np Water, complete the table(s) below. Show RMZs and stream segment identifiers on the Activity Map.

<table>
<thead>
<tr>
<th>Stream Segment Identifier (letter)</th>
<th>Total Stream Length in Harvest Unit (feet)</th>
<th>Length of No-Harvest, 50-foot Buffers in Harvest Unit (feet)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Stream Segment Identifier (letter)</th>
<th>Total Stream Length in Harvest Unit (feet)</th>
<th>Length of No-Harvest, 50-foot Buffers in Harvest Unit (feet)</th>
</tr>
</thead>
</table>
27. How are the following currently marked on the ground? (Flagging color, paint color, road, fence, etc.)

Harvest/Salvage Boundaries: Bright Pink Flagging

Clumped Wildlife Reserve Trees/Green Recruitment Trees: Painted Bright Orange "W"

Right-of-Way Limits/Road Centerlines: Orange Flagging "TRUCK ROAD"

Stream Crossing Work: 

Riparian Management Zone Boundaries and Leave/Take Trees: 

Channel Migration Zone: 

Wetland Management Zone Boundaries and Leave/Take Trees: 

28. Additional Information (attach additional pages if necessary): For hydraulic projects in or over Type S, F, or complex N Water(s) see instructions for required plan information. If applicable, include mitigation measures from a geotechnical memo, letter, or report.

See Exhibit "B" Geotech Report map
29. We acknowledge the following:

- The information on this application/notification is true.
- We understand this proposed forest practice is subject to:
  - The Forest Practices Act and Rules AND
  - All other federal, state or local regulations.
- Compliance with the Forest Practices Act and Rules does not ensure compliance with the Endangered Species Act or other federal, state or local laws.
- If we said that we would not convert the land to non-forestry use, the county or city may deny development permits on this parcel for the next 6 years.
- The following may result in an unauthorized incidental take of certain endangered or threatened fish species:
  - Conversion of land to non-forestry use.
  - Harvesting within the maximum RMZ on a 20-acre exempt parcel that was acquired after June 5, 2006.
  - Equipment Crossings/Fords in or over Type S and F Waters.
- Inadvertent Discovery – Chapters 27.44, 27.53, 68.50 and 68.60 RCW
  - If you find or suspect you have found an archaeological object or Native American cairn, grave, or glyptic record, immediately cease disturbance activity, protect the area and promptly contact the Department of Archaeology and Historic Preservation at 360 586-3077.
  - If you find or suspect you have found human skeletal remains, immediately cease disturbance activity, protect the area, and contact the County Coroner or Medical Examiner and local law enforcement as soon as possible. Failure to report human remains is a misdemeanor.

The landowner understands that by signing and submitting this FPA, he/she is authorizing the Department of Natural Resources to enter the property in order to review the proposal, inspect harvest operations, and monitor compliance for up to three years after its expiration date. RCW 76.09.150

<table>
<thead>
<tr>
<th>Signature of Legal LANDOWNER</th>
<th>Signature of Legal TIMBER OWNER* (If different than landowner)</th>
<th>Signature of Legal OPERATOR (If different than landowner)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dan Miller</td>
<td></td>
<td>Dan Miller</td>
</tr>
<tr>
<td>Print Name: Dan Miller</td>
<td>Print Name:</td>
<td>Print Name: Dan Miller</td>
</tr>
<tr>
<td>Date: X 4/26/2019</td>
<td>Date:</td>
<td>Date: X 4/26/2019</td>
</tr>
</tbody>
</table>

* NOTE: If you are a "Perpetual Timber Rights Owner," and are submitting this without the Landowner's Signature, provide written evidence the landowner has been notified.

Please make a copy of this FPA/N for your records. If this FPA/N contains a hydraulic project requiring WDFW concurrence review, it will not be available online for public review until after the WDFW concurrence review period.
Appendix D. Slope Stability Informational Form

Complete and attach this form to your FPA/N if you answered 'Yes' to FPA Question 10. Refer to WAC 222-16-050(1)(d) and Forest Practices Board Manual Section 16—Guidelines for Evaluating Potentially Unstable Slopes for definitions and descriptions of potentially unstable slopes or landforms.

1. a. What preliminary screening tools were used to identify unstable slopes or landform features in and/or around your proposal?
   - Aerial Photo, LiDAR, Landslide Inventory, Landslide Hazard Zones, GIS,
   - Other, describe:

   b. Did any of the features identified during the preliminary screening (1.a.) not exist when you performed a field review? If yes, describe:
      
      No

2. a. Are you conducting forest practices activities in or over potentially unstable slopes or landforms? Check all that apply:
   - Inner Gorge
   - Groundwater recharge areas for glacial deep-seated landslides
   - Bedrock Hollow
   - Convergent Headwall
   - Toe of deep-seated landslide
   - Outer edges of meander bends
   - Other (Deep-seated landslides or other features of potentially unstable slopes). Describe:
      
      None Found

   b. What activities may occur in or over potentially unstable slopes or landforms? Check all that apply:
      - Timber harvest
      - Road construction
      - Suspending cables
      - Yarding
      - Tailholds

3. a. Are you conducting forest practices activities around potentially unstable slopes or landforms? Check all that apply:
   - Inner Gorge
   - Groundwater recharge areas for glacial deep-seated landslides
   - Bedrock Hollow
   - Convergent Headwall
   - Toe of deep-seated landslide
   - Outer edges of meander bends
   - Other (Deep-seated landslides or other features of potentially unstable slopes). Describe:

   b. What activities may occur around potentially unstable slopes or landforms? Check all that apply:
      - Timber harvest
      - Road construction
      - Suspending cables
      - Yarding
      - Tailholds

2817006

Rev 10/1/2018
4. a. Were any features identified in question 3.a. excluded from your forest practices activity?
   ☐ No, skip to question 5. ☒ Yes, continue to question 4.b.

b. Describe the field indicators you used to exclude potentially unstable slopes or landforms from your forest practices activity (i.e.: flagging was placed a crown width away from the break in slope of the inner gorge): 

Excluded (flagged to be out of Timber Harvest Area) theee slopes in the inner-gorge areas that may have the potential of being unusable.

5. Are there areas of public use (which may include, but are not limited to: public roads, utilities, designated recreation areas, occupied structures, etc.) located in or around the area of your proposed forest practices activity?
   ☒ No ☐ Yes, Show these locations on the map in question 7.

6. Date(s) of field review(s): 25 January 2019

Person(s) that conducted field review(s): Andy Caneday GEO Engineer

Name Title/position

Name Title/position

7. Attach a map that shows the following:
   - All areas reviewed.
   - Locations of unstable slopes and landforms that were identified as described in question 2.a. and 3.a. above.
   - Locations where areas of public use exist as described in question 5 above.

This map is intended to be developed by the field practitioner. This can be a forest practices activity map, harvest map, or GIS map – See attached example.

1. No unstable slopes found
2. No areas of public use. This is an isolated parcel of land

Revised 10/1/2018

2817006
This Map Prepared
by Andy Canedy
GeoEngineers
Land Slide Polygons

Land Slide Polygon # ____________________

I have inspected the areas shown on the Forest Practices Application Mapping Tool on the ground. See Exhibit “A”. I was not able to find a number for this Land Slide Polygon.

What I did find on the ground is:


At about elevation 800 feet there is a layer of sand. Above this layer of sand is a layer of unknown thickness of sand / gravel. It appears that the source water for the Np portion of this watercourse is from this sand / gravel layer. I suspect that the sand was created when a glacier lake was formed in this area. The sand / gravel layer was probably formed by moving water during the time of the glacier.

I inspected the channel formed by water in each of these separate water courses for this sand layer and the sand / gravel layer.

I did not see any evidence of any type of Land Slides, (recently or post glacier times) in these water course areas, inner gorge areas or the steep slopes in this FPA area.

Karl G. Stout
1-360-391-0806
stout85@wavecable.com
Note-

The Harvest Units on this Property follow the Map as prepared by Andy Canedy

Not this Map

2817006

May 23, 2019

The Herbrand Company
315 39th Avenue SE, Suite 6
Puyallup, Washington 98373

Attention: Scott Hagerman

Subject: Forest Practices Geotechnical Evaluation
Storm Lake Harvest Unit
Section 5, T28N, R7E
Skagit County, Washington
File No. 15608-002-00

GeoEngineers, Inc. (GeoEngineers) is pleased to present the results of our forest practices geotechnical evaluation of the Storm Lake Harvest Unit in the Woods Creek Administrative Unit (WAU) in Snohomish County, Washington. Prior to our site visit, the harvest unit had been evaluated by Karl Stout (forester). The Herbrand Company requested an evaluation by a “qualified expert” to evaluate the presence of unstable areas and Rule-identified Landforms (RILs) within the vicinity of the proposed harvest unit, and to supplement the Forest Practices Application (FPA) to the Washington State Department of Natural Resources (DNR). The location of each area evaluated as part of this study is presented in Figure 1, Unstable Slopes Map.

This evaluation was performed by Mr. Andrew J. Caneday, a licensed engineering geologist (No. 2555) in Washington and designated by DNR as a “qualified expert” for timberland slope stability evaluation.

PURPOSE AND SCOPE OF SERVICES

The purposes of this evaluation were to: (1) evaluate areas of concern identified during our office review; (2) assess the potential impacts of the proposed forest practices on slope stability; and (3) provide mitigation recommendations to minimize potential adverse impacts on slope stability from harvest activities, if necessary. Specifically, we completed the following scope of services:

- Reviewed available maps, reports and other information pertinent to the site.
- Interpreted historical aerial photographs and Light Detection and Ranging (LiDAR)-derived imagery and maps of the site.
- Performed a field reconnaissance of the harvest unit.
- Evaluated the potential effects of the proposed harvest activities on slope stability in the project area.
- Evaluated the potential for sediment delivery to public resources in the event of a landslide within the unit, based on our office review and site reconnaissance.
- Provided this letter summarizing our observations, conclusions and recommendations.

SITE AND PROJECT DESCRIPTION

The proposed harvest area is in Section 5, T28N, R7E in Snohomish County, Washington. The proposed harvest unit is located on a west-facing slope east of West Fork Woods Creek, a tributary of Carpenter Creek and the South Plichuck River. The harvest area is bordered by the State of Washington (DNR and the State Forest Board) ownership to the north, east and south. W&D Investments, Inc. owns the property to the west of the proposed harvest unit.

In this proposed harvest unit, harvesting will occur on planar slopes ranging between 25 to 70 percent; however, ground exceeds 100 percent locally. The slopes within the proposed harvest units are dissected by several seasonal (Type Ns) and perennial (Type Np) steam, many of which qualify as inner gorges. Slope inclinations within these features can exceed 100 percent. Based on aerial photographs, the property was last harvested in the late 1980s. We understand that approximately 2,000 feet of existing road will be reconstructed as part of this FPA.

It is our understanding that The Herbrand Company proposes to utilize a combination of cable and ground-based yarding methods to harvest the proposed unit.

GEOLOGIC AND SOIL CONDITIONS

The published 1:24,000-scale geologic map for the area indicates that the proposed harvest unit is underlain by Oligocene to Eocene sandstone, non-glacial sand and gravel, glacially-derived sedimentary deposits including lacustrine and outwash, and landslide deposits (Dragovich et al., 2015). We observed glacial sediments exposed within the incised drainages. Soils are classified as gravelly loam of the Tokul series and gravelly loam of the Tokul-Winston series (Washington State Division of Forest Land Management 1983).

LANDSLIDE ACTIVITY

Our assessment of the landslide activity within and adjacent to the proposed harvest unit is based on a review of the DNR statewide landslide inventory and landslide hazard zonation, geologic maps, a review of LiDAR-derived hillshades and topography, a review of aerial photography and orthophotos of the project site (various photos from 1990 to 2016), and our site reconnaissance.

The DNR landslide inventory shows several mapped landslides within the vicinity of the Storm Lake Harvest unit. The approximate location of each mapped landslide is shown in Figure 1. Below is a summary of each landslide, including a general description of the location, activity and source.
Failure mapped by DNR (#13665), located near the northwest corner of the proposed harvest unit. DNR describes the failure type as shallow-undifferentiated. The feature appears to correspond to the potentially unstable slope (inner gorge) identified by this study (see Site 13). We did not observe any evidence on aerial photographs and LiDAR, or during our site visit, of a shallow slope failure in this area.

Failure mapped by DNR (#13666), located within the second drainage to the south of the northern property line. DNR describes the failure type as shallow-undifferentiated. The feature appears to correspond to the potentially unstable slope (inner gorge) identified by this study (see Site 12). We did not observe any evidence on aerial photographs and LiDAR, or during our site visit, of a shallow slope failure in this area.

Large failure mapped by DNR (#13751), located within the southwest portion of the proposed harvest unit. DNR describes the failure type as shallow, sporadic deep-seated. The feature appears to overlap several potentially unstable slope (inner gorges and shallow failures) identified by this study (see Site 7, 8, 9 and 1C); however, we did not observe any evidence on aerial photographs and LiDAR, or during our site visit, of a large, deep-seated landslide in this area.

The 1:24,000 geologic map of the area (Dragovich, et al. 2015) shows two very large, deep-seated landslides mapped partially within the harvest unit. One landslide is shown along the base of the incised slope, near the western harvest unit boundary. We did not observe any evidence on aerial photographs and LiDAR, or during our site visit, of a large, deep-seated landslide in this area. The second landslide is located along the eastern boundary of the proposed harvest unit. A portion of the scarp and landslide deposit are shown within the proposed unit. The landslide is visible on the LiDAR hillshade (see Figure 1), although the actual landslide does not cover the entire mapped extent. The LiDAR data and aerial photographs suggest the landslide is very old (relict-distinct) based on the uniform to undulating terrain and lack of sharp features. Similar large landslides in this region may have been triggered by large seismic events (Nason, et al. 1988). The Woods Creek Fault Zone runs through the project site.

As part of the Woods Creek watershed analysis study, the steeper, incised slope that cuts through the proposed harvest unit has been mapped by DNR as Mass Wasting Unit (MWU) 3-1. As described by DNR, MWU 3-1 has a moderate instability potential and is sensitive to both road and harvest effects. As shown in Figure 1 and describes below, the slope in question has been incised by several streams, many of which qualify as inner gorges. We recommend these features be excluded from the proposed harvest unit.

SITE OBSERVATIONS AND RECOMMENDATIONS

The following observations were made in the field on January 25, 2019, with Scott Hagerman of The Herbrand Company. The approximate location of each site observation is shown on Figure 1.

Site 1 is located at the scarp of a relict, deep-seated landslide visible on the LiDAR hillshade and depicted on the geologic map of the area. The scarp is generally inclined up to 50 percent and supports straight conifers and in-place old-growth stumps. We observed no signs of instability and, in our opinion the feature is likely a relict-distinct, deep-seated landslide, based on the morphology of the slope and presence of old-growth stumps, and has a low probability of reactivation. A large portion of the scarp and deposit of the feature was recently harvested by State Lands.
Site 2 is a stream channel that runs southwest through the proposed harvest unit on ground inclined at about 20 percent. The stream was flowing water at the time of our site visit on January 25. The side slopes of the drainage are inclined at about 30 percent and are less than 5 feet high. In our opinion, this portion of the drainage does not qualify as an inner gorge.

Site 3 is a stream channel that runs southwest through the proposed harvest unit for approximately 250 feet before going subsurface. The stream was flowing water at the time of our site visit on January 25. The side slopes of the drainage are inclined at 60 to 65 percent and are approximately 10 feet high. In our opinion, this portion of the drainage does not qualify as an inner gorge.

Site 4 is located on ground inclined at 30 to 40 percent that supports a mix of alder and straight conifer. A stream channel with only minor incision cuts through the area. We observed no signs of instability in this area during our site visit.

Site 5 is at a divergent slope inclined at 50 to 55 percent and located just below the existing road. The slope primarily supports straight conifer with some occasional old growth stumps. We observed no signs of instability in this area during our site visit.

Site 6 is located below a 20-foot high slope inclined at over 100 percent. Small areas devoid of vegetation, likely a result of surficial failures, expose rounded to sub-rounded compact sand and gravel. The steep slope has an arcuate shape and supports scattered young alder. The ground below the slope is inclined at 20 to 25 percent and supports young alder and in-place old growth stumps. We observed evidence of material building up on the upslope side of the old growth stumps near the base of the steep slope. The nearest typed water downslope of the steep slope is about 700 feet away. In our opinion, the steep slope shows signs of shallow instability but failures from the slope have a low potential to deliver sediment to typed water. In our opinion, this area could remain within the proposed harvest unit.

Sites 7 and 8 are two narrow convergent areas located on planar 60 to 65 percent slope. Both features have discontinuous stream channels through the center. The features show signs of surficial instability, including bare ground, small scarp and young alder. Recent erosion was visible along both sides of the feature. We recommend that both convergent features be excluded from the proposed harvest unit.

Site 9 is a 100 percent, arcuate-shaped slope located upslope of a Type Np stream channel. The steep slope primarily supports slightly bowed conifer. Below the steep slope, the ground is inclined at 45 percent and supports straight conifer and in-place old growth stumps. Locally, the old-growth stumps have material piled up on the upslope side, likely a result of surficial failures from the steep slope. The Type Np stream channel is located about 50 feet from the base of the steep slope. In our opinion, the steep slope shows signs of shallow instability and failures initiating on the slope have the potential to delivery sediment to the Type Np stream. We recommend that the feature be excluded from the proposed harvest area.

Site 10 is a relict deep-seated landslide approximately 30 feet wide with a 15-foot-high scarp. The old scarp supports bowed conifer and the slope shows signs of surficial soil creep. An inner gorge is located at the bottom of the feature and is inclined 70 to 80 percent toward a type Np stream. Further upstream the slope becomes shallower with inclinations of 60 to 65 percent; however, the ground is hummocky and shows signs of historic movement including small slumps and bowed conifer. Based on the morphology of the slope, the proximity to an inner gorge, and the high potential for sediment delivery to typed water, we recommend that this slope be excluded from the proposed harvest unit.
Site 11 is located on the north side slope of the Type Np stream basin described in Site 10. The side slope is inclined at 75 to 85 percent and supports bowed conifer and hardwoods. Several narrow, convergent areas extend approximately 100 to 150 feet down the side slope to the Type Np stream below. No in-place old growth stumps were observed. A well-defined break-in-slope defines the upper extent of the feature. Above the break, the ground is inclined at 15 percent and supports straight conifer and in-place old-growth stumps. In our opinion, the side slope qualifies as an inner gorge. We recommend that the feature be excluded from the proposed harvest unit. The harvest boundary should be flagged along the well-defined break-in-slope.

Site 12 is an inner gorge with slope inclinations of 75 to 85 percent. The ground supports bowed conifer and hardwoods. The area shows signs of historic instability and no in-place old growth stumps were observed. The ground above the feature is inclined at 15 to 45 percent and supports straight conifer and in-place old-growth stumps. We recommend that the inner gorge slope be excluded from the proposed harvest unit. The harvest boundary should be flagged along the well-defined break-in-slope.

Site 13 is an inner gorge with slope inclinations of 75 to 100 percent. The ground supports bowed conifer and hardwoods. The ground above the feature is inclined at 15 to 45 percent and supports straight conifer and in-place old-growth stumps. We recommend that the inner gorge slope be excluded from the proposed harvest unit. The harvest boundary should be flagged along the well-defined break-in-slope.

CONCLUSIONS

Based on our site visit and review of pertinent maps, reports and aerial photographs of the site, it is our opinion that the proposed harvest unit avoids unstable areas and RILs. Several landslides have been mapped in the vicinity of the proposed harvest unit; however, for most of the features we were unable to identify evidence of large-scale movement within the areas defined by the mapped polygons. We were able to identify evidence of a very large, deep-seated landslide to the east of the proposed harvest unit; however, in our opinion this feature is relict in age based on the presence of in-place old-growth stumps and slope morphology. We also identified several inner gorges located above the stream channel that cross through the project site; however, we recommend that these features be excluded from the area proposed for harvest. The proposed forest practices are unlikely to cause or contribute to further movement on potentially unstable slopes or landforms because the features that were recognized by this evaluation as unstable or potentially unstable have been flagged out of the proposed harvest.

LIMITATIONS

We have prepared this report for use by The Herbrand Company for the Storm Lake Harvest Unit. We provided our services to evaluate potential impacts of proposed harvest and road rehabilitation activities on specific sites within the harvest unit. Our recommendations are intended to minimize adverse impacts on slope stability from forest practices. However, forest practices on slopes involve risk, only part of which can be mitigated through qualified engineering and harvest practices. Favorable performance of slopes in the near term does not imply a certainty of long-term performance, especially under conditions of adverse weather or seismic activity.
Within the limitations of scope, schedule and budget, our services have been executed in accordance with generally accepted practices in the field of engineering geology in this area at the time this report was prepared. No warranty or other conditions, express or implied, should be understood.

Please refer to Appendix A titled “Report Limitations and Guidelines for Use” for additional information pertaining to use of this report.

REFERENCES


We appreciate the opportunity to provide services to The Herbrand Company. Please call if you have any questions concerning this report or if we can be of further assistance.

Sincerely,
GeoEngineers, Inc.

Andrew J. Caneday, LEG
Associate Engineering Geologist
CRG:AIC:can

Attachments:
Figure 1. Unstable Slopes Map
Appendix A. Report Limitations and Guidelines for Use

One copy submitted electronically

Disclaimer: Any electronic form, facsimile or hard copy of the original document (email, text, table, and/or figure), if provided, and any attachments are only a copy of the original document. The original document is stored by GeoEngineers, Inc. and will serve as the official document of record.

2817006
APPENDIX A
REPORT LIMITATIONS AND GUIDELINES FOR USE

This attachment provides information to help you manage your risks with respect to the use of this report.

Geotechnical Services Are Performed for Specific Purposes, Persons and Projects

This report has been prepared for use by The Herbrand Company. This report is not intended for use by others, and the information contained herein is not applicable to other sites.

GeoEngineers structures our services to meet the specific needs of our clients. For example, a geotechnical or geologic study conducted for a civil engineer or architect may not fulfill the needs of a construction contractor or even another civil engineer or architect that are involved in the same project. Because each geotechnical or geologic study is unique, each geotechnical engineering or geologic report is unique, prepared solely for the specific client and project site. No one except The Herbrand Company should rely on this report without first conferring with GeoEngineers. This report should not be applied for any purpose or project except the one originally contemplated.

A Geotechnical Engineering or Geologic Report Is Based on A Unique Set of Project-Specific Factors

This report has been prepared for the Storm Lake Harvest Unit Snohomish County, Washington. GeoEngineers considered a number of unique, project-specific factors when establishing the scope of services for this project and report. Unless GeoEngineers specifically indicates otherwise, do not rely on this report if it was:

- Not prepared for you.
- Not prepared for your project.
- Not prepared for the specific site explored.
- Completed before important project changes were made.

For example, changes that can affect the applicability of this report include those that affect:

- Elevation, configuration, location, or orientation of the proposed harvest unit.
- Project ownership.

If important changes are made after the date of this report, GeoEngineers should be given the opportunity to review our interpretations and recommendations and provide written modifications or confirmation, as appropriate.

---

1 Developed based on material provided by ASFE, Professional Firms Practicing in the Geosciences; www.asfe.org.
Subsurface Conditions Can Change

This geologic report is based on conditions that existed at the time the study was performed. The findings and conclusions of this report may be affected by the passage of time, by man-made events such as construction on or adjacent to the site, or by natural events such as floods, earthquakes, slope instability or groundwater fluctuations. Always contact GeoEngineers before applying a report to determine if it remains applicable.

Most Geotechnical and Geologic Findings Are Professional Opinions

Our interpretations of subsurface conditions are based on surficial observations and widely spaced exposures within roadcuts and stream channels at the site. GeoEngineers reviewed field data and then applied our professional judgment to render an opinion about subsurface conditions throughout the site. Actual subsurface conditions may differ, sometimes significantly, from those indicated in this report. Our report, conclusions and interpretations should not be construed as a warranty of the subsurface conditions.

Read These Provisions Closely

Some clients, design professionals and contractors may not recognize that the geoscience practices (geotechnical engineering or geology) are far less exact than other engineering and natural science disciplines. This lack of understanding can create unrealistic expectations that could lead to disappointments, claims and disputes. GeoEngineers includes these explanatory “limitations” provisions in our reports to help reduce such risks. Please confer with GeoEngineers if you are unclear how these “Report Limitations and Guidelines for Use” apply to your project or site.

Geotechnical, Geologic and Environmental Reports Should Not Be Interchanged

The equipment, techniques and personnel used to perform an environmental study differ significantly from those used to perform a geotechnical or geologic study and vice versa. For that reason, a geotechnical engineering or geologic report does not usually relate any environmental findings, conclusions or recommendations; e.g., about the likelihood of encountering underground storage tanks or regulated contaminants. Similarly, environmental reports are not used to address geotechnical or geologic concerns regarding a specific project.
Appendix I. Watershed Analysis Worksheet
(Use a separate worksheet for each Watershed Analysis)

Watershed Analysis Name: Woods Creek Watershed Analysis Unit

Check all of the following that apply:

- I have reviewed the Watershed Analysis Prescription documents and my proposal is not located on or adjacent to any of the described features. Prescriptions do not affect my proposal.
- I have reviewed the descriptions and maps for all prescriptions, and my proposal is located on or adjacent to the following prescription areas:
  - Surface Erosion Prescriptions
  - Mass Wasting Prescriptions
  - Hydrology Prescriptions
  - Water Quality
  - Water Supply / Public Works
  - Riparian – only applicable to landowners using the exempt 20-acre RMZ rule

Complete the following information for each prescription that affects your proposal or is adjacent to your proposal.
Identify the resource sensitivity name and whether or not you are implementing the prescriptions.
Attach required reports and additional information as necessary.

<table>
<thead>
<tr>
<th>Resource Sensitivity Name/No:</th>
<th>Implementing Prescription: □ Yes □ No</th>
</tr>
</thead>
<tbody>
<tr>
<td>Describe harvest techniques proposed</td>
<td>On the ground &lt;40% slope, ground based techniques will be used in harvest, such as: Tracked Skidder, wheeled skidder, shovel or dozer</td>
</tr>
<tr>
<td>Describe road techniques proposed</td>
<td>Road construction will be accomplished by use of excavator, dozer and dump trucks.</td>
</tr>
<tr>
<td>Describe other techniques proposed</td>
<td>On ground &gt; 40% cable systems will be used.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Resource Sensitivity Name/No:</th>
<th>Implementing Prescription: □ Yes □ No</th>
</tr>
</thead>
<tbody>
<tr>
<td>Describe harvest techniques proposed</td>
<td></td>
</tr>
<tr>
<td>Describe road techniques proposed</td>
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<td></td>
</tr>
<tr>
<td>Describe other techniques proposed</td>
<td></td>
</tr>
</tbody>
</table>

DNR USE ONLY
Reviewed by: ________________________________ Date: __________

Revised: 10/1/2018
Portion of:

Woods Creek Watershed Analysis Unit

Landslide Initiation Sites

Twp. 28 North, Range 7 East, Section 5
Appendix A Water Type Classification Worksheet

Western Washington

1. Did you determine fish use as described in the Forest Practices Board Manual Section 13? Or, does the stream have waiver characteristics? [See WAC 222-16-0313(3)(b)(ii)]

☐ No. Continue
☐ Yes. Attach documentation or approved WTMF number:
☐ Fish found. Type F water. Stop.
☐ No fish. Continue to 6.
☐ Yes. Meets waiver criteria. Continue to 6.

2. Were fish observed or are fish known to use the stream any time of the year?

☐ No. Continue.
☐ Yes. Type F water. Stop.
☐ Yes. Type F water. Stop.
☐ Yes. Type F water. Stop.

3. Is there an impoundment (ponded water) upstream of the assessed segment that is greater than 0.5 acres?

☐ No. Continue.
☐ Yes. Type F water. Stop.
☐ Yes. Type F water. Stop.
☐ Yes. Type F water. Stop.

4. Are there segments within or upstream of the assessed portion of the stream where the average bankfull width is two feet or greater? AND, is the average stream gradient less than or equal to 16%?

☐ No. Continue.
☐ Yes. Type F water. Stop.
☐ Yes. Type F water. Stop.
☐ Yes. Type F water. Stop.

5. Are there segments within or upstream of the assessed portion of the stream where the average bankfull width is two feet or greater? AND, is the average stream gradient between 16% and 20%? AND, is the contributing basin to the stream greater than 50 acres?

☐ No. Continue.
☐ Yes. Type F water. Stop.
☐ Yes. Type F water. Stop.
☐ Yes. Type F water. Stop.

6. Does the stream segment contain water at all times during a normal rainfall year?

☐ Yes. Type Np water. Go to 9.
☐ No. Continue.
☐ Yes. Type Np water. Go to 9.
☐ No. Continue.

7. Is the stream segment downstream of a perennial source of water?

☐ No. Continue.
☐ Yes. Type Np water. Go to 9.
☐ Yes. Type Np water. Go to 9.
☐ Yes. Type Np water. Go to 9.

8. Is the stream physically connected by an above-ground channel to Type S, F, or Np water?

☐ No. non-typed water.
☐ Yes. Type Ns water.
☐ No. non-typed water.
☐ Yes. Type Ns water.

9. Describe how you determined the uppermost point of perennial flow. Include a description of its location and show the point on a map (Use a separate piece of paper if necessary).


Walked Water course  Walked Watercourse Walked Watercourse 2817006
# Appendix A: Water Type Classification Worksheet

**Western Washington**

<table>
<thead>
<tr>
<th>Stream/Segment ID:</th>
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</tr>
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<tbody>
<tr>
<td>&quot;D&quot;</td>
<td>&quot;E&quot;</td>
<td>&quot;E-1 &amp; E-2&quot;</td>
</tr>
<tr>
<td>Date(s) Observed:</td>
<td>23 MAY 2019</td>
<td>23 MAY 2019</td>
</tr>
</tbody>
</table>

1. Did you determine fish use as described in the Forest Practices Board Manual Section 13? Or, does the stream have waiver characteristics? [See WAC 222-16-031(3)(b)(ii)]

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<td>Date(s) Observed:</td>
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</table>

- No Continue
- Yes. Attach documentation or approved WTMF number:

<table>
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- No Continue
- Yes. Attach documentation or approved WTMF number:

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<tr>
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</tr>
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</table>

- No Continue
- Yes. Attach documentation or approved WTMF number:

- Fish found.
- Type F water. Stop.
- No fish. Continue to 6.
- Yes. Meets waiver criteria. Continue to 6.

2. Were fish observed or are fish known to use the stream any time of the year?

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<tr>
<td>Date(s) Observed:</td>
<td>23 MAY 2019</td>
<td>23 MAY 2019</td>
</tr>
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</table>

- No Continue
- Yes. Type F water. Stop.
- No. Continue

- Fish found.
- Type F water. Stop.
- No fish. Continue to 6.
- Yes. Meets waiver criteria. Continue to 6.

3. Is there an impoundment (ponded water) upstream of the assessed segment that is greater than 0.5 acres?

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<td>Date(s) Observed:</td>
<td>23 MAY 2019</td>
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</table>

- No Continue
- Yes. Type F water. Stop.
- No. Continue

- Fish found.
- Type F water. Stop.
- No fish. Continue to 6.
- Yes. Meets waiver criteria. Continue to 6.

4. Are there segments within or upstream of the assessed portion of the stream where the average bankfull width is two feet or greater? AND, is the average stream gradient less than or equal to 16%?

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- No Continue
- Yes. Type F water. Stop.
- No. Continue

- Fish found.
- Type F water. Stop.
- No fish. Continue to 6.
- Yes. Meets waiver criteria. Continue to 6.

5. Are there segments within or upstream of the assessed portion of the stream where the average bankfull width is two feet or greater? AND, is the average stream gradient between 16% and 20%? AND, is the contributing basin to the stream greater than 50 acres?

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<tr>
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<td>23 MAY 2019</td>
</tr>
</tbody>
</table>

- No Continue
- Yes. Type F water. Stop.
- No. Continue

- Fish found.
- Type F water. Stop.
- No fish. Continue to 6.
- Yes. Meets waiver criteria. Continue to 6.

6. Does the stream segment contain water at all times during a normal rainfall year?

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</tbody>
</table>

- No Continue
- Yes. Type Np water. Go to 9.
- No. Continue

- Fish found.
- Type Np water. Go to 9.
- No. Continue

7. Is the stream segment downstream of a perennial source of water?

<table>
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</table>

- No Continue
- Yes. Type Np water. Go to 9.
- No. Continue

- Fish found.
- Type Np water. Go to 9.
- No. Continue

8. Is the stream physically connected by an above-ground channel to Type S, F, or Np water?

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</table>

- No, non-typed water.
- Yes, Type Np water.
- No. Non-typed water.

- Fish found.
- Type Ns water.
- No, non-typed water.

9. Describe how you determined the uppermost point of perennial flow. Include a description of its location and show the point on a map (Use a separate piece of paper if necessary).

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Walked Watercourse  Walked Watercourse  Walked Watercourse  Walked Watercourse
Appendix A Water Type Classification Worksheet Western Washington

Stream/Segment ID: B-1 Stream/Segment ID: C-1 Stream/Segment ID: D-1
Date(s) Observed: 23 May 2019 Date(s) Observed: 23 May 2019 Date(s) Observed: 23 May 2019

1. Did you determine fish use as described in the Forest Practices Board Manual Section 13? Or, does the stream have waiver characteristics? [See WAC 222-16-031(3)(b)(ii)]

☐ No. Continue ☐ No. Continue ☐ No. Continue
☐ Yes. Attach documentation or approved WTMF number: ☐ Yes. Attach documentation or approved WTMF number: ☐ Yes. Attach documentation or approved WTMF number:
☐ Fish found. Type F water. Stop. ☐ Fish found. Type F water. Stop. ☐ Fish found. Type F water. Stop.

2. Were fish observed or are fish known to use the stream any time of the year?


3. Is there an impoundment (ponded water) upstream of the assessed segment that is greater than 0.5 acres?


4. Are there segments within or upstream of the assessed portion of the stream where the average bankfull width is two feet or greater? AND, is the average stream gradient less than or equal to 16%?


5. Are there segments within or upstream of the assessed portion of the stream where the average bankfull width is two feet or greater? AND, is the average stream gradient between 16% and 20%? AND, is the contributing basin to the stream greater than 50 acres?


6. Does the stream segment contain water at all times during a normal rainfall year?


7. Is the stream segment downstream of a perennial source of water?


8. Is the stream physically connected by an above-ground channel to Type S, F, or Np water?

☒ Yes. Type Ns water. ☒ No. non-typed water. ☒ Yes. Type Ns water. ☒ No. non-typed water. ☒ Yes. Type Ns water. ☒ No. non-typed water.

9. Describe how you determined the uppermost point of perennial flow. Include a description of its location and show the point on a map (Use a separate piece of paper if necessary).

Stream/Segment ID: B-1 Stream/Segment ID: C-1 Stream/Segment ID: D-1
Walked Water course Walked Water course Walked Water course
Map Legend

for

NE ¼ of the NE ¼ of
Section 5, Twp. 28 North Range 7 East
Snohomish County, WA.

(Map Not to Scale)

= Proposed Road Location

= Timber Harvest Boundary

= Delineation line between Harvest Unit #1 and
  Harvest Unit #2

Np = Watercourse Designation-“Non Fish Perennial”

Ns = Watercourse Designation-“Non Fish Seasonal”

= Watercourse Designation Break- Non Fish Perennial
  to Non Fish Seasonal

= Tie between segments of Harvest Unit #2

= Proposed Landing Site
SMALL FOREST LANDOWNER
CHECKLIST RMAP
WHEN TO SUBMIT A CHECKLIST RMAP

Submit this checklist with your Forest Practices Application/Notification (FPA/N) for harvest or salvage. If you have already submitted a Checklist for these roads, please contact the DNR region office. The Checklist is for existing roads on your forest land that have been used by anyone for a forest practice since 1974. Do not include haul roads on your neighbor’s property. Do not include skid trails.

THIS CHECKLIST APPLIES TO (Check one)

☒ The forest roads on my forest land that I will use for this FPA/N.Minimum Required

☐ I assessed all the forest roads on my forest land. Assessing all your forest roads is optional. If you choose this, you will not be required to submit additional checklists with future FPA/N’s. If you check this box, include a DNR Activity Map(s) that shows all your forest roads. Maps are available at DNR region offices and on the DNR website at: http://www.dnr.wa.gov/BusinessPermits/Topics/ForestPracticesApplications/Pages/fp_fpers.aspx. You need to know the legal description (section, township, and range) of your roads in order to request a map.

The approximate total number of miles of forest road assessed in this Checklist is: 0.3
This information will be used for statewide statistics.

FOREST ROAD ASSESSMENT

Please complete this section after you have assessed your forest roads.

☐ I need help with this section. (If you check this box, you may leave the rest of the boxes in this section blank. DNR will contact you)

The following boxes describe common sediment and road issues. Check all that apply.

☐ Water from the road or ditch runs directly into typed water.

☐ Water flows under, over, or around the culvert.

☐ The culvert keeps filling with dirt.

☐ The road has large cracks or ruts.

☐ The road has sinkholes. (Not a pothole – but a hole that you can’t drive over)

☐ Dirt from the uphill side of the road keeps falling into the ditch-line before regularly scheduled maintenance.

☐ Dirt from the cut-slope keeps falling downhill into or near a stream, pond, or wetland.

☐ There are indications of past surface erosion

☐ The road crosses typed water (a culvert, bridge, or ford exists).

☒ I have assessed my forest roads and they do not have any of the above issues.

FAMILY FOREST FISH PASSAGE PROGRAM

This is a program to fix fish passage barriers, such as culverts. Not all culverts are fish passage barriers. For an evaluation of your potential fish passage barrier please contact the DNR’s Small Forest Landowner Office in Olympia at (360) 902-1404 or go to www.dnr.wa.gov/lffpp for more information.
Check one of these boxes

☐ I choose to enroll in the Family Forest Fish Passage Program and would like to have my potential barrier evaluated for eligibility. I understand that by checking this box I may be required to provide cost-share associated with the barrier removal or replacement.

☐ I choose not to enroll in the Family Forest Fish Passage Program and accept responsibility for removing or repairing any artificial fish barrier on my forest roads at my own expense.

☐ This barrier is already enrolled in the Family Fish Passage Program.

ORPHANED ROADS
State law requires DNR to keep an inventory of orphaned roads that pose a risk to public safety or to public resources. Your help with this inventory is requested.

Orphaned roads are:
- Roads on your forest land that have not been used for forest activities since 1974. Forest Practices activities include timber cutting, timber hauling, tree planting, brush control, precommercial thinning, timber salvage, etc.

Check one of these boxes

☒ I do not have orphaned roads that I think pose a risk to public resources or public safety – such as houses, highways, county roads, streams, ponds, or wetlands.

☐ I have orphaned roads that I think may pose a risk to public resources or public safety – such as houses, highways, county roads, streams, ponds or wetlands. (Please show the locations of all these orphaned roads on a separate DNR Activity Map. This is not the same map that shows your harvest)

☐ I need help identifying orphaned roads.

ROAD MAINTENANCE OBLIGATIONS
All forest landowners have a legal obligation to maintain all their forest roads on all their forest land to the extent necessary to prevent damage to public resources. This includes forest roads not shown on this Checklist. Maintenance rules are in WAC 222-24-052. Best Management Practices (BMP's) for road maintenance are in the Forest Practices Board Manual Section 3. Both are in the forest practices rule book or on the DNR website at: http://www.dnr.wa.gov/BusinessPermits/Topics/ForestPracticesRules/Pages/Home.aspx

Road maintenance includes:
- Inspecting forest roads and fixing damage before, during, and after hauling timber and/or rock
- Keeping drainage structures (relief culverts, ditches, water bars, dips, etc.) and water crossings functional
- Making sure water from roads and ditches do not flow directly into streams, ponds, or wetlands

☒ My road(s) are maintained to Forest Practices standards.

LANDOWNER INFORMATION

I certify that at the time I submit this FPA/N I am a small forest landowner because:
- I have an average annual timber harvest level of two million board feet or less from my own forest land in Washington State; and
- I have not exceeded this average annual harvest level in the last three years; and
- I will not exceed this average annual harvest level for the next ten years.

Printed Name of Landowner: Forest Assets, LLC

Landowner Signature(s):

Complete this section only if you are not submitting an FPA/N

Mailing Address:______________________________

City:_________________ State:__________ Zip Code:______________

E-Mail Address (optional):____________________ Phone Number:____________________

Printed Name of Contact Person (If different from landowner): Karl G. Stout-

E-Mail Address (optional): stout85@wavecable.com Phone Number: 1-360-391-0806

09-26-2014

Checklist RMAP

Page 2 of 2
<table>
<thead>
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<th>DATE</th>
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<th>DESCRIPTION</th>
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<tr>
<td>7/10/2019</td>
<td>Revision</td>
<td>Replaced pg. 4 &amp; map; added maps</td>
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</table>
Forest Practices Application/Notification
Notice of Decision

FPA/N No: 2817006
Effective Date: 7/12/2019
Expiration Date: 7/12/2022
Shut Down Zone: 656
EARR Tax Credit: [x] Eligible  [ ] Non-eligible
Reference: Timberland Assets

Decision
[ ] Notification Operations shall not begin before the effective date.
[x] Approved This Forest Practices Application is subject to the conditions listed below.
[ ] Disapproved This Forest Practices Application is disapproved for the reasons listed below.
[ ] Closed Applicant has withdrawn FPA/N.

FPA/N Classification
[ ] Class II  [x] Class III  [ ] Class IVG  [ ] Class IVS

Number of Years Granted on Multi-Year Request
[ ] 4 years  [ ] 5 years

Conditions on Approval / Reasons for Disapproval
No additional conditions.

FOR YOUR INFORMATION:
Please notify DNR Northwest Region Office (360-856-3500) 48 business hours before commencing timber harvest operations.
Please provide the application number and legal description for your operation.

Issued By: Steven Huang
Title: Skykomish Forest Practice Forester
Copies to: [x] Landowner, Timber Owner and Operator.
Issued in person: [ ] Landowner [ ] Timber Owner [ ] Operator

Region: Northwest
Date: 7/12/2019

Washington State Department of Natural Resources • Notice of Decision • August 5, 2013
**Appeal Information**

You have thirty (30) days to appeal this Decision and any related State Environmental Policy Act determinations to the Pollution Control Hearings Board in writing at the following addresses:

**Physical address:** 1111 Israel Rd. SW, Ste 301, Tumwater, WA 98501

**Mailing address:** P.O. BOX 40903, OLYMPIA, WA 98504-0903

Information regarding the Pollution Control Hearings Board can be found at: [http://www.ejuho.wa.gov/](http://www.ejuho.wa.gov/)

At the same time you file an appeal with the Pollution Control Hearings Board, also send a copy of the appeal to the Department of Natural Resources' region office and the Office of the Attorney General at the following addresses:

Office of the Attorney General  
Natural Resources Division  
1125 Washington Street SE  
PO Box 40100  
Olympia, WA 98504-0100

**Department Of Natural Resources**  
Northwest Region  
919 N Township St  
Sedro-Woolley WA 98284

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**Other Applicable Laws**

Operating as described in this application/notification does not ensure compliance with the Endangered Species Act, or other federal, state, or local laws.

**Transfer of Forest Practices Application/Notification (WAC 222-20-010)**


**Continuing Forest Land Obligations (RCW 76.09.060, RCW 76.09.070, RCW 76.09.390, and WAC 222-20-055)**

Obligations include reforestation, road maintenance and abandonment plans, conversions of forest land to non-forestry use and/or harvest strategies on perennial non-fish habitat (Type Np) waters in Eastern Washington.

Before the sale or transfer of land or perpetual timber rights subject to continuing forest land obligations, the seller must notify the buyer of such an obligation on a form titled "Notice of Continuing Forest Land Obligation". The seller and buyer must both sign the "Notice of Continuing Forest Land Obligation" form and send it to the DNR Region Office for retention. This form is available at DNR region offices.

If the seller fails to notify the buyer about the continuing forest land obligation, the seller must pay the buyer's costs related to continuing forest land obligations, including all legal costs and reasonable attorneys' fees incurred by the buyer in enforcing the continuing forest land obligation against the seller.

Failure by the seller to send the required notice to the DNR at the time of sale will be prima facie evidence in an action by the buyer against the seller for costs related to the continuing forest land obligation prior to sale.

**DNR affidavit of mailing:**

On this day 7/12/2019, I placed in the United States mail at Sedro-Woolley, WA, postage paid, a true and accurate copy of this document. Notice of Decision FPA # 2817006

L Utgard  
(Printed name)

[Signature]

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Washington State Department of Natural Resources • Notice of Decision • August 5, 2013
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<td>7-24-19</td>
<td>Transfer Form</td>
<td>Change of 40, 70, &amp; 80</td>
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Forest Practices Application/Notification

NOTICE OF TRANSFER

I/we transfer my/our rights, privileges, and obligations under this approved Forest Practices Application or Notification. I/we affirm that the information contained below is true and agree to comply with the rules authorized by the Forest Practices Act and be bound by all conditions on the approved application or notification.

FPA/N Number: 2817006  Section(s): 5  Township: 28N  Range: 7E

Original Landowner (Signature): [Signature]
Original Landowner (Printed): Daniel Miller  Date: 7/16/2019

New Operator – Complete this section only if you are:

☑ Changing an operator for:  ☑ Timber harvest  ☐ Aerial spray
☐ Adding an operator for:  ☐ Road construction  ☐ Timber harvest  ☐ Aerial spray

Legal Name of New Operator: (Print) Dave Hambidge
Phone: 425-239-1373
Email: 

New Operator Signature: [Signature]  Date: 7/23/19

New Landowner – Complete this section only if you are transferring your FPA to a new landowner

☐ No  ☑ Yes  Are you a small forest landowner per RCW 76.09.450 (if yes, continue to question below)
☐ No  ☐ Yes  Is your entire proposed harvest area on a single contiguous ownership consisting of one or more parcel(s)?

Legal Name of New Landowner: (Print) Dave Hambidge
Phone: 425-239-1373
Email: 

New Landowner Signature: [Signature]  Date: 7/23/19

New Timber Owner – Complete this section only if you are transferring your timber rights

Legal Name of Timber Owner: (Print) Dave Hambidge
Phone: 425-239-1373
Email:

Forest Tax Reporting Account Number: (Contact Dept. of Revenue at: 1-800-548-8829) 604201703
New Timber Owner Signature: [Signature]  Date: 7/23/19

Received by:  [Signature]  Date: 7/24/19

(DNR Forest Practices Staff Signature) 11/01/2017