**Forest Practices Application/Notification**  
**Office Checklist Page 1**  
**Northwest Region**

<table>
<thead>
<tr>
<th>FPA/N CLASSIFICATION:</th>
<th>[ ] II</th>
<th>[ ] III</th>
<th>[ ] IVG</th>
<th>[ ] IVS</th>
<th>Biomass [ ]</th>
<th>FFPPP [ ]</th>
<th>20-acre exempt [ ]</th>
</tr>
</thead>
<tbody>
<tr>
<td>Landowner Name:</td>
<td>DNR</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>WRIA:</td>
<td>Snohomish</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>WAU:</td>
<td>Sultan River</td>
<td></td>
<td></td>
<td></td>
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<td></td>
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<tr>
<td>WRIA:</td>
<td></td>
<td></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>Legal Description:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Activity Type:</td>
<td>Harvest 118.60 ac</td>
<td>Spray ac</td>
<td>Road</td>
<td>Road Construction 14,600 ft</td>
<td>Abandonment 19720 ft</td>
<td>Spoils 1500 cy</td>
<td></td>
</tr>
</tbody>
</table>

**ALTERNATIVE PRESCRIPTIONS**
- [ ] Alternate Plan
- [ ] Ten-Year Forest Management Plan
- [ ] Columbia River Gorge National Scenic Area
- [ ] Watershed Analysis:

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

**ASSOCIATED NON-SCANNED DOCUMENTS**
- [ ] SEPA Checklist/Documents
- [ ] Habitat Conservation Plan
- [ ] Landowner Option Plan for Northern Spotted Owl
- [ ] Cooperative Habitat Enhancement Agreement
- [ ] Bull Trout Overlay
- [ ] HCP Bull Trout Population
- [ ] Bald Eagle nest or roost within 690 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 Tapped Water
- [ ] Volume greater than 5 mbf per acre
- [ ] Large Landowner Road Maintenance and Abandonment Plan

**ASSOCIATED SCANNED DOCUMENTS**
- [ ] Conversion Option Harvest Plan
- [ ] FHP 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 **BLC**  
October, 2016 Version
Forest Practices Application/Notification
Western Washington

PLEASE USE THE INSTRUCTIONS TO COMPLETE THIS APPLICATION. TYPE OR PRINT IN INK.

1. Landowner, Timber Owner and Operator

<table>
<thead>
<tr>
<th>Legal Name of LANDOWNER</th>
<th>Legal Name of TIMBER OWNER (if different than Landowner)</th>
<th>Legal Name of OPERATOR (if different than Landowner)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Department of Natural Resources</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mailing Address:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>919 N. Township St.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>City, State, Zip</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sedro-Woolley, WA 98284</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Phone (360) 856-3500</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Email:</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

2. Contact Person

<table>
<thead>
<tr>
<th>Contact Person:</th>
<th>Phone (360) 856-3500</th>
<th>Email:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Laurie Bergvall</td>
<td><a href="mailto:Laurie.Bergvall@dnr.wa.gov">Laurie.Bergvall@dnr.wa.gov</a></td>
<td></td>
</tr>
</tbody>
</table>

3. Landownership information: See instructions

a. ☒No ☐Yes Are you a small forest landowner per RCW 76.09.450?
   If yes, continue to b.

b. ☐No ☒Yes Is your entire proposed harvest area on a single contiguous ownership consisting of one or more parcel?

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

For tax reporting information or to receive a tax number, call the Department of Revenue at 1-800-548-8829.

5. 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 on file at the Region office. See Attached HCP

Hidden Gems #96336; Found Gems #96938

RECEIVED NW REGION
MAR 02 2018
6. 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>1, 3</td>
<td>28</td>
<td>7</td>
<td>E</td>
<td>----</td>
<td>Snohomish</td>
</tr>
<tr>
<td>32</td>
<td>29</td>
<td>8</td>
<td>E</td>
<td>----</td>
<td>Snohomish</td>
</tr>
<tr>
<td>5, 6, 7, 18</td>
<td>28</td>
<td>8</td>
<td>E</td>
<td>----</td>
<td>Snohomish</td>
</tr>
</tbody>
</table>

*Does not include legal description for pre-haul maintenance; it is not a Forest Practices regulated activity.*

7. When are you planning to begin work on the proposed activity? □ 6+ months

8. Is the taxpayer eligible for the EARR Tax Credit?
□ No  ☑ Yes

9. 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 See FPA Narrative

10. Do you have a DNR approved Road Maintenance and Abandonment Plan (RMAP)?
   a. □ No  ☑ Yes List the RMAP number: R2800010L
      If no, continue to b.
   b. □ No  □ Yes Is a Checklist RMAP required (see instructions)?

11. Are there potentially unstable slopes or landforms in the area of your forest practices activity?
    ☑ No  □ Yes – attach Slope Stability Informational Form. If applicable, attach geotechnical report, the SEPA Environmental Checklist, HCP, or Watershed Analysis prescriptions.

12. Are there potentially unstable slopes or landforms around the area of your forest practices activity?
    □ No  ☑ Yes – attach Slope Stability Informational Form. If applicable, attach geotechnical report, HCP, or Watershed Analysis prescriptions.

13. Is this forest practice application/notification (answer every question):
   a. ☑ No  □ Yes Within city limits or inside an urban growth area? If yes, see instructions for additional required documents.
   b. □ No  ☑ Yes For road work that is included in an approved Road Maintenance and Abandonment Plan (RMAP)?
   c. ☑ 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.
   d. ☑ No  □ Yes Within 500 feet of a public park? Park name: ____________________________
   e. ☑ 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.
   f. ☑ No  □ Yes Within 200' of the Ordinary High Water Mark (OHWM) or floodway or 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.
   g. ☑ 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.
h. ☒ No ☐ Yes  An Alternate Plan? If yes, include a copy.

l. ☐ No ☒ Yes  Within 50 miles of saltwater and do 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.

***** If not working in or over typed waters, skip to Question 18 *****

You are required to verify Type Np and Ns water types within 200 feet of your proposed forest practices activities prior to submitting a Forest Practices Application / Notification. Use the Additional Information section, additional pages, 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.

Prior to answering Questions 14-17 in this section please refer to the Forest Practices Application Instructions and Forest Practices Board Manual Section 5.

14. 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)?

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

16. If installing, replacing, removing, or maintaining structures in or over any typed water, complete the table below. Type S and F waters require detailed plan information. Provide plan details in Question 31 or attach plan to the FPA/N. Provide crossing locations and identifiers on your Activity Map. A detailed plan with profiles may also be required for more complex hydraulic projects in Type N Waters per WAC 222-24-042(2).

<table>
<thead>
<tr>
<th>Crossing Identifier (letter and/or number)</th>
<th>Water Type (S, F, No, Ns)</th>
<th>*Existing HPA Number (if applicable)</th>
<th>HPA Expiration Date (if applicable)</th>
<th>Planned Activity (install, replace, remove, temporary, structure maintenance)</th>
<th>Structure (culvert, bridge, ford, etc., punchdown, arch, other)</th>
<th>Proposed Size (dimensions of structure)</th>
<th>Culvert Design Method (Nonhydraulic, Hydraulic, Other)</th>
<th>Channel Bed Width (ft) (F and S only)</th>
<th>Channel Gradient (%) (F and S only)</th>
<th>RMPP Project (Y or N)</th>
<th>FFPP Project (Y or N)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
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</tbody>
</table>

See FPA Narrative

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

** Fords and equipment crossings on Type S and F Waters may result in an unauthorized incidental take of certain endangered or threatened fish species. For more information, see 'Background for the State's Incidental Take Permits for certain endangered and threatened fish species' following Question 24 of the FPA/N Instructions.
17. If conducting any of the following activities in or over typed water, complete the table below. Some activities will require identifiers on the Activity Map and/or more information in Question 31. 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></td>
<td></td>
<td>X</td>
<td>X</td>
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<tr>
<td>Suspending Cables</td>
<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Cable Yarding</td>
<td></td>
<td>X</td>
<td></td>
<td></td>
</tr>
<tr>
<td>LWD Placement/Removal</td>
<td>X</td>
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<td></td>
<td></td>
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<tr>
<td>Beaver Dam Removal</td>
<td></td>
<td>X</td>
<td></td>
<td></td>
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<tr>
<td>Felling and Bucking</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td></td>
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<tr>
<td>Other (describe in Question 31)</td>
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<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).

** Fordors and equipment crossings on Type S and F Waters may result in an unauthorized incidental take of certain endangered or threatened fish species. For more information, see 'Background for the State's Incidental Take Permits for certain endangered and threatened fish species' following Question 24 of the FPA/N Instructions.

18. If constructing or abandoning forest roads, complete the table below. Show the road locations and identifiers on the Activity Map. Include abandonment plans for 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>Total Construction</td>
<td>14,600</td>
<td>55</td>
</tr>
</tbody>
</table>

See FPA Narrative

19. 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>HB-30,14+55</td>
<td>1,500</td>
<td>TL-01, Hard Rock Pit</td>
<td>0.2</td>
<td></td>
</tr>
</tbody>
</table>

20. If operating in or within 200 feet of a wetland, complete the table below. Show the boundaries of each wetland, along with its identifier, and WMZ on the Activity Map. See instructions for information.

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

See Aquatics Addendum

**** If not harvesting or salvaging timber, skip to Question 28 ****
21. 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</th>
<th>Harvest Method</th>
<th>Acres to be Harvested</th>
<th>Volume to be Harvested (m³)</th>
<th>Volume to be Harvested (biomass tonnage)</th>
<th>Volume to be Harvested (%)</th>
<th>Steepest Slope in Harvest Unit (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>(Even-aged, Uneven-aged, Salvage, Right-of-Way)</td>
<td>(Rubber Tired Skidder, Tracked Skidder, Dozer, Shovel, Full Suspension Cable, Lead-end Suspension Cable, Helicopter, Animal, Chipper-forwarder, Slash Bander)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

See FPA Narrative

22. Reforestation. Check the appropriate box(es).

☒ Planting. Tree Species: Douglas-fir, western redcedar
☐ 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 it.
  ☐ Road right-of-way or rock pit development harvest only.

**** If you own MORE than 80 forested acres in Washington, skip to Question 27. ****

23. Are you using the exempt 20-acre parcel riparian management zone (RMZ) rule on type S, F, or Np waters?
☐ No If no, continue to Question 27.
☒ Yes If yes, continue to Question 24, See instructions for qualifications and information.

24. 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 forestland 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 owned less than 80 acres of forestland in Washington.
b. **ONE OR MORE** of the following apply to me and/or my land (check all that apply):

- [ ] I currently own more than 80 acres of forestland in Washington.
- [ ] Between June 5, 2006 and today's date I have owned more than 80 acres of forestland 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.

If any of the statements in (b) above apply AND you use the 20-acre exempt RMZ rule, you are **NOT** authorized under the State's Incidental Take Permits (see explanation in FPA instructions under Questions 24).

25. **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 how stream shade was determined to be met, using the '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>Maximum RMZ Width (feet)</th>
<th>Are you harvesting within the maximum RMZ? (Y or N)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
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</tbody>
</table>

26. **Are you harvesting within 29 feet of a Type Np water on a 20-acre exempt parcel?**

- [ ] No  Continue to Question 29.
- [ ] Yes  See instructions and describe leave tree strategy in Question 31. Then continue to Question 29.

27. **If harvesting within 200 feet of any of Type S or F water, complete the table below. Include 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 how stream shade was determined to be met, using the 'Stream Shade Assessment Worksheet' if necessary.

<table>
<thead>
<tr>
<th>Stream Segment Identifier (letter)</th>
<th>Water Type (S or F)</th>
<th>Site Class (I - V)</th>
<th>Stream Width (feet)</th>
<th>Is there a CMZ? (Y/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></td>
<td></td>
<td></td>
<td></td>
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<td></td>
</tr>
</tbody>
</table>

See Aquatics Addendum
28. 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>See Aquatics Addendum</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>

29. How are the following marked on the ground? *(Flagging, paint, road, fence, etc.)*

- **Harvest Boundaries:** White "Timber Sale Boundary" tags, adjacent young stands, LL-ML, LL-55, HB-ML roads
- **Clumped Wildlife Reserve Trees/Green Recruitment Trees:** Blue paint and yellow "Leave Tree Area" tags
- **Right-of-way limits/road centerlines:** Centerlines marked with stakes and orange flagging
- **Stream Crossing Work:** To be flagged by operator, then approved by State lands Contract Administrator with consultation of FP Forester.
- **Riparian Management Zone Boundaries and Leave/Take Trees:** White "Timber Sale Boundary" Tags
- **Channel Migration Zone:** N/A
- **Wetland Management Zone Boundaries and Leave/Take Trees:** White "Timber Sale Boundary" Tags

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

- Yes ☐  No ☑

If yes, include your SEPA Determination and/or SEPA checklist.

31. **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.

See attached FPA Narrative.
32. 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 LANDOWNER</th>
<th>Signature of TIMBER OWNER*</th>
<th>Signature of OPERATOR</th>
</tr>
</thead>
<tbody>
<tr>
<td>[Signature]</td>
<td>(If different than landowner)</td>
<td>(If different than landowner)</td>
</tr>
<tr>
<td>Print Name: R. CORY McDONALD</td>
<td>Print Name:</td>
<td>Print Name:</td>
</tr>
<tr>
<td>Date: 3/2/18</td>
<td>Date:</td>
<td>Date:</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.
FPA Narrative

This proposed activity is being conducted on lands covered by the Department’s multi-species HCP. These planned activities are consistent with our approved HCP dated September 1997 and associated Incidental Take Permits. See the attached HCP checklist for habitats and species both covered by our HCP agreement and specifically addressed with this proposal. Additionally, attached are DNR proprietary HCP/FPA substitute Addendums for Aquatic Resources, Northern Spotted Owl and Marbled Murrelets. This proposal also complies with the letter of agreement dated February 23, 2007 between DNR state lands and the US Fish and Wildlife Service.

Question #9
A DNR archaeologist conducted a field review on January 23, 2018 of the proposed project and did not identify any features listed in or eligible for listing in national, state, or local preservation registers.

If any cultural resources are discovered during forest activity operations, a DNR archaeologist will be notified and will follow the department’s “Cultural Resources Inadvertent Discovery Guidance” procedure.

The Tulalip Tribes, Stillaguamish Tribe of Indians, and Snoqualmie Indian Tribe were contacted on January 9, 2018. No response has been received from the Snoqualmie Indian Tribe or the Tulalip Tribes. The Stillaguamish Tribe of Indians responded on January 9, 2018 saying “Thank you for the opportunity to review this project. We have no comments at this time.”

Question #16:

<table>
<thead>
<tr>
<th>Crossing Identifier (letter and/or number)</th>
<th>Water Type (S. F. N. D. Ns.)</th>
<th>“Existing HPA Number” (if applicable)</th>
<th>HPA Expiration Date (if applicable)</th>
<th>Planned Activity (install, replace, temporary, maintenance)</th>
<th>Structure (culvert, bridge, ford, punchdrum, arch, other)</th>
<th>Proposed Size (dimensions of structure)</th>
<th>Culvert Design Method (No-slope, Stream-sim, Other)</th>
<th>Channel Bed Width (ft)</th>
<th>Stream Gradient (%)</th>
<th>RMAP Project (Y or N)</th>
<th>FFFPP Project (Y or N)</th>
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<tbody>
<tr>
<td>LL-22 4+82</td>
<td>4</td>
<td>N/A</td>
<td>N/A</td>
<td>temporary</td>
<td>Culvert</td>
<td>30x36</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>LL-29 5+43</td>
<td>5</td>
<td>N/A</td>
<td>N/A</td>
<td>temporary</td>
<td>Culvert</td>
<td>24x32</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>LL-29 7+98</td>
<td>3</td>
<td>N/A</td>
<td>N/A</td>
<td>temporary</td>
<td>Culvert</td>
<td>71&quot; span x 47&quot; rise x 30' long</td>
<td>Stream-sim</td>
<td>3.2</td>
<td>3.5</td>
<td>N</td>
<td>N</td>
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<tr>
<td>LL-29 15+84</td>
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<td>N/A</td>
<td>N/A</td>
<td>temporary</td>
<td>Culvert</td>
<td>24x32</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
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</table>
Question #17:

Further information relating to question 17:

Equipment for ground-based operations will cross type 5 streams at designated crossings. Type 5 stream crossings by ground-based equipment shall be as close to perpendicular as possible and may require log cribbing, culvert installation, or other approved methods to be in place to protect channels and banks. Timber will be fallen and yarded away from all streams when possible. Yarding will not occur over any type 3 or 4 stream. If yarding occurs over type 5 streams, lead end of logs will be suspended over streams.

Question #18:

Any roads to be built then abandoned (also know as temporary road) that are listed in the table for Question #18, are “optional construction roads”. Of the length listed in the table, zero feet up to the entire length listed may be built. For further information please see the road plan associated with the timber sale, on file at the Northwest Region Office.

<table>
<thead>
<tr>
<th>Road Identifier (Name, Number)</th>
<th>Road Construction</th>
<th>Abandonment Plan</th>
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<tbody>
<tr>
<td></td>
<td>Length (feet)</td>
<td>Steepest Side-slope (%)</td>
</tr>
<tr>
<td>LL-22*</td>
<td>3737</td>
<td>35</td>
</tr>
<tr>
<td>LL-29</td>
<td>1779</td>
<td>25</td>
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<tr>
<td>LL-34</td>
<td>1054</td>
<td>50</td>
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<tr>
<td>LL-56*</td>
<td>690</td>
<td>25</td>
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<td>HB-ML*</td>
<td>940</td>
<td>20</td>
</tr>
<tr>
<td>HB-13</td>
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<td>45</td>
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<td>HB-17</td>
<td>280</td>
<td>35</td>
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<tr>
<td>HB-21*</td>
<td>732</td>
<td>20</td>
</tr>
<tr>
<td>HB-30*</td>
<td>3084</td>
<td>55</td>
</tr>
<tr>
<td>HB-3004*</td>
<td>628</td>
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<td>1335</td>
<td>20</td>
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<td>LL-ML</td>
<td></td>
<td></td>
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</table>

*Entire/portion of roadwork is on an abandoned/orphaned grade
Q.18 Road Abandonment

Per the FPA Instructions:

A written plan that shows how the road will be left to:

* Control erosion
* Maintain water movement within wetlands and other natural drainages, and
* Prevent four-wheeled highway vehicles from entering the point of closure.

The following will be accomplished as applicable to meet the on-site conditions during the course of road abandonment work:

* Remove all ditch relief culverts. The resulting slopes will be 1:1 or flatter. Place and compact the removed fill material in a location that will not erode into any typed waters or wetlands.
* Remove all culverts in natural drainages. The resulting slopes will be 1 ½ :1 or flatter. Strive to match the existing native stream bank gradient. The natural streambed width will be re-established. Place and compact the removed fill material in a location that will not erode into any typed waters or wetlands.
* Transport all removed culverts off site.
* Construct non-drivable waterbars at natural drainage points and at a spacing that will produce a vertical drop of no more than 20 feet between waterbars and with a maximum horizontal spacing of 400 feet.
* Skew waterbars at least 30 degrees from perpendicular to the road centerline on roads in excess of 3 percent grade.
* Key waterbars into the cut-slope to intercept the ditch. Waterbars will be outsloped to provide positive drainage. Outlets will be on stable locations.
* Inslope or outslope the road as appropriate.
* Remove bridges and other structures as applicable.
* Pull back unstable fill that has potential of failing and entering any typed waters or wetlands. Place and compact removed material in a stable location.
* Remove berms except as designed.
* Block the road by constructing an aggressive barrier of dense interlocked large woody debris (logs, stumps, root wads, etc.) so that four wheel highway vehicles cannot pass the point of abandonment. Typical barrier dimensions are 10 feet high by 20 feet deep, spanning the entire road prism from top of cutslope to toe of fillslope. Long term effectiveness is the primary objective. If necessary construct a vehicular turn-around near the point of abandonment.
* Apply grass seed to all exposed soils resulting from the abandonment work.
* May provide a protective cover for seed if revegetation occurs between July 1 and March 31. The protective cover may consist of dispersed straw, jute matting, or clear plastic sheets.

Question #19:

Additional pit(s) may be developed/utilized along haul route or constructed roads. These will be less than 0.5 acre, and located outside RMZ’s, WMZ’s, or other sensitive areas.
Question #21:
Ground-based equipment operations will be limited to sustained slopes 35% or less. Self-leveling equipment may be utilized on sustained slopes 50% or less. A tethered harvester and/or shovel may be utilized to fell and pre-bunch, then yard by cable, on slopes up to 90% with prior approval from the Contract Administrator.

<table>
<thead>
<tr>
<th>Unit Number</th>
<th>Harvest Type</th>
<th>Biomass Harvest (Y/N)</th>
<th>Harvest Method</th>
<th>Acres to be Harvested</th>
<th>Volume to be Harvested (m³)</th>
<th>Volume to be Harvested (biomass tonnage)</th>
<th>Volume to be Harvested (%)</th>
<th>Steepest Slope in Harvest Unit (%A)</th>
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<tbody>
<tr>
<td>1</td>
<td>Even-aged</td>
<td>N</td>
<td>Ground/Cable</td>
<td>12.4</td>
<td>732</td>
<td>--</td>
<td>95</td>
<td>70</td>
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<tr>
<td>2</td>
<td>Even-aged/</td>
<td>N</td>
<td>Ground/Cable</td>
<td>10.9</td>
<td>652</td>
<td>--</td>
<td>95</td>
<td>60</td>
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<tr>
<td></td>
<td>Row¹</td>
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<td></td>
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</tr>
<tr>
<td>3</td>
<td>Even-aged/</td>
<td>N</td>
<td>Ground/Cable</td>
<td>14.1</td>
<td>958</td>
<td>--</td>
<td>95</td>
<td>63</td>
</tr>
<tr>
<td></td>
<td>Row²</td>
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<tr>
<td>4</td>
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<td>Ground/Cable</td>
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<td>788</td>
<td>--</td>
<td>95</td>
<td>35</td>
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<tr>
<td></td>
<td>Row³</td>
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<td></td>
<td></td>
<td></td>
<td></td>
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<td></td>
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<td>40.9</td>
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<td>--</td>
<td>95</td>
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<tr>
<td>6</td>
<td>Even-aged¹,²</td>
<td>N</td>
<td>Ground/Cable</td>
<td>8.6</td>
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<td>--</td>
<td>95</td>
<td>78</td>
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<td>7</td>
<td>Even-aged</td>
<td>N</td>
<td>Ground/Cable</td>
<td>19.0</td>
<td>1130</td>
<td>--</td>
<td>95</td>
<td>30</td>
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<td>118.6</td>
<td>7200</td>
<td>--</td>
<td>--</td>
<td>78</td>
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</table>

¹ Includes 0.1 acres ROW, 2 Includes 0.6 acres ROW, 3 Includes 0.4 acres ROW, 4 Includes 0.5 acres ROW, 5 Unit 6B is a 0.8 acre leave tree clump to meet HCP requirements for the combined acres of units 6A and 6B.

Note: Units 1, 2, 3, 4, 5, 6 and 7 will most likely be harvested by ground-based harvest method.

Question #31:
Activity Map – Leave Tree locations depicted are approximate. Leave trees may be exchanged or traded to locations other than mapped on the Activity Maps to facilitate operational feasibility. Non-tradeable leave trees are marked with two blue bands around the bole.

An ID team meeting was conducted by the pre-sales forester and the forest engineer on December 4, 2017. Representatives from WDFW, Forest Practices, and the Tulalip tribes were on site to review a road crossing with a culvert over a type-3 stream to access unit 3 and a type-3 to a type-4 stream downgrade in unit 1. The consensus was that the road design is acceptable as is without modification (ICN: 135548). The group also agreed that the bedrock may be considered a type 3/4 break for the stream in unit 1 if a protocol survey above the bedrock section determined no fish presence beyond that point. On December 7, 2017 a state lands wildlife biologist and the pre-sales forester performed a protocol survey on the stream above the fish barrier and found no fish. See attached shocking report dated January 9, 2018.
**Forest Practices**  
**Informal Conference Note**

<table>
<thead>
<tr>
<th>ICN No.</th>
<th>Legal Subdivision</th>
<th>Section</th>
<th>TWP</th>
<th>RGE E/W</th>
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<th>Class</th>
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<td>135553</td>
<td>all</td>
<td>5, 6</td>
<td>28</td>
<td>8E</td>
<td></td>
<td>Operator</td>
</tr>
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</table>

**Landowner**  
Department of Natural Resources – Bryant Daugherty

**Timber Owner**  
Same as landowner

**Mailing Address**  
919 N. Township St.

**Operator**  
Mailing Address

**City, State /Province), Zip /Postal Code**  
SZedro-Woolley WA 98284

**Meeting Location**  
N/A - on site by self

<table>
<thead>
<tr>
<th>Telephone Conference</th>
<th>Date</th>
<th>Time</th>
<th>Region</th>
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<tr>
<td></td>
<td>1/12/18</td>
<td>1300</td>
<td>NW</td>
</tr>
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</table>

---

**Subjects Discussed:**
Landowner representatives requested a pre-application review of the proposed 7 unit “Hidden Gem” timber sale. A site visit was held on December 4, 2017 (ICN 135548) to review a proposed type 3 stream crossing for unit 3 and stream typing and type break question for unit 1.

All units except unit 5 are planned for ground based logging. Unit 5 will be a combination of ground based and cable. RMZs and WMZs were spot checked during the site visit.

There were LSI polygons identified by the state lands geologist near units 1, 5, and 6. Bedrock hollows were present and bounded out in unit 6. No landslides were observed during the site visit.

---

**Decisions Made:**
There were no specific resource concerns observed within the proposed harvest units during the site visits. Areas with slopes over 70% were bounded out of the planned units. Stream crossing and typing / type break concerns were addressed during the December 4 site review. Stream in unit 1 was downgraded from type 3 to type 4 following a protocol survey.

Forest Practice Geologist or TFW reviewer may request an onsite review of the proposed FPA once it is submitted.

---

**PRINT Participants’ Names**
Bryant Daugherty

** ‘SIGNATURES of Participants**

<table>
<thead>
<tr>
<th>Representing</th>
</tr>
</thead>
<tbody>
<tr>
<td>landowner</td>
</tr>
</tbody>
</table>

**Copies Mailed**

---

**Position No.**  
2925

**Signature & Title of DNR Representative**  
Steven Huang,  
Forest Practice Forester

**Date**  
1/16/2018

**Work Phone**  
(360) 770-9806

---

* (Participant signature means Note is correct for subjects discussed and decisions made at the meeting.)

Did not attend — mail copies to: WFPARM, FPDM, FPCOORD, SKY30

- Timber Owner  
- Landowner  
- Others: SNOCO, ECF, DFW, DOR, TULALIP

---

E-MAILED 1/16/18  
Rev. 11/04  
Page 1 of 1
**Forest Practices**

**Informal Conference Note**

<table>
<thead>
<tr>
<th>ICN No.</th>
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<th>Section</th>
<th>TWP</th>
<th>RGE E/W</th>
<th>Application / Notification #</th>
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<td>1</td>
<td>28N</td>
<td>7E</td>
<td>Operator same as landowner</td>
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</tr>
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**Landowner**

- WADNR NW Region - Bryant Daugherty
- Mailing Address: 919 N Township Street, Sedro-Woolley, WA 98284

**Mailing Address**

- Mailing Address: same as landowner

**City, State (Province), Zip / Postal Code**

- City, State (Province), Zip / Postal Code: same as landowner

**Meeting Location**

- On site

**Telephone Conference**

- Date: 12/4/2017
- Time: 0000
- Region: NW

**Subjects Discussed:**

- Landowner representative requested a pre-application review of the planned type F crossing for the proposed "Hidden Gem" timber sale. A temporary type F crossing is planned for this proposal (see attached).

- An IDT meeting was held on 12/4/2017 to review and discuss the proposal.

- The group looked at the type 3 stream and the proposed culvert plans for both install and abandonment. A concurrence will not be required from DFW for the type F crossing structures as the streams are confined. A FPHP will be required for the proposals.

- We (less Amy H.) also walked the stream adjacent to unit 1 to determine if there was a type break, and to discuss if a protocol survey would be needed above the type break to determine stream type. From the confluence of the uppermost type F stream for a distance of approximately 150' up the tributary of the stream to be typed, the stream is generally less than 10% gradient and over 2' BFW. A series of smaller step pools is present over the next 40' of the stream with over 30% gradient. Beyond the small step step pools, the stream flows over flat bedrock with over 35% gradient for approximately 30'. The stream maintains over a 20% gradient for approximately another 40', than the gradient decreases to less than 10%. The stream again meets the type 3 physicals at that point.

**Decisions Made:**

- The group had no issues with the design as presented. The consensus was that the design is acceptable as-is without modification.

- Jamie indicated that the start date for in-stream work may be changed to July 1. Also, the FPHP and FPA should specify how long the temporary culvert is expected to be installed and when it will be removed.

- The group agreed that the bedrock may be considered as a type 3/4 break for the stream in unit 1 if a protocol survey above the bed rock section determined no fish presence beyond that point.

**PRINT Participants' Names**

- Bryant Daugherty
- John Moon
- Amy Halgren
- Derek Marks
- Nell Shea
- Jamie Balle

**Representing**

- landowner

**Copies Mailed**

- [ ]

**Signature & Title of OR Representative**

- Steven Huang

- Date: 12/4/2017

**Work Phone**

- (360)856-5500

* (Participant signature means Note is correct for subjects discussed and decisions made at the meeting.)

- [ ] Timber Owner
- [ ] Landowner
- [ ] Others: Snoqualmie, DFW, DNR, Tulalip
LL-29 Road
FISH PASSAGE CULVERT 7+48

PLAN VIEW

1. AREA CDW + 3.2
2. ALL EXCAVATION WORK MAY COMMENCE NO SOONER THAN JULY 15 AND SHALL BE COMPLETED PRIOR TO SEPTEMBER 30 UNLESS AUTHORIZED BY THE CONTRACT ADMINISTRATOR AND PERMITTING AUTHORITIES.
3. FISH SHALL BE PRESENTED FROM ENTERING THE WORK ZONE AND ARE PATIENTLY ON THE AREA DESIGNATED TO FILL FLOWING WATERS PRIOR TO ENTERING.
4. THE WORK ZONE SHALL BE PROTECTED DURING CONSTRUCTION, CONSISTING OF EITHER:
   • COPPER CIVIL AND FUMITORS (CATCHMEST TO PREVENT HYDRA OF FISH.
   • CULVERT OR FUMITORS BYPASS
5. ONCE THE STREAM HAS BEEN DIVERTED, STREAM FLOW SHALL NOT BE ALLOWED THROUGH THE WORK ZONE UNLESS ALL WORK BELOW THE ORDINARY HIGH WATER LEVEL HAS BEEN COMPLETED.
6. ANY WATER THAT ENTERS THE WORK ZONE SHALL BE PUMPED TO A DRAIN SPILLAGE LOCATION WHERE TURBID WATER WASH NOT FLOW INTO TYPED STREAMS.

12/01/2017 9:37:04 AM, DRAFT
LL-29 Road
Fish Passage Culvert

Stream Profile View

Construction Notes:

1. This culvert is designed as a temporary installation. Avoid inlet at stream elevation more than 1 foot below streambed. Sumps shall not exceed 0.5 ft.
2. Road bed with a 3" crown at centerline. Finished road surface elevation at centerline = 120.65'
3. Culvert material shall consist of riprap sand and gravel, placed to a depth of 18 inches with a 6 inch rip at the center. Estimated quantity = 1000

Typical Section
0.8 Scale

Long Profile: 10x Vertical
0.75 Scale

12/01/2017 9:37:05 AM, DRAFT
Watershed Analysis Worksheet
(Use a separate worksheet for each Watershed Analysis Unit)

Watershed Administrative Unit Name: Woods Creek

Check all of the following that apply:
☒ I have reviewed the Watershed Analysis Prescription documents. 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.
☐ 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 – applicable to landowners using the 20 acre exempt 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 if you are implementing the prescriptions or not.
Attach required reports and additional information as necessary.

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

DNR USE ONLY
Reviewed by: SR
Date: 1/2/2018
Appendix D. Slope Stability Informational Form

Complete and attach this form to your FPA if you answered ‘Yes’ to FPA Question 11 or 12. 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. What screening tools were used? ☑ Aerial Photo, ☑ LiDAR, ☑ Landslide Inventory, ☑ Landslide Hazard Zone Polygon, ☑ GIS/Other (describe):
   1:24,000- and 1:100,00-scale geologic mapping.

2. Were there any features identified using the screening tools in #1 that did not exist in the field? If yes, describe:
   See the attached slope stability form narrative.

3. a. What potentially unstable slopes or landforms were identified in the area of your forest practices activity? Check all that apply:
   ☐ Inner Gorge ☐ Groundwater recharge areas or 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.

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

4. a. What potentially unstable slopes or landforms were identified around the area of your forest practices activity? 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:
   Shallow debris slides

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

For use with FPA/N dated 6/1/2016 or later
5. If any features identified in #3.a. and/or #4.a. were bounded out, describe the manner in which the boundary was determined:
See the attached slope stability form narrative.

6. Were areas of public use (which may include, but are not limited to: public roads, utilities, designated recreation areas, occupied structures, etc.) identified in or around the area of your proposed forest practices activity? Show these locations on the map in #8.
Geological features (LSI 28806, 28808, 28902, & 28903) located around units 6B are above the HR-09 (Diversion Dam) road and the Sultan River.

7. Date of field review: 7/18/2017

Person(s) that conducted field review: Jennifer Parker, LEG State Lands Geologist

Bryant Daugherty Forester

8. Show all field reviewed areas for potentially unstable slopes or landforms on a map (may use a forest practices activity map, harvest map or GIS map – See example below). Show locations where areas of public use exist. **This map is intended to be developed by the field practitioner.**
Slope Stability Information Form
Forest Practices Application/Notification
Hidden Gems Timber Sale

Narrative:

2. *Were any of the features identified using the screening tools in #1 that did not exist in the field? If yes, describe:*

Yes. The geologist identified landslide inventory polygons (LSI) around Units 1, 5, and 6. The LSI database identifies the 1978 and 1983 air photos that were used to outline the polygons. These photos are included for reference. Refer to the attached Forest Practices landslide inventory review table (Table 1) for detailed information about these LSI polygons. Brief information follows:

LSI polygon numbers 28896, 28898, 28902, and 28903: The State Lands geologist did not observe evidence of landsliding in the field, on LiDAR, or on historic air photos for these polygon locations.

The State Lands geologist interprets the landform outlined by 28907 to be the result of shallow erosion and deposition, not earthflow processes as described in the LSI database.

5. *If any features identified in #3.a. and/or #4.a. were bounded out, describe the manner in which the boundary was determined:*

The primary mitigation measure for the identified hazards and risks is avoidance. Features that were recognized in the geologic evaluation as potentially unstable with the potential to deliver to a public resource were excluded from the proposed harvest.

A portion of Unit 5A around LSI polygon 28907 is excluded by a wetland buffer. A steep slope around the wetland has exposed, eroding soil. The eroding soil is within the wetland buffer.

A portion of the southern Unit 5B boundary is around a wet, slightly convergent area with abundant hardwoods. The geologist did not observe evidence of landsliding, but the ground appeared saturated and potentially sensitive to rutting and ground disturbance. The area is excluded from the sale above the break in slope.

Portions of Units 6A and 6B are in areas identified in the Landslide Hazard Zonation as very high instability potential. The geologist identified shallow debris slides and bedrock hollows on 70% and steeper slopes around Units 6A and 6B. Areas identified by the geologist as potentially unstable around Units 6A and 6B were excluded from the sale by limiting harvest to slopes that are less than 70%.

A shallow debris slide identified as LSI polygon #28951 is around Unit 1. The polygon is within the RMZ buffer. No harvest is planned within the RMZ buffer.
<table>
<thead>
<tr>
<th>Location</th>
<th>Yes</th>
<th>Related Reference</th>
<th>Unit</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>North Fork</td>
<td></td>
<td>NW-78 808.95-6.2</td>
<td>Unit 68</td>
<td>28903</td>
</tr>
<tr>
<td>Middle Fork</td>
<td></td>
<td>NW-C-83 18-67-0.01</td>
<td>Unit 68</td>
<td>28902</td>
</tr>
<tr>
<td>South Fork</td>
<td></td>
<td>NW-91 30 67-8.9-5</td>
<td>Unit 68</td>
<td>28898</td>
</tr>
<tr>
<td>East Fork</td>
<td></td>
<td>NW-C-83 18-67-0.06</td>
<td>Unit 68</td>
<td>28896</td>
</tr>
</tbody>
</table>

Table 1: Forest Practices Landslide Inventory (LFI) Review.
<table>
<thead>
<tr>
<th>Feature</th>
<th>Yes</th>
<th>No Available</th>
<th>Traffic Focus</th>
<th>Future Plan</th>
<th>Unit</th>
<th>LST</th>
</tr>
</thead>
<tbody>
<tr>
<td>Activity Index</td>
<td>(Stream site slope is regulated. The stream does not appear to be channelized.)</td>
<td>(End point is located on site 10.3 feet.)</td>
<td>(Stream flows in a normal stream pattern although the middle of the stream is exposed in the channel below near the end.)</td>
<td>(There are many existing roads in the area. The roads are not accessible via a vehicle.)</td>
<td>(There are many existing roads in the area. We interpret the road as a road.)</td>
<td>(Very small, existing. Roadway is associated with a road.)</td>
</tr>
<tr>
<td>Notes</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
**LL-29 Road Station 7+98**

**Fish Passage Culvert Installation**

**Plan View**

**Proposed 71' Span x 47' Rise x 30' Long Pipe Arch Culvert, 12 Gage, 28/4 Corrugations**

**BMK 2, NAIL**

**ELEV=100.04'**

**BMK 1, Wood Hub**

**ELEV=100.00'**

**BMK 3, Wood Hub**

**ELEV=99.79'**

**BMK 4, NAIL**

**ELEV=106.85'**

**Permit Notes:**
1. Avg CBW = 3.2'

**Construction Notes:**
1. In-stream work may commence no sooner than July 1 and shall be completed by September 30 of the same year unless authorized by the contract administrator and permitting authorities.
2. Fish shall be prevented from entering the work zone and any fish within that area relocated to free flowing waters prior to dewatering.
3. The work zone shall be dewatered during construction, consisting of either:
   - Copper dam and pump(s) equipped with screens to prevent injury of fish.
   - Culvert or flume bypass.
4. Once the stream has been diverted, stream flow shall not be allowed through the work zone until all work below the ordinary high water line has been completed.
5. Any water that enters the work zone shall be pumped to a stable upland location where turbid water will not flow into typed streams.

**Location:**

G7 9m7n, 121° 8'41"W
T26N R8E Sec 6

**Scale in Feet** 0 30

**Contract #**

96336

**Project**

Hidden Gems

**Sheet**

36 of 37
LL-29 ROAD STATION 7+98

FISH PASSAGE CULVERT INSTALLATION

STREAM PROFILE VIEW

CONSTRUCTION NOTES:

1. This culvert is designed as a temporary installation. Armor inlet at stream elevation with 5cy light loose riprap. Embankment slopes shall not exceed 1:1.

2. 14' road width with a 3" crown at centerline. Finished road surface elevation at centerline = 104.65'.

3. Streambed material shall consist of pitrun sand and gravel, placed to a depth of 16 inches with a 6 inch dip at the center. Estimated quantity = 10cy

TYPICAL SECTION
(1:8 Scale)

LONG PROFILE: 10X VERTICAL
(1:75 SCALE)

CONTRACT # 96356
PROJECT Hidden Gems
SHEET 37 OF 37
Forest Practices Application/Notification Addendum
DNR Proprietary HCP, WAC Replacement Summary for Aquatic Resources, 2008
Five West-side Planning Units, Excluding the OESF

Please refer to the DNR Proprietary HCP Substitution Agreement for Aquatic Resources, 2008. Please check all HCP prescriptions and/or activities, which are relevant to this proposal and describe the management prescriptions and final stand composition at the end of this checklist.

NOTE: When assessing hydrologic maturity for each sub-basin inside the rain-on-snow zone, DNR staff will use the most updated data layer delineating Watershed Administrative Units as designated by Forest Practices.

☐ Assessing Hydrologic Maturity in the Rain-On-Snow (ROS) Zone (Refer to item A in the Agreement Memo). If the activity lies within the ROS zone and subbasin will be managed for ROS, fill out the following table. If within ROS zone, but subbasin will not be managed for ROS, describe why in additional information section below.

<table>
<thead>
<tr>
<th>1. SUB-BASIN NAME</th>
<th>2. TOTAL ROS ACRES (DNR) WITHIN SUB-BASIN</th>
<th>3. HYDRO MATURE TARGET ACRES (2/3 of Column 2)</th>
<th>4. CURRENT DNR SUB-BASIN ACRES IN HYDRO MATURE FOREST IN ROS</th>
<th>5. ACRES OF HYDRO MATURE FOREST TO BE REMOVED</th>
<th>6. SURPLUS (+) OR DEFICIT (-) ACRES AFTER ACTIVITY</th>
</tr>
</thead>
</table>

☒ Wetlands Protection, road construction within wetlands or wetland buffers, requires mitigation. (Refer to item B in the Agreement Memo). If this activity will include road construction within a wetland or WMZ, describe the type of wetland, potential loss of wetland function and how and where the loss of function will be mitigated.

☐ Harvesting within Forested Wetlands. (Refer to items C & E in the Agreement Memo). Describe the remaining stand characteristics within the wetland and map any forested wetlands greater than 3 acres.

☒ Wetland Management Zones. (Refer to item D in the Agreement Memo). Describe the site index and WMZ width. If harvesting within the WMZ, describe the remaining stand characteristics within the WMZ.

☒ Riparian Management Zones for Type 1, 2 and 3 Waters (Refer to item F and Appendix 1 in the Agreement Memo). Describe the site index, RMZ width and if a wind buffer was applied. Describe if the RMZ begins from the outer edge of a CMZ or 100-year floodplain and how they were typed.

☒ Riparian Management Zones for Type 4 and 5 Waters (Refer to item G and Appendix 1 in the Agreement Memo). Describe any special protection for Type 5 waters.

☐ Harvesting or Salvaging within Type 1, 2, 3 and 4 Riparian Management Zones. (Refer to item F-J and Appendix 3 in the Agreement Memo). If harvesting, describe the general
HCP Riparian Forest Restoration Strategy management scenario under which the proposal's riparian stand will be managed. Describe stand treatment including removals, down wood and snag recruitment and type of activities. Describe post-harvest stand; how it meets the management parameters of the general management scenario, what species composition and diameter classes will remain, trees per acre, basal area, relative density. If salvaging, describe how you will be meeting the RDFC conditions, what you will retain and removals and other salvage/restoration conditions described within the Ecosystem Services Section approved site specific restoration plan (and/or attach plan).

Please provide any requested additional information below. If varying from standard HCP guidance, attach concurrence/variance approval from Land Management Division and/or Federal Services and discuss below (e.g. research).

Wetlands Protection, Road Construction within Wetland Buffers:
There is approximately 342 feet of road construction within the WMZ of WH. WH is a forested wetland with a site index buffer. There is approximately 0.5 acres of wetland buffer lost through road construction. There is no loss of wetland function, however approximately 0.5 acres have been added to the WMZ as mitigation.
There is approximately 422 feet of road construction within the WMZ of WB. WB is a non-forest wetland with a site index buffer. There is approximately 0.4 acres of wetland buffer lost through road construction. There is no loss of wetland function, however approximately 0.4 acres have been added to the WMZ as mitigation.

Wetland Management Zones:
Wetlands which cover an area greater than 1/4 acre, but less than 1 acre have 100-foot buffers.
Wetlands which cover an area greater than 1 acre received site index buffers.

Riparian Management Zones Type 1, 2 and 3 Waters:
All stream buffers were calculated using the 100-year site index buffer based on the major species on the specific site they are located. All stream buffers begin from the 100-year flood plain except when superseded by stream associated wetlands as was done for Streams AH, O, AD, and E. No wind buffers were applied to any of the stream buffers. Road construction will occur in the RMZ of Type 3 streams AD and E.

Riparian Management Zones Type 4 and 5 Waters:
All Type-4 waters have a 100-foot buffer measured from the outer edge of the 100-year flood plain except when superseded by a stream associated wetland. Opening up an abandoned grade from a previously harvested unit will cause road construction to occur in the RMZ of Type 4 stream AJ. No further harvest will occur on stream AJ.

All Type-5 waters will have a 30-foot equipment limitation zone. All trees are to be felled and yarded perpendicular to and away from streams where feasible.

See attached table.
<table>
<thead>
<tr>
<th>Stream Segment Identifier or Wetland Identifier</th>
<th>Water Type or Wetland &quot;forested or open water&quot;</th>
<th>Site Class FP Base Map / Other source</th>
<th>Stream Width (feet) or Wetland Size</th>
<th>Is there a CMZ? Yes or No</th>
<th>Thinning RMZ/WMZ Yes or No</th>
<th>Total Width of RMZ/WMZ FP width / Actual width (feet)</th>
<th>Wind Buffer? Yes, No (for T&gt;3 x 2, 1) or N/A</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>4</td>
<td>II</td>
<td>&gt;2 feet</td>
<td>No</td>
<td>No</td>
<td>50/100</td>
<td>N/A</td>
</tr>
<tr>
<td>B</td>
<td>3</td>
<td>II</td>
<td>&gt;2 feet</td>
<td>No</td>
<td>No</td>
<td>170/188</td>
<td>No</td>
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<tr>
<td>C</td>
<td>5</td>
<td>II</td>
<td>&lt;2 feet</td>
<td>No</td>
<td>No</td>
<td>0/30-foot equipment limitation zone.</td>
<td>N/A</td>
</tr>
<tr>
<td>D</td>
<td>5</td>
<td>II</td>
<td>&lt;2 feet</td>
<td>No</td>
<td>No</td>
<td>0/30-foot equipment limitation zone.</td>
<td>N/A</td>
</tr>
<tr>
<td>AC</td>
<td>3</td>
<td>II</td>
<td>&gt;2 feet</td>
<td>No</td>
<td>No</td>
<td>170/188</td>
<td>No</td>
</tr>
<tr>
<td>E</td>
<td>3</td>
<td>II</td>
<td>&gt;2 feet</td>
<td>No</td>
<td>No</td>
<td>170/188</td>
<td>No</td>
</tr>
<tr>
<td>AD</td>
<td>3</td>
<td>II</td>
<td>&gt;2 feet</td>
<td>No</td>
<td>No</td>
<td>170/188</td>
<td>No</td>
</tr>
<tr>
<td>G</td>
<td>5</td>
<td>II</td>
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<td>No</td>
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<td>N/A</td>
</tr>
<tr>
<td>H</td>
<td>5</td>
<td>II</td>
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<td>No</td>
<td>0/30-foot equipment limitation zone.</td>
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<tr>
<td>I</td>
<td>3</td>
<td>II</td>
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<td>No</td>
<td>No</td>
<td>170/188</td>
<td>No</td>
</tr>
<tr>
<td>J</td>
<td>4</td>
<td>II</td>
<td>&gt;2 feet</td>
<td>No</td>
<td>No</td>
<td>50/100</td>
<td>N/A</td>
</tr>
<tr>
<td>K</td>
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<td>N/A</td>
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<td>II</td>
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<td>II</td>
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<td>0/30-foot equipment limitation zone.</td>
<td>N/A</td>
</tr>
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<td>No</td>
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<td>N/A</td>
</tr>
<tr>
<td>O</td>
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<td>II</td>
<td>&gt;2 feet</td>
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<td>No</td>
<td>50/100</td>
<td>N/A</td>
</tr>
<tr>
<td>P</td>
<td>4</td>
<td>III</td>
<td>&gt;2 feet</td>
<td>No</td>
<td>No</td>
<td>50/100</td>
<td>N/A</td>
</tr>
<tr>
<td>Q</td>
<td>4</td>
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<td>No</td>
<td>No</td>
<td>50/100</td>
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</tr>
<tr>
<td>R</td>
<td>4</td>
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<td>No</td>
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<td>N/A</td>
</tr>
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<tr>
<td>T</td>
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<td>III</td>
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<td>No</td>
<td>50/100</td>
<td>N/A</td>
</tr>
<tr>
<td>AH</td>
<td>4</td>
<td>III</td>
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<td>No</td>
<td>No</td>
<td>50/100</td>
<td>N/A</td>
</tr>
<tr>
<td>V</td>
<td>4</td>
<td>III</td>
<td>&gt;2 feet</td>
<td>No</td>
<td>No</td>
<td>50/100</td>
<td>N/A</td>
</tr>
<tr>
<td></td>
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<td></td>
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<td>III</td>
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<tr>
<td>AI</td>
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<td>III</td>
<td>&lt;2 feet</td>
<td>No</td>
<td>No</td>
<td>0/30-foot equipment limitation zone.</td>
<td>N/A</td>
</tr>
<tr>
<td>Y</td>
<td>4</td>
<td>III</td>
<td>&gt;2 feet</td>
<td>No</td>
<td>No</td>
<td>50/100</td>
<td>N/A</td>
</tr>
<tr>
<td>Z</td>
<td>4</td>
<td>III</td>
<td>&gt;2 feet</td>
<td>No</td>
<td>No</td>
<td>50/100</td>
<td>N/A</td>
</tr>
<tr>
<td>AA</td>
<td>3</td>
<td>III</td>
<td>&gt;2 feet</td>
<td>No</td>
<td>No</td>
<td>140/153</td>
<td>No</td>
</tr>
<tr>
<td>AB</td>
<td>5</td>
<td>III</td>
<td>&gt;2 feet</td>
<td>No</td>
<td>No</td>
<td>0/30-foot equipment limitation zone.</td>
<td>N/A</td>
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<tr>
<td>AJ</td>
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<td>II</td>
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<td>No</td>
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</tr>
<tr>
<td>AK</td>
<td>3</td>
<td>II</td>
<td>&gt;2 feet</td>
<td>No</td>
<td>No</td>
<td>170/188</td>
<td>N/A</td>
</tr>
<tr>
<td>WA</td>
<td>Forsted Wetland</td>
<td>II</td>
<td>&gt;¼ acre but &lt; 1 acre</td>
<td>No</td>
<td>No</td>
<td>0/100</td>
<td>N/A</td>
</tr>
<tr>
<td>WB</td>
<td>Open Wetland</td>
<td>II</td>
<td>&gt; 1 acre</td>
<td>No</td>
<td>No</td>
<td>50/188</td>
<td>N/A</td>
</tr>
<tr>
<td>WC</td>
<td>Forsted Wetland</td>
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<td>No</td>
<td>No</td>
<td>0/100</td>
<td>N/A</td>
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<td>No</td>
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<tr>
<td>WE</td>
<td>Open Wetland</td>
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<td>&gt; 1 acre</td>
<td>No</td>
<td>No</td>
<td>50/153</td>
<td>N/A</td>
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<td>&gt;¼ acre but &lt; 1 acre</td>
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<td>No</td>
<td>0/100</td>
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<tr>
<td>WI</td>
<td>Open Wetland</td>
<td>III</td>
<td>&gt; 1 acre</td>
<td>No</td>
<td>No</td>
<td>50/153</td>
<td>N/A</td>
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<tr>
<td>WJ</td>
<td>Open Wetland</td>
<td>III</td>
<td>&gt; 1 acre</td>
<td>No</td>
<td>No</td>
<td>50/153</td>
<td>N/A</td>
</tr>
</tbody>
</table>
DNR Trust Forestland HCP Water Typing Key
ADDENDUM TO INSTRUCTIONS FOR COMPLETING THE FOREST PRACTICE APPLICATION

STREAM(S) AC, AA, AK ID DATE: 06/30/2017

Within your road construction and harvest area, you need to physically review these streams on the ground to determine if they meet the criteria of Type 3 water. Refer to DNR Trust Forestland HCP Water Typing System to determine Type 1 and 2 waters.

1. Were any fish observed in the stream segment, or are fish known to use this stream segment?
   ______ Yes. Type 3 stream.
   ___X__ No. Go to question # 2.

2. Has the stream been surveyed?
   ______ Yes. Attach the survey data to the Application/Notification.
   ______ Fish found. Type 3 stream.
   ______ No fish. Is the average width of the stream segment two feet (2') or wider between the ordinary high water marks?
   ______ Yes. Type 4 stream.
   ______ No. Type 5 stream.
   ___X__ No. Go to question # 3.

3. Is the average width of the stream segment two feet (2') or wider between the ordinary high water marks?
   ___X__ Yes. Go to question # 4.
   ______ No. Type 5 Stream.

4. Is the gradient of the stream segment 16% or less?
   (Example: 16' fall in elevation over 100 feet of stream = 16/100 = .16 or 16%).
   ___X__ Yes. Type 3 stream.
   ______ No. Go to question # 5.

5. Is the average gradient of the stream segment greater than 16% and less than or equal to 20%?
   ______ Yes. Go to question # 6.
   ______ No. Type 4 stream.

6. Is the contributing basin (watershed) size to the stream segment greater than 50 acres?
   ______ Yes. Type 3 stream.
   ______ No. Type 4 stream.

Definitions:

Stream Width: To determine the Ordinary High Water Mark (OHWM) of the stream(s), observe the break between the water influence zone and upland vegetation on the stream bank; this is usually the spring high water mark. Then measure stream width between the OHWMs on either side of the stream at 50 feet intervals along the stream bank for a minimum distance of 500 feet. This determines the average width of the stream. For further information see page M-11 of the board manual.

Stream Gradient: The gradient of a stream is defined as the inclination or rate of fall of a stream bed, expressed as a percentage. The average gradient of a stream is determined by calculating the inclination of individual sub-reaches over a minimum distance of 500 feet along a stream or to a point where distinct gradient changes occur. For further information see page M-14 of the board manual (only use the method for field measurements; do not use the mapping method).

Note: Streams with widths of twenty feet (20') or greater or lakes, ponds, or impoundments having a surface area of 1 acre or greater at seasonal low water, may be type 2 waters.
DNR Trust Forestland HCP Water Typing Key
ADDITIONAL INSTRUCTIONS FOR COMPLETING THE FOREST PRACTICE APPLICATION

STREAM(S) B, E, AD, I

ID DATE: 06/30/2017

Within your road construction and harvest area, you need to physically review these streams on the ground to determine if they meet the criteria of Type 3 water. Refer to DNR Trust Forestland HCP Water Typing System to determine Type 1 and 2 waters.

1. Were any fish observed in the stream segment, or are fish known to use this stream segment?
   __X__ Yes. Type 3 stream.
   ______ No. Go to question # 2.

2. Has the stream been surveyed?
   _____ Yes. Attach the survey data to the Application/Notification.
   ______ No fish. Is the average width of the stream segment two feet (2') or wider between the ordinary high water marks?
   __________ Yes. Type 4 stream.
   _______ No. Type 5 stream.
   ______ No. Go to question # 3.

3. Is the average width of the stream segment two feet (2') or wider between the ordinary high water marks?
   _____ Yes. Go to question # 4.
   ____ No. Type 5 Stream.

4. Is the gradient of the stream segment 16% or less?
   (Example: 16' fall in elevation over 100 feet of stream = 16/100 = .16 or 16%).
   _____ Yes. Type 3 stream.
   ____ No. Go to question # 5.

5. Is the average gradient of the stream segment greater than 16% and less than or equal to 20%?
   _____ Yes. Go to question # 6.
   ____ No.. Type 4 stream.

6. Is the contributing basin (watershed) size to the stream segment greater than 50 acres?
   _____ Yes. Type 3 stream.
   ____ No. . Type 4 stream.

Definitions:

Stream Width: To determine the Ordinary High Water Mark (OHWM) of the stream(s), observe the break between the water influence zone and upland vegetation on the stream bank; this is usually the spring high water mark. Then measure stream width between the OHWMs on either side of the stream at 50 feet intervals along the stream bank for a minimum distance of 500 feet. This determines the average width of the stream. For further information see page M-11 of the board manual.

Stream Gradient: The gradient of a stream is defined as the inclination or rate of fall of a stream bed, expressed as a percentage. The average gradient of a stream is determined by calculating the inclination of individual sub-reaches over a minimum distance of 500 feet along a stream or to a point where distinct gradient changes occur. For further information see page M-14 of the board manual (only use the method for field measurements; do not use the mapping method).

Note: Streams with widths of twenty feet (20') or greater or lakes, ponds, or impoundments having a surface area of 1 acre or greater at seasonal low water, may be type 2 waters.
DNR Trust Forestland HCP Water Typing Key
ADDENDUM TO INSTRUCTIONS FOR COMPLETING THE FOREST PRACTICE APPLICATION

STREAM(S) J, O, P, Q, T, V, Z, Y  ID DATE: 06/30/2017

Within your road construction and harvest area, you need to physically review these streams on the ground to determine if they meet the criteria of Type 3 water. Refer to DNR Trust Forestland HCP Water Typing System to determine Type 1 and 2 waters.

1. Were any fish observed in the stream segment, or are fish known to use this stream segment?
   ______ Yes. Type 3 stream.
   ______X____ No. Go to question # 2.

2. Has the stream been surveyed?
   ______ Yes. Attach the survey data to the Application/Notification.
   ______Fish found. Type 3 stream.
   ______ No fish. Is the average width of the stream segment two feet (2’) or wider between the ordinary high water marks?
        ______ Yes. Type 4 stream.
        ______ No. Type 5 stream.
   ______X____ No. Go to question # 3.

3. Is the average width of the stream segment two feet (2’) or wider between the ordinary high water marks?
   ______X____ Yes. Go to question # 4.
   ______ No. Type 5 Stream.

4. Is the gradient of the stream segment 16% or less?
   (Example: 16’ fall in elevation over 100 feet of stream = 16/100 = .16 or 16%).
   ______ Yes. Type 3 stream.
   ______X____ No. Go to question # 5.

5. Is the average gradient of the stream segment greater than 16% and less than or equal to 20%?
   ______ Yes. Go to question # 6.
   ______X____ No. Type 4 stream.

6. Is the contributing basin (watershed) size to the stream segment greater than 50 acres?
   ______ Yes. Type 3 stream.
   ______ No. Type 4 stream.

Definitions:
Stream Width: To determine the Ordinary High Water Mark (OHWM) of the stream(s), observe the break between the water influence zone and upland vegetation on the stream bank; this is usually the spring high water mark. Then measure stream width between the OHWMs on either side of the stream at 50 feet intervals along the stream bank for a minimum distance of 500 feet. This determines the average width of the stream. For further information see page M-11 of the board manual.
Stream Gradient: The gradient of a stream is defined as the inclination or rate of fall of a stream bed, expressed as a percentage. The average gradient of a stream is determined by calculating the inclination of individual sub-reaches over a minimum distance of 500 feet along a stream or to a point where distinct gradient changes occur. For further information see page M-14 of the board manual (only use the method for field measurements; do not use the mapping method).

Note: Streams with widths of twenty feet (20’) or greater or lakes, ponds, or impoundments having a surface area of 1 acre or greater at seasonal low water, may be type 2 waters.

1-14-08
DNR Trust Forestland HCP Water Typing Key
ADDENDUM TO INSTRUCTIONS FOR COMPLETING THE FOREST PRACTICE APPLICATION

STREAM(S) C, D, G, H, K, L, M, AE, AG, W, AI, AB

ID DATE: 06/30/2017

Within your road construction and harvest area, you need to physically review these streams on the ground to determine if they meet the criteria of Type 3 water. Refer to DNR Trust Forestland HCP Water Typing System to determine Type 1 and 2 waters.

1. Were any fish observed in the stream segment, or are fish known to use this stream segment?
   _____ Yes. Type 3 stream.
   X  No. Go to question # 2.

2. Has the stream been surveyed?
   _____ Yes. Attach the survey data to the Application/Notification.
   _____ Fish found. Type 3 stream.
   _____ No fish. Is the average width of the stream segment two feet (2') or wider between the ordinary high water marks?
   X  No. Type 5 stream.

3. Is the average width of the stream segment two feet (2') or wider between the ordinary high water marks?
   X  No. Go to question # 4.
   X  No. Type 5 Stream.

4. Is the gradient of the stream segment 16% or less?
   (Example: 16' fall in elevation over 100 feet of stream = 16/100 = .16 or 16%).
   X  Yes. Type 3 stream.
   X  No. Go to question # 5.

5. Is the average gradient of the stream segment greater than 16% and less than or equal to 20%?
   X  Yes. Go to question # 6.
   X  No. Type 4 stream.

6. Is the contributing basin (watershed) size to the stream segment greater than 50 acres?
   X  Yes. Type 3 stream.
   X  No. Type 4 stream.

Definitions:

Stream Width: To determine the Ordinary High Water Mark (OHWM) of the stream(s), observe the break between the water influence zone and upland vegetation on the stream bank; this is usually the spring high water mark. Then measure stream width between the OHWMs on either side of the stream at 50 feet intervals along the stream bank for a minimum distance of 500 feet. This determines the average width of the stream. For further information see page M-11 of the board manual.

Stream Gradient: The gradient of a stream is defined as the inclination or rate of fall of a stream bed, expressed as a percentage. The average gradient of a stream is determined by calculating the inclination of individual sub-reaches over a minimum distance of 500 feet along a stream or to a point where distinct gradient changes occur. For further information see page M-14 of the board manual (only use the method for field measurements; do not use the mapping method).

Note: Streams with widths of twenty feet (20') or greater or lakes, ponds, or impoundments having a surface area of 1 acre or greater at seasonal low water, may be type 2 waters.

1-14-08
DNR Trust Forestland HCP Water Typing Key
ADDENDUM TO INSTRUCTIONS FOR COMPLETING THE FOREST PRACTICE APPLICATION

STREAM(S) A, R, AH, AJ
ID DATE: 06/30/2017

Within your road construction and harvest area, you need to physically review these streams on the ground to determine if they meet the criteria of Type 3 water. Refer to DNR Trust Forestland HCP Water Typing System to determine Type 1 and 2 waters.

1. Were any fish observed in the stream segment, or are fish known to use this stream segment?
   _____ Yes. Type 3 stream.
   _____ X  No. Go to question # 2.

2. Has the stream been surveyed?
   _____ X  Yes. Attach the survey data to the Application/Notification.
   _____ _____ Fish found. Type 3 stream.
   _____ X  No fish. Is the average width of the stream segment two feet (2') or wider between the ordinary high water marks?
   _____ Yes. Type 4 stream.
   _____ X  No. Type 5 stream.
   _____ No. Go to question # 3.

3. Is the average width of the stream segment two feet (2') or wider between the ordinary high water marks?
   _____ Yes. Go to question # 4.
   _____ No. Type 5 Stream.

4. Is the gradient of the stream segment 16% or less?
   (Example: 16' fall in elevation over 100 feet of stream = 16/100 = .16 or 16%).
   _____ Yes. Type 3 stream.
   _____ X  No. Go to question # 5.

5. Is the average gradient of the stream segment greater than 16% and less than or equal to 20%?
   _____ Yes. Go to question # 6.
   _____ No. Type 4 stream.

6. Is the contributing basin (watershed) size to the stream segment greater than 50 acres?
   _____ Yes. Type 3 stream.
   _____ X  No. Type 4 stream.

Definitions:
Stream Width: To determine the Ordinary High Water Mark (OHWM) of the stream(s), observe the break between the water influence zone and upland vegetation on the stream bank; this is usually the spring high water mark. Then measure stream width between the OHWMs on either side of the stream at 50 feet intervals along the stream bank for a minimum distance of 500 feet. This determines the average width of the stream. For further information see page M-11 of the board manual.
Stream Gradient: The gradient of a stream is defined as the inclination or rate of fall of a stream bed, expressed as a percentage. The average gradient of a stream is determined by calculating the inclination of individual sub-reaches over a minimum distance of 500 feet along a stream or to a point where distinct gradient changes occur. For further information see page M-14 of the board manual (only use the method for field measurements; do not use the mapping method).

Note: Streams with widths of twenty feet (20') or greater or lakes, ponds, or impoundments having a surface area of 1 acre or greater at seasonal low water, may be type 2 waters.
Background

This report is intended to provide supporting documentation for a forest practice application for the proposed Hidden Gems timber sale, which is being developed by DNR's state lands timber sale program. This proposal has one unit (Unit 1) that is located adjacent to the area sampled. The subject stream and unit are located on DNR land, in Section 18 of Township 28 North, Range 8 East.

The stream of interest was not previously modeled. DNR presales forester Brent Daugherty measured physical stream channel characteristics for the stream (see Appendix A for stream profile data). This stream originates in the northeastern part of the unit, and has a very short segment with the physical parameters of a type 5 stream, before it flows southeastern into a small (<1/4 acre) wetland located to the east of the unit. It then continues out of the wetland with the physical parameters of a type 3 stream, and flows southeast and southward for approximately 1,191 feet, until it converges with an unnamed Type 3 stream that is a tributary to the Sultan River. This Type 3 stream is known to contain fish, and is located to the west and south of Unit 1. After the convergence of the subject stream with the Type 3 stream, it continues southeastward for approximately 2,450 feet until it enters the Sultan River.

A survey effort was conducted because the subject stream segment had not been previously verified, and physical criteria suggested that functional habitat exists for a portion of its length, with a natural fish barrier identified approximately 187 feet above the confluence with the Type 3 stream. This fish barrier is a steep cobble bed that runs for approximately 25 feet with a sustained slope of 35±%. There is an additional 75+ foot stretch downstream of this feature that has stepped pools and a bedrock cascade with a sustained slope of 30-35%. See Figures 1-4 for maps and photos representing the stream and the fish barrier.

In October 2017, the Washington Department of Natural Resources (DNR) state lands program initiated consultation with fisheries representatives from The Tulalip Tribes and Washington Department of Fish & Wildlife (WDFW) regarding the Hidden Gems timber sale, and later requested field consultation. On December 4, 2017 an ID Team field review was conducted, with fish biologists from these agencies present. The general agreement during this review was that the steep cobble segment represents a fish barrier. In addition, it was noted that this stream is not likely to support fish due to a substrate that consists primarily of muck and sand. The fish biologist for The Tulalip Tribes recommended the starting location for an electrofishing survey (see below for a description), and encouraged the survey to occur during a window of opportunity when the flow level was expected to be conducive to such work. Inherent in this was approval to conduct stream survey work outside of the normal electrofishing survey window.

Electrofishing Survey

On December 7, 2017, an electrofishing survey was performed by biologist Lisa Engvedt (DNR), accompanied by DNR forester Brent Daugherty. The purpose of this survey was to determine the presence/absence of fish for the subject stream.
Water temperature and conductivity at the start of the survey was measured as 7.3°C and 27μS, respectively. A Smith-Root LR-20 backpack electrofisher was used to conduct the survey with the following settings: 400 volts, 30 Hertz, and 15% duty cycle. Water clarity was good throughout the survey, allowing good visibility in all habitat surveyed.

See Figure 3 for a photo taken from the base of the fish barrier, and Figure 4 for a representation of general stream conditions where the surveys were conducted. Electrofishing was conducted beginning approximately 50 feet above the potential barrier, immediately upstream of a small recreational bridge (which was the recommended location mentioned above). No “qualifying” pools were encountered during the full length of the stream. A total of 450 seconds of electrofishing effort was expended over approximately 895 feet of channel length. No fish were observed. Based on these results, this stream is proposed to be a Type 4/Np water.
Figure 1. Proposed stream type for a stream associated with the Hidden Gems timber sale (Unit 1), 1" to 1,000'. 
Figure 2. Proposed stream type for a stream associated with the Hidden Gems timber sale (Unit 1), zoomed in.
Figure 3. Fish barrier, 25-foot cobble step with 35+% sustained slope.
Figure 4. Photo of a representative segment of the stream of interest.
Appendix A. Profile measurements on subject stream (Note: width was measured at BFW)

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</tr>
<tr>
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</tr>
<tr>
<td>Near confl.</td>
<td>3.3</td>
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* cascading falls  
** flattens out
Forest Practices Application/Notification Addendum
DNR Trust Lands HCP Implementation Checklist for the Marbled Murrelet, 2014
North Puget Planning Unit Only

Refer to the DNR Trust Lands HCP Implementation Summary for the Marbled Murrelet, 2014 and North Puget Planning Unit (NPPU) memos dated 02/23/2007 and 06/12/2009. Marbled Murrelet GIS habitat and occupied site delineation is available at on the Quick Data Loader and State Uplands Viewing Tool titled “State Lands – Marbled Murrelet – HCP Policy”.

1. Is the proposed Forest Practices activity within potential habitat, occupied site, Criteria 3 newly identified habitat or suitable habitat not available for release?¹?
   - □ Yes, proposal is inconsistent with current HCP strategy. Stop Proposed Activity or document in Question #6 specifics of proposal and Forest Resources Division approval if intending to proceed.
   - ☒ No, not within suitable habitat not available for release, potential, occupied, or Criteria 3 newly identified habitat. Go to Question #2.

2. Is the proposed activity within releasable¹ suitable habitat according to the NPPU memo (dated 6/12/2009)?
   - □ Yes, document in Question #6 the WAU name, total suitable MM habitat acres allowed to be harvested within the WAU and the total acres to date of suitable MM habitat harvested within the WAU after this proposed harvest. Go to Question #3.
   - ☒ No, proposal is not within releasable suitable habitat. Go to Question #3.

3. Is the proposed activity located within unsurveyed Criteria 1 newly identified habitat that is within 0.25 miles of an occupied site, or unsurveyed Criteria 2 newly identified habitat?
   - □ Yes, proposal is inconsistent with the current HCP strategy. Stop Proposed Activity or document in Question #6 specifics of proposal and Forest Resources Division approval if intending to proceed.
   - ☒ No, go to Question #4.

¹ Some suitable habitat may be available for harvest (releasable) if 50% of the habitat will remain within the WAU and it is greater than 0.5 miles from an occupied site and identified per NPPU memo dated 6/12/2009. Criteria 1 habitat is: Habitat ≥ 5 acres but ≤ 10 acres with ≤ 10 platforms per acre OR Habitat > 10 acres but ≤ 20 acres with ≤ 5 platforms per acre. Criteria 2 habitat is: Habitat ≥ 5 acres but ≤ 10 acres with > 10 platforms per acre OR Habitat > 10 acres but ≤ 20 acres with > 5 platforms per acre OR Habitat > 20 acres with ≤ 15 platforms per acre. Criteria 3 is: Habitat ≥ 20 acres with >15 platforms per acre.

Page 1 of 3
Revised 4/11/2014
4. Is the proposed activity located within surveyed and unoccupied Criteria 1 or 2 newly identified habitat, or unsurveyed Criteria 1 that is greater than 0.25 miles from an occupied site and is the activity only for operational access (roads or yarding corridors) through this habitat type?
   □ Yes, proposal is consistent with the current HCP. Timing restrictions are applied when operating within this habitat and remaining habitat is deferred from harvest. Consult with Region biologist/specialist for recommendations on minimizing platform tree removal. Document in Question #6 the type of operational access, but first go to Question #5.
   ☒ No, go to Question #5.

5. Is the proposed harvest activity within ¼ mile of any marbled murrelet occupied site(s), Criteria 3 newly identified habitat or unsurveyed suitable MM habitat?
   ☒ Yes, consult with Region biologist/specialist for recommendations on buffers and timing restrictions. Go to Question #6 and document type of buffer of occupied site or suitable habitat.
   □ No, proceed with activity; go to Question #6 if any documentation is required.

6. This question or section is for additional information the checklist suggested you provide in previous questions or any additional information you think is relevant to the proposal. If you were able to answer the previous questions without a “Stop Proposed Activity” notification then your proposal is consistent with the HCP and may proceed. Otherwise, more documentation is required here. If varying from current HCP guidance, attach consultation agreement from Forest Resources Division and/or USFWS and discuss below.

Please reference the Wildlife Memo by Lisa Egtvedt dated January 8, 2018 for more information.

The nearest known occupied marbled murrelet site is located as close as 165 feet to the east of Unit 6. The occupied detections were made during surveys that were conducted on adjacent lands by a private consulting firm for the Snohomish PUD in 2014-2015. These detections were not associated with the habitat on DNR-managed land until it was delineated for the Hidden Gems timber sale proposal during the summer of 2017. Unit boundaries were marked in order to ensure a minimum 165-foot no-harvest buffer, and timing restrictions for the marbled murrelet breeding season will be implemented for this unit per the NPPU Interim Marbled Murrelet Strategy.

Timing restrictions will also be implemented for the northernmost portion of Unit 7, due to the possible extension of another area of newly-identified Criteria 3 habitat (which was only partially delineated for a previous timber sale, Blue Tuxedo. The potential habitat is located approximately 1,000 feet to the north of Hidden Gems Unit 7.

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2 “Unsurveyed suitable habitat” refers to potential habitat identified per the NPPU 20C7 memo that has been field verified as suitable, but not yet surveyed.
Timing restrictions will be implemented on all harvesting and road building activities within a half mile radius of the detection site. The restrictions run from one hour before official sunrise to two hours after official sunrise and one hour before official sunset to one hour after official sunset from April 1 through August 31.
Forest Practices Application/Notification Addendum DNR
State Trust Lands HCP Implementation Checklist for the
Northern Spotted Owl, 2017 (all HCP planning units & OESF)

Refer to the DNR State Trust Lands HCP Implementation Agreement for the NSO, 2017.

1. Is the Forest Practice activity within a NRF Management Area?
   ☑ Yes, Go to #2.
   ☒ No, Go to #6.

2. Is the Forest Practice activity within a designated 500-acre Nest Patch?
   ☑ Yes, Harvesting within a nest patch is inconsistent with HCP without consultation,
     refer to Substitution Agreement, Section I.A. Stop Proposed Activity or
     document in Question #17 the specifics of proposal and Forest Resources
     Division concurrence if intending to proceed. Maintenance of existing roads is
     permitted, describe road maintenance activity in Question #17. If able to proceed,
     go to #3.
   ☒ No, Go to #3.

3. Is the Forest Practice activity within 0.7 miles of a spotted owl nest site (status 1 or 2)?
   ☑ Yes, Apply timing restrictions; refer to Substitution Agreement, Section I. Go to #4.
   ☒ No, Go to #4.

4. Is the SOMU where the Forest Practice activity is located above the target amount of
   50% NRF habitat?
   ☑ Yes, Proceed with the activity, ensuring that habitat within the SOMU will not fall
     below the target amount of 50% and no more than 5% of sub-mature or better
     habitat within the SOMU is harvested within two years. Please describe in
     Question #17; if the activity will be harvesting habitat or non-habitat, whether it is
     an enhancement activity or even-age harvest and how many acres or percentage of
     NRF habitat will remain within the SOMU after harvest. Go to #16.
   ☒ No, Go to #5.

5. Is the Forest Practice activity within suitable sub-mature habitat or better or “next best”?
   ☑ Yes, Ensure NRF habitat remains after completion of the harvest activity or that the
     activity will not increase the length of time for the target amount to reach a suitable
     habitat condition. Please describe in Question #17, type of activity, how habitat
     will be maintained or next best stands enhanced and what the final stand condition
     will be. Go to #16.
   ☒ No, Ensure that target amount of habitat within the SOMU will not take longer to
     achieve after activity. Please describe in Question #17 how management activity
     will maintain and/or achieve the NRF target amount. Go to #16.

6. Is the Forest Practice activity within a Dispersal or DFC Management Area?
   ☑ Yes, Go to #7.
   ☒ No, Go to #10.

7. Is the Forest Practice activity within 0.7 miles of a spotted owl nest site (status 1 or 2)?
   ☑ Yes, Apply timing restrictions; refer to Substitution Agreement, Section I. Go to #8.
   ☒ No, Go to #8.

8. Is the SOMU where the Forest Practice activity is located, above the target amount of 50%
    dispersal habitat?
   ☑ Yes, Proceed with the activity, ensuring that habitat within the SOMU will not fall
   ☒ No, Go to #9.

Revised 1/11/2018
below the target amount of 50%. Please describe in Question #17; if the activity will be harvesting habitat or non-habitat, whether it is an enhancement activity or even-age harvest and how many acres or percentage of dispersal habitat will remain within the SOMU after harvest. Go to #16.

☐ No, Go to #9.

9. Is the Forest Practice activity within suitable dispersal habitat or better or “next best”?
☐ Yes, Ensure dispersal habitat remains after completion of the harvest activity or that the activity will not increase the length of time for the target amount to reach a suitable habitat condition. Please describe in Question #17, type of activity, how habitat will be maintained or next best stands enhanced and what the final stand condition will be. Go to #16.

☐ No, Ensure that target amount of habitat within the SOMU will not take longer to achieve after activity. Please describe in Question #17 how management activity will maintain and/or achieve the dispersal target amount. Go to #16.

10. Is the Forest Practice activity located within the OESF?
☐ Yes, Go to #11.
☒ No, Go to #16.

11. Is the Forest Practice Activity within Young Forest Habitat, Old Forest Habitat, or a Pathways Management Candidate Stand?
☐ Yes, Go to #12.

☐ No, Proceed with the activity, Please describe in Question #17; whether it is an enhancement activity or even-age harvest and how many acres. Describe percentage of suitable habitat will remain within the SOMU after harvest. Go to #16.

12. Is the Forest Practice activity in a SOMU in the maintenance and enhancement phase?
☐ Yes, Activity can proceed if it ensures commitments to OESF Forest Land Plan as described within the Substitution Agreement, Section II and that habitat within the SOMU will not fall below the target amount. For Old Forest Habitat both the 20% Old Forest and 40% Young Forest and Better thresholds must be maintained. Active and Passive Pathways Management Candidate Stands are available if thresholds are maintained. Please describe in Question #17 how management activity will maintain habitat thresholds and how any candidate stands will be managed in accordance with the pathway prescription. Go to #16.

☐ No, Go to #13.

13. Is the Forest Practice activity in Old Forest Habitat in a SOMU that is in the Restoration Phase?
☐ Yes, No harvesting of Old Forest Habitat is allowed during the Restoration Phase.

☐ No, Go to #14.

14. Is the Forest Practice activity a regeneration harvest of Young Forest Habitat in a SOMU that is in the Restoration Phase?
☐ Yes, No regeneration harvest of Young Forest Habitat in a SOMU during the Restoration Phase without consultation with the HCP and Scientific Consultation Section. Describe in #17 how many acres or percentage of suitable habitat will remain within the SOMU after harvest. Document the reasons for harvest of young forest habitat and provide documentation of approval. Go to #16.

☐ No, Go to #15.
15. Is the Forest Practice activity in an Active or Passive Pathways Management Candidate Stand in a SOMU that is in the Restoration Phase?
   □ Yes,  No harvesting of Passive Pathways Management Candidate Stand is allowed during the Restoration Phase. Active Pathways Management Candidate Stands can only have thinning activities. Please describe in Question # 17 how management activity will maintain habitat thresholds or how thinning activities will enhance habitat. Describe in #17 how many acres or percentage of suitable habitat will remain within the SOMU after harvest.
   □ No, Proceed with the activity, if commitments to the OESF Forest Land Plan as described within the Substitution Agreement and the SOMU are maintained and habitat does not fall below the minimum threshold. Please describe in Question # 17 how management activity will maintain habitat thresholds or how thinning activities will enhance habitat. Describe in #17 how many acres or percentage of suitable habitat will remain within the SOMU after harvest. Go to #16.

16. Is the Forest Practice activity located within a Status 1 or 2 spotted owl management circle based on the WDFW database?
   □ Yes, Apply harvest timing restrictions to activities within the best 70-acre core around the site center; refer to Substitution Agreement, Section III. Include location of best 70-acre core on Forest Practices Map. Go to #17.
   ☒ No, Go to #17.

17. Provide any additional information or details requested from previous questions on the following lines. If no additional information is required, simply state “not applicable” below. Otherwise, include the SOMU name(s) when necessary if activity is within NRF or dispersal management areas or OESF and how habitat will be maintained or enhanced, etc. If varying from standard HCP guidance, attach concurrence/variance approval from Land Management Division and/or Federal Services and discuss below.

End checklist.

Not Applicable
January 8, 2018

TO: Bryent Daugherty, Forester

FROM: Lisa Egtvedt, Wildlife Biologist

SUBJECT: Wildlife Review of the Proposed Hidden Gems Timber Sale

This memo serves as documentation of a region biologist review of the proposed Hidden Gems Timber Sale in section 1 of Township 28 North, Range 7 East; sections 5, 6, and 8 of Township 28 North, Range 8 East; and section 32 of Township 29 North, Range 8 East. This proposal is comprised of variable retention harvest in stands that are approximately 60-90 years old.

I conducted field reviews within and adjacent to most of the units of this proposal on multiple days spanning between June 22 and December 7, 2017. The primary purpose of these visits was to verify marbled murrelet habitat delineation work that had been conducted by Jordan Gomes and Graeme Riggins (DNR biologists), as well as some delineation work that was conducted by Bryent Daugherty (DNR presales forester, who has been trained to conduct habitat delineation). I also reviewed some of the units for HCP or other habitat features, and provided recommendations regarding the leave tree strategy. All of these field visits were conducted on my own.

The field visit on December 7 was conducted in order to perform an electrofishing survey of a stream associated with Unit 1. I was accompanied by Bryent Daugherty during this survey. Please see the report titled “Electrofishing Protocol Survey Report, Hidden Gems Timber Sale” for more information regarding this survey and the results.

Based on the site visits and a GIS review, I have the following input:

- None of the units contain suitable marbled murrelet habitat, and only four of the units contain one to several platform trees, all of which have been marked as leave trees.
- There is newly-identified Criteria 2 murrelet habitat located immediately to the east of Unit 4, and newly-identified Criteria 3 habitat located to the east of Unit 6.
- I provided recommendations for leave trees for most of the units, although there were not any specific HCP features (other than platform trees and other structurally unique trees) that were observed in any of the units to target for leave trees. Snags were observed in some of the units, and I have been informed that some of them have been provided with L&I buffers through the placement of leave tree areas (LTAs) when feasible. Large-diameter trees and structurally unique trees have been marked for retention where possible. Some of the units contain relatively large LTAs and/or LTAs located on the edges of the units. I have been informed of the reasons for the size and/or location of these LTAs and concur with the general approach for these LTAs and the overall leave tree strategy.
- A planned extension of an existing road within a previous harvest unit (Paystreak, Unit 1) into Unit 6 of the proposed Hidden Gems Timber Sale will result in the removal of three leave trees that were retained for the adjacent Paystreak Timber Sale. These include two Douglas-fir trees of approximately 30” dbh and a ~10”-dbh western hemlock snag. Trees
of similar species and size have been added to the leave trees in Hidden Gems Unit 6 to mitigate for this loss of leave trees in Paystreak Unit 1.

- There is a large, open-water pond/lake located to the northeast of Unit 5. During my field visit to that location on July 7, 2017, I detected much wildlife activity in and around this water body. I did not identify any species of concern, but heard alarm calls from what I interpreted to be a cavity-nesting duck (not identified to exact species), and other noises in the water. I also heard bull frogs at this location (a non-native species that threatens a number of native fish and amphibian species). An average 153-foot no-harvest buffer was applied to this water body.

**General Proposal Area**

Following a GIS review of WDFW and DNR wildlife & habitat databases, it was determined:

- The nearest known occupied marbled murrelet site is located as close as 165 feet to the east of Unit 6. The occupied detections were made during surveys that were conducted on adjacent lands by a private consulting firm for the Snohomish PUD in 2014-2015. These detections were not associated with the habitat on DNR-managed land until it was delineated for the Hidden Gems timber sale proposal during the summer of 2017. Unit boundaries were marked in order to ensure a minimum 165-foot no-harvest buffer, and timing restrictions for the marbled murrelet breeding season will be implemented for this unit.

- Timing restrictions will also be implemented for the northernmost portion of Unit 7, due to the possible extension of another area of newly-identified Criteria 3 habitat (which was only partially delineated for a previous timber sale, Blue Tuxedo). The potential habitat is located approximately 1,000 feet to the north of Hidden Gems Unit 7.

- According to the WDFW Priority Habitat and Species database, there is potential harlequin duck nesting habitat located 300 feet or more to the east of Unit 6, along the Sultan River. The Forestry Handbook procedure for this species requires timing restrictions within 165 feet of an active harlequin duck nest; therefore, due to a much larger distance from what is only potential habitat (i.e., no known nests), no mitigation measures are necessary for this species in association with this proposal.

Besides those mentioned above, no other occurrences of habitats or species of concern are reported within or near the proposal area.

Thank you for the opportunity to review and provide input for this proposal.
Forest Practices Application/Notification

Notice of Decision

Decision

[ ] Notification

[ ] 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

Region:

Northwest

Date:

3/27/2018

Copies to:

[x] Landowner, Timber Owner and Operator.

Issued in person:

[x] Landowner  [ ] Timber Owner  [ ] Operator

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

Page 1
**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.eluho.wa.gov/](http://www.eluho.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:

<table>
<thead>
<tr>
<th>Office of the Attorney General</th>
<th>Department Of Natural Resources</th>
</tr>
</thead>
<tbody>
<tr>
<td>Natural Resources Division</td>
<td>Northwest Region</td>
</tr>
<tr>
<td>1125 Washington Street SE</td>
<td>919 N Township St</td>
</tr>
<tr>
<td>PO Box 40100</td>
<td>Sedro-Woolley WA 98284</td>
</tr>
<tr>
<td>Olympia, WA 98504-0100</td>
<td></td>
</tr>
</tbody>
</table>

**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)**

Use the “Notice of Transfer of Approved Forest Practices Application/Notification” form. This form is available at region offices and on the Forest Practices website: [http://www.dnr.wa.gov/businesspermits/forestpractices](http://www.dnr.wa.gov/businesspermits/forestpractices). Notify DNR of new Operators within 48 hours.

**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 ____________, 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 #______________ .

__________________________  
(Printed name)  
__________________________  
(Signature)
<table>
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<td>Transfer Form</td>
<td>Change of timber owner &amp; operator</td>
</tr>
</tbody>
</table>
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.

30-096336 HIDDEN GEMS
FPA/N Number: 2816270  Section(s): 1,3,32,5,6,7,18  Township: 28,29N  Range: 07,08E

Original Landowner (Signature): ____________________________ Date: 9/14/18

Original Landowner (Printed): ORINGY COLEMAN

New Operator – Complete this section only if you are:
- Changing an operator for: _____________ Timber harvest _____________ Aerial spray
- Adding an operator for: _____________ Road construction _____________ Road construction _____________ Timber harvest _____________ Aerial spray

Legal Name of New Operator: (Print) SIERRA PACIFIC INDUSTRIES
Phone: 360-424-7619
Email:

New Operator Signature: ____________________________ Date: 8/31/18

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) Mailing Address: 
Phone: 14353 MCFARLAND ROAD MOUNT VERNON, WA 98273
Email:

New Landowner Signature: ____________________________ Date:

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

Legal Name of Timber Owner: (Print) SIERRA PACIFIC INDUSTRIES
Phone: 360-424-7619
Email: 14353 MCFARLAND ROAD MOUNT VERNON, WA 98273

Forest Tax Reporting Account Number: (Contact Dept. of Revenue at: 1-800-548-8829)
800 059 489

New Timber Owner Signature: ____________________________ Date: 8/31/18

Received by: ____________________________ Date: 9/17/18
(DNR Forest Practices Staff Signature)  11/01/2017
Request to Amend
Forest Practices Application/Notification
DNR's Decision

Decision

☑ Approved  This request for an amendment is approved and subject to the conditions listed below

☐ Disapproved  This request for an amendment is disapproved for the reasons listed below

Conditions on Approval/Reasons for Disapproval

Appeal Information (RCW 76.09.090(3), WAC 222-46-030(4), and WAC 332-08-215(3))

The Landowner, Timber Owner, or Operator has 15 calendar days from the Date of Service to request a Brief Adjudicative Proceeding for this amendment which is a Notice to Comply for an authorized deviation. Appeal requests must:

• Be in writing
• Include signature(s)
• Include the factual basis for the appeal and the issue to be adjudicated
• Sent to the Region Office at Sedro-Woolley
• With a copy sent to the Department of Natural Resources, Forest Practices Division, PO Box 47012, Olympia, WA 98504-7012

Issued By: Steven Huang  Title: Skykomish Forest Practice Forester

Copies Sent To: Landowner (via US Mail), Timber Owner (via US Mail), Operator (via US Mail), WDFW, ECY, Affected Indian Tribes, LGE, other

E-mailed 10-1-18

Washington State Department of Natural Resources • Amendment Request Notice of Decision • July 1, 2010  Page 1 of 2
DNR affidavit of mailing:

On this day 10-1-18, I placed in the United States mail at Sedro-Woolley, WA, postage paid, a true and accurate copy of this Amendment Request Notice of Decision for FPA # 2816270

(date) (post office location)

(postage paid)

(Printed name) (Signature)
Request to Amend Forest Practices Application/Notification

Use this to request an amendment to an approved Western Washington, Eastern Washington, or Aerial Chemical Applications/Notifications

TYPE OR PRINT IN INK:

1. Landowner, Timber Owner, and Operator information

<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>Department of Natural Resources</td>
<td>Sierra Pacific Industries</td>
<td>Nielsen Bros. Inc.</td>
</tr>
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</table>

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<th>Mailing Address:</th>
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<tbody>
<tr>
<td>919 N. Township St.</td>
<td>14353 McFarland Road</td>
<td>100 Pine St.</td>
</tr>
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<th>City, State, Zip</th>
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</thead>
<tbody>
<tr>
<td>Sedro-Woolley, WA, 98284</td>
<td>Mount Vernon, WA, 98273</td>
<td>Bellingham, WA, 98225</td>
</tr>
</tbody>
</table>

| Phone (360) 856-3500 | Phone (360) 424-7619 | Phone (360) 671-8078 |

<table>
<thead>
<tr>
<th>Email:</th>
<th>Email:</th>
<th>Email:</th>
</tr>
</thead>
</table>

2. Approved FPA/N Number 2816270

3. Describe the proposed amendment to the original FPA/N. You can attach revised pages of an FPA/N, or give specific details. Include a new Activity Map if you are proposing any changes to the original.

One log stringer bridge is proposed for installation rather than one countersunk culvert. The proposed bridge would be in lieu of the 71” x 47” x 30’ culvert at station 7+98 on the LL-29 road. This crossing structure is located on an optional road segment and is planned for abandonment. Installation of the proposed pipe outlined in the road plan is designed to be countersunk and filled with gravel. This would entail dewatering the stream, digging down the existing stream channel, and then filling the pipe with gravel material that is inconsistent with current stream characteristics. Removal of the pipe would again entail dewatering, removing the gravel material, and sloping the stream channel back to the conditions that were present prior to installation. The installation and removal process for the log stringer bridge would not require cewatering, digging within the stream channel, or filling with gravel. This would result in little to no in stream work and significantly reduce impacts to the fish bearing stream. It would also result in the stream retaining its current bed and bank integrity during both the installation and removal process. Drawings for the proposed log stringer bridge are provided and would be built to current DNR specifications, except for riprap installation. Riprap would not be installed because both streams are low gradient with low flow, even during peak events, and would result in less disturbance to stream beds and banks.

4. I affirm that the information contained herein is true, and understand that this proposed forest practice is subject to the Forest Practices Act and Rules, as well as 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. I understand this amendment is a request for a Notice to Comply for an authorized deviation as described in WAC 222-20-060.

5. [Signature] 09/11/2018

Landowner’s Signature  Date
LOG STRINGER BRIDGE INSTALLATION DETAILS

WHEELGUARD HEIGHT = 16" ABOVE ROAD SURFACE

BALLAST

STILL LOG

CHANNEL

GEOTEXTILE

STRINGERS (ALTERNATE TAPER)

14' MINIMUM

PROFILE VIEW

SPAN

BURY WINGLOGS

REPRAP 1:1 MAX SLOPE

SILL LOG SHALL HAVE A MINIMUM DIA. OF 24" AND BE SET ON SUITABLE COMPACTED MATERIAL

END VIEW

6" MAXIMUM BALLAST DEPTH

WHEELGUARD

NOTCH SILL LOG PRIOR TO SETTING WING LOG

NOTES:

ALL MATERIALS SHALL BE APPROVED BY THE CONTRACT ADMINISTRATOR.

ANY DESIGN CHANGES SHALL BE APPROVED BY THE CONTRACT ADMINISTRATOR.

STRINGERS AND WHEELGUARDS SHALL BE LASHED TOGETHER WITH 7/8" WIRE ROPE NEAR EACH END OF THE STRUCTURE.

WING LOGS SHALL BE LASHED TO SILL LOG AND STRINGERS WITH 7/8" WIRE ROPE AT EACH END OF STRUCTURE.

DRAWINGS NOT TO SCALE

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<tr>
<th>MAXIMUM STRINGER LENGTH</th>
<th>DOUGLAS-FIR</th>
<th>WESTERN HEMLOCK</th>
<th>WESTERN RED CEDAR</th>
<th>MINIMUM DIAMETER</th>
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<td>22'</td>
<td>22'</td>
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<td>32'</td>
<td>28'</td>
<td>26'</td>
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<td>48'</td>
<td>48'</td>
<td>37&quot;</td>
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TIMBER SALE MAP

SALE NAME: HIDDEN GEMS
AGREEMENT #: 30-098336
TOWNSHIP(S): T28R8E, T29R8E, T28R7E
TRUST(S): Common School and Indemnity (3), State Forest Transfer (1)

REGION: Northwest Region
COUNTY(S): Snohomish
ELEVATION RGE: 680-660

Note: Hidden Gems is comprised of:
Units 3, 4, 7, rw 2, and rw 3.

Harvest Area ~ 46 acres
Approximately:
Unit 3: 13.5
Unit 4: 12.3
Unit 7: 19.0
ROW: 1.0

Private Ownership

City Of Everett

All State Unless Otherwise Noted

Prepared By: bdau465
Modification Date: 9de49D 4/11/2018
<table>
<thead>
<tr>
<th>DATE</th>
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<tbody>
<tr>
<td>9/17/2018</td>
<td>Transfer Form</td>
<td>Change of timber owner &amp; operator</td>
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<tr>
<td>10/4/18</td>
<td></td>
<td>Change of operator</td>
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Forest Practices Application/Notification

NOTICE OF TRANSFER

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FPA/N Number: 2816270  Section(s): 1/5/6/32  Township: 28/29N  Range: 07/08E

Original Landowner (Signature): [Signature]

Original Landowner (Printed): COURTNEY COLEMAN  Date: 10/4/18

<table>
<thead>
<tr>
<th>New Operator – Complete this section only if you are:</th>
</tr>
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<tbody>
<tr>
<td>☑ Changing an operator for:</td>
</tr>
<tr>
<td>☐ Adding an operator for:</td>
</tr>
<tr>
<td>☐ Road construction</td>
</tr>
<tr>
<td>☑ Timber harvest</td>
</tr>
<tr>
<td>☐ Aerial spray</td>
</tr>
<tr>
<td>☐ Timber harvest</td>
</tr>
<tr>
<td>☐ Aerial spray</td>
</tr>
</tbody>
</table>

Legal Name of New Operator: Nielsen Bros, Inc.

Mailing Address:
100 Pine St
Bellingham, WA 98225

Phone: 360-671-8078

Email: david.nielsen@comcast.net

New Operator Signature: [Signature]  Date: 2/19/2018

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)

Mailing Address:

Phone:

Email:

New Landowner Signature:

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

Legal Name of Timber Owner: (Print)

Mailing Address:

Phone:

Email:

Forest Tax Reporting Account Number: (Contact Dept. of Revenue at: 1-800-548-8829)

New Timber Owner Signature:

Received by: [Signature]  Date: 10/4/18

(DNR Forest Practices Staff Signature)  11/01/2017
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<td>&quot; &quot;</td>
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<tr>
<td>11/21/18</td>
<td>&quot; &quot;</td>
<td>Added operator</td>
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FPA/N Number: 2816270

Section(s): 1, 3, 5, 6, 7, 18, 32

Township: 28:29N

Range: 07:08E

Original Landowner (Signature):

Original Landowner (Printed): COURTNEY COLEMAN

Date: 11/20/18

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Legal Name of New Operator: (Print)  NIelsen Brothers Inc.

Mailing Address:

100 E Pine Street

Bellingham, WA 98225

Phone: 360-671-9078

Email:

New Operator Signature: 11/20/18

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Legal Name of New Landowner: (Print)

Mailing Address:

Phone:

Email:

New Landowner Signature:

Date:

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

Legal Name of Timber Owner: (Print)

Mailing Address:

Phone:

Email:

Forest Tax Reporting Account Number: (Contact Dept. of Revenue at: 1-800-548-8829)

New Timber Owner Signature:

Date:

Received by: 11/21/18

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

FPA/N Number: 2816270 Section(s): 1/5/6/32 Township: 28/29N Range: 07/08E

Original Landowner (Signature): [Signature]

Original Landowner (Printed): COURTNEY COGSMAN Date: 4/10/19

New Operator – Complete this section only if you are:

- Changing an operator for: [ ] Timber harvest
- Adding an operator for: [ ] Road construction
- [ ] Timber harvest
- [ ] Aerial spray
- [ ] Aerial spray

Legal Name of New Operator: (Print) Precision Forestry, Inc.

Phone: 360-403-7197 Email:

New Operator Signature: [Signature] Date: 4/2/19

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)

Phone:

Email:

New Landowner Signature:

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

Legal Name of Timber Owner: (Print)

Phone:

Email:

Forest Tax Reporting Account Number: (Contact Dept. of Revenue at: 1-800-548-8829)

New Timber Owner Signature:

[ ] Received by: [Signature] Date: 4/11/19

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