Forest Practices Application/Notification
Office Checklist Page 1
Northwest Region

FPA/N #: 2817620
Received Date: 8/13/2020
Completed Date: 8/13/2020
WDFW Concurrence Due Date: ____________________
WDFW Concurrence Review Completed: ____________________
Comments Due Date: 8/27/2020
Decision Due Date: 9/12/2020
FP Forester: NW27
Shutdown Zone: 658
RMAP #: R280009L

FPA/N CLASSIFICATION: [ ] II [X] III [ ] IVG [ ] IVS
Biomass [ ] FFFPP [ ] 20-acre exempt [ ]

Landowner Name: Weyerhaeuser Company
Project Name: Duffy TRIB Culvert Replacement

WRIA: SNOHOMISH
WAU: SKYKOMISH RIVER

WRIA: ____________________
WAU: ____________________

Legal Description: NWSE 20-27-09E
County: SNOHOMISH

Activity Type: Harvest ac Spray ac Crossing(s) 1
Road Road Rock Pit ac Spoils cy

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

[ ] Habitat Conservation Plan
[ ] Landowner Option Plan for Northern Spotted Owl
[ ] Cooperative Habitat Enhancement Agreement

RESOURCE REVIEW
[ ] Unstable Slopes (Risk: Highway, Water: _________)
[ ] Soils Map (Highly Erodible & Very Unstable)
[ ] SLPSTAB
[ ] Landslide Inventory Polygon
[ ] Potential Avalanche Areas
[ ] High Avalanche Hazard Area
[ ] Rain-on-Snow and Outside Approved WA
[ ] Hydric Soils
[ ] Wetland [ ] Forested, [ ] A, [ ] B
[ ] In WMZ of [ ] A, or [ ] B Wetland
[ ] In RMZ/ELZ of Type [ ] S, [ ] F, [ ] N water
[ ] Water Verification
[ ] Bull Trout Overlay
[ ] HCP Bull Trout Population
[ ] Bald Eagle nest or roost within 660 feet
[ ] Group A or B Water Supply
[ ] Hatchery (Name: ____________________)
[ ] Even-Aged Harvest greater than 120 Acres
[ ] Ground-based Equipment on Slopes greater than 40%
[ ] Road Construction on Slopes greater than 65%
[ ] Saltwater Islands (Name: ____________________)
[ ] In or Over Typed Water
[ ] Volume greater than 5 mbf per acre

ASSOCIATED NON-SCANNED DOCUMENTS – On file with the FPA/N at the Region office.
[ ] SEPA Checklist/Documents
[ ] Large Landowner Road Maintenance and Abandonment Plan

ASSOCIATED SCANNED DOCUMENTS
[ ] Conversion Option Harvest Plan
[ ] FPHP Plans & Specifications
[ ] Qualified Expert Report; Type: ____________________
[ ] Natural Regeneration Plan
[ ] Shoreline Permit
[ ] Marbled Murrelet Form
[ ] FPBM Appendix(s)
[ ] Small Landowner RMAP Checklist
[ ] CMZ Assessment Form
[ ] Hardwood Conversion Form
[ ] Wetland Mitigation Plan
[ ] Water Protocol Surveys
[ ] Modification Form#
[ ] Water Classification Worksheet
[ ] Shade Documentation (Stream Shade Assessment Worksheet)
[ ] Watershed Analysis Worksheet
[ ] DFC Printout
[ ] Slope Stability Informational Form

ADDITIONAL COMMENTS: Form completed by LU___
Forest Practices Application/Notification
Western Washington

PLEASE USE THE INSTRUCTIONS TO COMPLETE THIS APPLICATION.

1. Landowner, Timber Owner and Operator

<table>
<thead>
<tr>
<th>Legal Name of LANDOWNER</th>
<th>Legal Name of TIMBER OWNER</th>
<th>Legal Name of OPERATOR</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weyerhaeuser Company</td>
<td>Weyerhaeuser NR</td>
<td>Weyerhaeuser NR</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Mailing Address:</th>
<th>Mailing Address:</th>
<th>Mailing Address:</th>
</tr>
</thead>
<tbody>
<tr>
<td>500 Metcalf Street, Building F-5E</td>
<td>500 Metcalf Street, Building F-5E</td>
<td>500 Metcalf Street, Building F-5E</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>City, State, Zip:</th>
<th>City, State, Zip:</th>
<th>City, State, Zip:</th>
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<tbody>
<tr>
<td>Sedro-Woolley, WA 98284</td>
<td>Sedro-Woolley, WA 98284</td>
<td>Sedro-Woolley, WA 98284</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Phone: 509-387-0321</th>
<th>Phone: 509-387-0321</th>
<th>Phone: 509-387-0321</th>
</tr>
</thead>
<tbody>
<tr>
<td>Email: <a href="mailto:wes.worden@weyerhaeuser.com">wes.worden@weyerhaeuser.com</a></td>
<td>Email: <a href="mailto:wes.worden@weyerhaeuser.com">wes.worden@weyerhaeuser.com</a></td>
<td>Email: <a href="mailto:wes.worden@weyerhaeuser.com">wes.worden@weyerhaeuser.com</a></td>
</tr>
</tbody>
</table>

2. Contact Person

<table>
<thead>
<tr>
<th>Contact Person:</th>
<th>Phone: 509-387-0321</th>
<th>Email: <a href="mailto:wes.worden@weyerhaeuser.com">wes.worden@weyerhaeuser.com</a></th>
</tr>
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<tr>
<td>Wes Worden</td>
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3. Are you converting any portion of the land to non-forestry use within 3 years of harvest?

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

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

Not Applicable—No Harvest

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

a. Are you eligible for EARR Tax Credit? ☐ No ☐ Yes

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5. Are you a small forest landowner per RCW 76.09.450? See instructions
   ☒ No  ☐ Yes  If yes, Check all that apply. If no, skip to Question 6.
   ☐ My entire proposed harvest area is on a single contiguous ownership consisting of one or more parcels.
   ☐ My proposed forest practices activities are within an area covered by an approved Forest Stewardship Plan or Forest Management Plan developed in cooperation with DNR.
   ☐ I received technical assistance from a DNR small forest landowner Stewardship and Technical Assistance Forester in preparing this FPA/N.
   ☐ I have participated in a Washington State University Extension Service and/or DNR-sponsored Forest Stewardship Coached Planning course.
   ☐ I have attended a Washington State University Extension Service and/or DNR-sponsored Family Forest Owner Field Day.

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

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

<table>
<thead>
<tr>
<th>Section</th>
<th>Township</th>
<th>Range</th>
<th>E/W</th>
<th>Tax Parcel Number</th>
<th>County</th>
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</thead>
<tbody>
<tr>
<td>20</td>
<td>27</td>
<td>9</td>
<td>E</td>
<td></td>
<td>Snohomish</td>
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8. Have you reviewed this forest practices activity area to determine whether it may involve historic sites and/or Native American cultural resources? Read the instructions before answering this question.
   ☒ No  ☐ Yes  If you made any contacts, please provide information in Question 28.

9. Do you have a DNR approved Road Maintenance and Abandonment Plan (RMAP)?
   ☐ No  ☐ Yes  Is a Small Forest Landowner RMAP Checklist required (see instructions)? ☐ No  ☐ Yes
   ☒ Yes  Enter your RMAP number: R28000009L
   Is this FPA/N for work that is included in this approved RMAP? ☐ No  ☐ Yes

10. Are there potentially unstable slopes or landforms in or around the area of your forest practices activity?
    ☐ No  ☒ Yes  If yes, attach Appendix D. Slope Stability Informational Form and map of areas reviewed for and locations of unstable slopes and landforms found. If applicable, attach a geotechnical letter, memo, or report, Watershed Analysis prescriptions, and/or a SEPA Environmental Checklist.
11. Is this Forest Practices Application/Notification (answer every question):
   a. X No ☐ Yes A request for a multi-year permit? If yes, length requested: ☐ 4 years or ☐ 5 years. Not everyone qualifies for a multi-year permit. See instructions for details.
   b. X No ☐ Yes An Alternate Plan? If yes, include a template or detailed plan. See instructions for details.
   c. X No ☐ Yes For a funded Forest Family Fish Passage Program project?
   d. X No ☐ Yes Within an urban growth area? If yes, see instructions for additional required documents.
   e. X No ☐ Yes Within a public park? If yes, include SEPA Environmental Checklist or SEPA Determination, except for harvest/salvage of less than 5,000 board feet within a developed public park. Park name: ____________________________________________________________________________
   f. X No ☐ Yes Within 500 feet of a public park? Park name: ____________________________________________________________________________
   g. X No ☐ Yes In an approved Conversion Option Harvest Plan (COHP) from the local government? If yes, include a copy. This only applies to proposals within urban growth areas.
   h. X No ☐ Yes Within 200 feet of the Ordinary High Water Mark (OHWM) or floodway of Type S Water? If yes, check with the county or city to determine whether a substantial development permit is required under the local shorelines master plan.
   i. ☐ No X Yes Within 50 miles of saltwater AND you own more than 500 acres of forest land in Washington State? If yes, include Marbled Murrelet Form or attach/reference HCP prescriptions.
   j. X No ☐ Yes In or directly adjacent to a potential Channel Migration Zone (CMZ)? If yes, include CMZ Assessment Form. Attach/reference applicable HCP and/or Watershed Analysis prescriptions.

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

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

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

12. Are you proposing any of the following projects NOT permitted by current HPAs from WDFW?
   a. X 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. X 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. X No ☐ Yes Placing fill material within the 100-year flood level of unconfined streams in Type S or F Water(s)?

13. Have you consulted with DNR and/or WDFW about the proposed hydraulic project(s) in or over Type S or F Water? X No ☐ Yes
14. If installing, replacing, removing, or maintaining structures in or over any typed Water, complete the table below. Provide crossing locations and identifiers on your Activity Map. Provide plan details in Question 28 or attach plan to the FPA/N. Type S and F Waters require detailed plan information. Complex hydraulic projects in Type N Waters may also be required per WAC 222-24-042(2). See instructions for detailed plan requirements.

<table>
<thead>
<tr>
<th>Crossing Identifier (letter, number)</th>
<th>Water Type (S, F, etc.)</th>
<th>Existing HPA Number (if applicable)</th>
<th>Planned Activity (install, replace, remove, temporary, structure maintenance)</th>
<th>Structure (bridge, ford/equipment crossing, site, arch, pipe arch, round culvert, other)</th>
<th>Proposed Size (width x length)</th>
<th>Culvert Design Method (no-slope, stream-sim, hydraulic, other) (F and S only)</th>
<th>Channel Bed Width (F and S only)</th>
<th>Stream Gradient (%) (F and S only)</th>
<th>Is this an RMA Project?</th>
</tr>
</thead>
<tbody>
<tr>
<td>A Np</td>
<td></td>
<td>replace</td>
<td>round culvert</td>
<td>60' x 40'</td>
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<td>No</td>
</tr>
</tbody>
</table>

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

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

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

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

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

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

<table>
<thead>
<tr>
<th>Road Identifier (name, number)</th>
<th>Road Construction</th>
<th>Road Abandonment</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Length (foot)</td>
<td>Steepest Side-slope (%)</td>
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</table>

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

<table>
<thead>
<tr>
<th>Spoil Area Identifier (letter, number)</th>
<th>Amount of Spoils Deposited (cubic yards)</th>
<th>Rock Pit Identifier (name, number or letter)</th>
<th>Acres of New Rock Pit Developed</th>
<th>Acres of Existing Rock Pit Expanded</th>
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18. If operating within 200 feet of a wetland that is not associated with Type S or F Water, complete the table below. Wetlands associated with Type S or F water should be listed in Question 25. Show the boundaries of each wetland, along with its identifier, and Wetland Management Zones on the Activity Map. See instructions for information.

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

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

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

<table>
<thead>
<tr>
<th>Unit Number</th>
<th>Harvest Type (Even-aged, Uneven-aged, Salvage, Right-of-Way)</th>
<th>Biomass Harvest (Yr. Hr.)</th>
<th>Harvest Method (rubber tired skidder, tracked skidder, dozer, shovel, full suspension cable, leading end suspension cable, helicopter, cable assist/tethered logging, animal, chipper, forwarder, slash bundler)</th>
<th>Acres to be Harvested</th>
<th>Volume to be Harvested (mbf)</th>
<th>Volume to be Harvested (tonnage)</th>
<th>Volume to be Harvested (%)</th>
<th>Steepest Slope in Harvest Unit (%)</th>
</tr>
</thead>
<tbody>
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</tbody>
</table>
20. Reforestation. Check all that apply:

☐ Planting. Tree Species: ______________________________________________________

☐ Natural. Include a Natural Regeneration Plan

☐ Not required because of one or more of the following:

☐ I am converting some or all of this land to non-forest land in the next 3 years or lands are exempted under WAC 222-34-050.

☐ Individual dead, dying, down, or wind-thrown trees will be salvaged.

☐ Trees are removed under a thinning program reasonably expected to maximize the long-term productivity of commercial timber.

☐ I am leaving at least 100 vigorous, undamaged, and well-distributed saplings or merchantable trees per acre.

☐ An average of 190 tree seedlings per acre are established on the harvest area and my harvest will not damage them.

☐ Road right-of-way or rock pit development harvest only.

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

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

☐ No Skip to Question 25.

☐ Yes Continue to Question 22. See instructions for qualifications and information.

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

☐ a. ALL of the following apply to me and my land: (If no, answer b.)

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

- Between June 5, 2006 and today's date this parcel has always been 20 acres or less of contiguous ownership. See RCW 76.09.020 for definition of 'contiguous'.

- Between June 5, 2006 and today's date this parcel has always been owned by me or someone else that has owned less than 80 acres of forest land in Washington.

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

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

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

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

<table>
<thead>
<tr>
<th>Stream Segment Identifier (letter)</th>
<th>Water Type (S, F)</th>
<th>Segment Length (feet)</th>
<th>Bankfull Width (feet)</th>
<th>RMZ Maximum Width (feet)</th>
<th>Are you harvesting within the maximum RMZ? (Y or N)</th>
</tr>
</thead>
<tbody>
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24. Are you harvesting within 29 feet of a Type Np Water on an exempt 20-acre parcel?

☐ No  Skip to Question 27.

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

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

<table>
<thead>
<tr>
<th>Stream Segment Identifier (letter)</th>
<th>Water Type (S, F)</th>
<th>Site Class (I - V)</th>
<th>Stream Width (feet)</th>
<th>Is there a CMZ? (Y or N)</th>
<th>RMZ Harvest Code(s) (see instructions)</th>
<th>DFC Run Number</th>
<th>Total width of RMZ (feet)</th>
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<tbody>
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26. If harvesting within 50 feet of Type Np Water, complete the table(s) below. Show RMZs and stream segment identifiers on the Activity Map.

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

- Harvest/Salvage Boundaries: Not Applicable
- Clumped Wildlife Reserve Trees/Green Recruitment Trees: Not Applicable
- Right-of-Way Limits/Road Centerlines: Existing Road
- Stream Crossing Work: Where existing road intersects with stream
- Riparian Management Zone Boundaries and Leave/Take Trees: Not Applicable
- Channel Migration Zone: Not Applicable
- Wetland Management Zone Boundaries and Leave/Take Trees: Not Applicable

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

A storm event (presumably January 2020) plugged the existing culvert (crossing A) and exposed old log puncheon that apparently wasn’t removed when the culvert was installed. Also the fill slope of the culvert was eroded. This proposal is to remove the plugged culvert and puncheon and install a properly sized culvert. The new crossing will be a dipped rock fill with coarse rip rap armoring the inlet and outlet of the culvert.

See included regression calculations for 100 year flows for culvert sizing.

Np1, Np2, and Ns1 were typed on past forest practices for their observed perennial or seasonal nature during summer/fall. These streams have gradients exceeding 20% above their confluence with Duffey Creek (F stream).
29. We acknowledge the following:

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

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

<table>
<thead>
<tr>
<th>Signature of Legal LANDOWNER</th>
<th>Signature of Legal TIMBER OWNER*</th>
<th>Signature of Legal OPERATOR</th>
</tr>
</thead>
<tbody>
<tr>
<td>Print Name: Wes Worden</td>
<td>Print Name: Wes Worden</td>
<td>Print Name: Wes Worden</td>
</tr>
<tr>
<td>Date: 08/11/2011</td>
<td>Date: 08/11/2011</td>
<td>Date: 08/11/2011</td>
</tr>
</tbody>
</table>

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

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

Complete and attach this form to your FPA/N if you indicated you are working in or around potential unstable slopes or landforms. Instructions for this appendix is located in in the Forest Practices Application/Notification Instructions document. Refer to WAC 222-16-050(1)(d) and Forest Practices Board Manual Section 16 - Guidelines for Evaluating Potentially Unstable Slopes for definitions and descriptions of potentially unstable slopes or landforms.

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

   b. Did any of the features identified during the preliminary screening (1.a.) not exist when you performed a field review? ☒ No, go to Question 2.a.  ☐ Yes, describe:

2. a. Are you conducting forest practices activities in or over potentially unstable slopes or landforms?
   - ☐ Inner Gorge  ☐ Groundwater recharge areas for glacial deep-seated landslides
   - ☐ Bedrock Hollow  ☐ Convergent Headwall  ☐ Outer edges of meander bends
   - ☐ Toe of deep-seated landslide with slopes ≥ 65%
   - ☐ Category E - see instructions and describe below (i.e.: Active deep-seated landslides and others)
   - ☐ Other, describe:

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

3. a. Are you conducting forest practices activities around potentially unstable slopes or landforms?
   - ☒ Inner Gorge  ☐ Groundwater recharge areas for glacial deep-seated landslides
   - ☐ Bedrock Hollow  ☐ Convergent Headwall  ☐ Outer edges of meander bends
   - ☐ Toe of deep-seated landslide with slopes ≥ 65%
   - ☐ Category E - see instructions and describe below (i.e.: Active deep-seated landslides and others)
   - ☐ Other, describe:

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

December 2019 – Appendix D: Slope Stability Informational Form
4. a. Were any features identified in Question 3.a. excluded from your forest practices activity?
   ☑ No, go to Question 5. ☐ Yes, continue to Question 4.b.

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

5. Are there areas of public use located in or around the area of your proposed forest practices activity?
   ☑ No, go to Question 6  ☐ Yes, check all that apply and show locations on the map in Question 7.
   ☐ Public Road(s)  ☐ Utilities  ☐ Designated Recreation Area(s)  ☐ Occupied Structure(s)
   ☐ Other, describe:

6. Complete the table below with date(s) and person(s) that conducted field review(s):

<table>
<thead>
<tr>
<th>Date</th>
<th>Name</th>
<th>Title/Position</th>
</tr>
</thead>
<tbody>
<tr>
<td>07/29/2020</td>
<td>Wes Worden</td>
<td>Forest Engineering Specialist</td>
</tr>
</tbody>
</table>

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

   This map is intended to be developed by the field practitioner. This can be a forest practices activity map, harvest map, or G: S map – See instructions for example map.
StreamStats Report

Region ID: WA
Workspace ID: WA20200730210839008000
Clicked Point (Latitude, Longitude): 47.81149, -121.67727
Time: 2020-07-30 14:08:56 -0700

Basin Characteristics

<table>
<thead>
<tr>
<th>Parameter Code</th>
<th>Parameter Description</th>
<th>Value</th>
<th>Unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>DRNAREA</td>
<td>Area that drains to a point on a stream</td>
<td>0.11</td>
<td>square miles</td>
</tr>
<tr>
<td>PRECPRIS10</td>
<td>Basin average mean annual precipitation for 1981 to 2010 from PRISM</td>
<td>125</td>
<td>inches</td>
</tr>
</tbody>
</table>

Peak-Flow Statistics Parameters [Peak Region 3 2016 5118]
### Parameter Code and Parameter Name

<table>
<thead>
<tr>
<th>Parameter Code</th>
<th>Parameter Name</th>
<th>Value</th>
<th>Units</th>
<th>Min Limit</th>
<th>Max Limit</th>
</tr>
</thead>
<tbody>
<tr>
<td>DRNAREA</td>
<td>Drainage Area</td>
<td>0.11</td>
<td>square miles</td>
<td>0.08</td>
<td>2610</td>
</tr>
<tr>
<td>PRECPRIS10</td>
<td>Mean Annual Precip PRISM 1981 - 2010</td>
<td>125</td>
<td>inches</td>
<td>33.2</td>
<td>168</td>
</tr>
</tbody>
</table>

### Peak-Flow Statistics Flow Report

**PII:** Prediction Interval-Lower, **Plu:** Prediction Interval-Upper, **SEp:** Standard Error of Prediction, **SE:** Standard Error (other -- see report)

<table>
<thead>
<tr>
<th>Statistic</th>
<th>Value</th>
<th>Unit</th>
<th>PII</th>
<th>Plu</th>
<th>SEp</th>
</tr>
</thead>
<tbody>
<tr>
<td>2 Year Peak Flood</td>
<td>18.9</td>
<td>ft³/s</td>
<td>9.34</td>
<td>38.2</td>
<td>43.2</td>
</tr>
<tr>
<td>5 Year Peak Flood</td>
<td>28.8</td>
<td>ft³/s</td>
<td>13.9</td>
<td>59.5</td>
<td>44.4</td>
</tr>
<tr>
<td>10 Year Peak Flood</td>
<td>35</td>
<td>ft³/s</td>
<td>16.7</td>
<td>73.3</td>
<td>45.6</td>
</tr>
<tr>
<td>25 Year Peak Flood</td>
<td>42.5</td>
<td>ft³/s</td>
<td>19.4</td>
<td>93</td>
<td>48.1</td>
</tr>
<tr>
<td>50 Year Peak Flood</td>
<td>47.7</td>
<td>ft³/s</td>
<td>21.1</td>
<td>108</td>
<td>50.5</td>
</tr>
<tr>
<td>100 Year Peak Flood</td>
<td>53.3</td>
<td>ft³/s</td>
<td>23.1</td>
<td>123</td>
<td>51.8</td>
</tr>
<tr>
<td>200 Year Peak Flood</td>
<td>58.7</td>
<td>ft³/s</td>
<td>24.5</td>
<td>141</td>
<td>54.2</td>
</tr>
<tr>
<td>500 Year Peak Flood</td>
<td>66</td>
<td>ft³/s</td>
<td>26.3</td>
<td>166</td>
<td>57.7</td>
</tr>
</tbody>
</table>

### Peak-Flow Statistics Citations


---

**USGS Data Disclaimer:** Unless otherwise stated, all data, metadata and related materials are considered to satisfy the quality standards relative to the purpose for which the data were collected. Although these data and associated metadata have been reviewed for accuracy and completeness and approved for release by the U.S. Geological Survey (USGS), no warranty expressed or implied is made regarding the display or utility of the data for other purposes, nor on all computer systems, nor shall the act of distribution constitute any such warranty.

**USGS Software Disclaimer:** This software has been approved for release by the U.S. Geological Survey (USGS). Although the software has been subjected to rigorous review, the USGS reserves the right to update the software as needed pursuant to further analysis and review. No warranty, expressed or implied, is made by the USGS or the U.S. Government as to the functionality of the software and related material nor shall the fact of release constitute any such warranty. Furthermore, the software is released on condition that neither the USGS nor the U.S. Government shall be held liable for any damages resulting from its authorized or unauthorized use.
Figure 16: Nomograph for calculating sizes for round corrugated metal culvert pipe on Type N waters.

5.2 Construction BMPs for Culverts and Bridges
Minimizing the number of water crossings in the following locations will reduce road costs and risks to water quality and other public resources:
- In areas requiring steep road approaches.
- Across braided stream channels.
Marbled Murrelet Form
Western Washington Forest Practices Application/Notification

*Complete this form only if you are harvesting timber (including salvage) or constructing roads. Do not complete this form if you have an HCP for marbled murrelets.*

**Answer every question.**

1. **X** No  □ Yes  For this FPA/N, has a protocol survey(s) been completed that includes:
   • Harvest units (and within 300 ft on your ownership), or
   • Salvage units (and within 300 ft on your ownership), or
   • Any area of proposed road construction (and within 300 ft on your ownership)?

   *If 'Yes', fill out the table and check the appropriate findings below.*

<table>
<thead>
<tr>
<th>Survey ID (Name or Unit #)</th>
<th>Township, Range, &amp; Section</th>
<th>Survey was approved by WDFW (Attach approval letter from WDFW)</th>
<th>Survey was disapproved by WDFW and is being resubmitted with this FPA/N (Explain below)</th>
<th>Survey has been submitted to WDFW and survey approval is unknown (Explain below)</th>
<th>Survey is complete but has not yet been submitted to WDFW (Submit survey with FPA/N)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>□ Occupancy □ Presence □ No Detections</td>
<td>□ Occupancy □ Presence □ No Detections</td>
<td>□ Occupancy □ Presence □ No Detections</td>
<td>□ Occupancy □ Presence □ No Detections</td>
</tr>
<tr>
<td></td>
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<td>□ Occupancy □ Presence □ No Detections</td>
<td>□ Occupancy □ Presence □ No Detections</td>
<td>□ Occupancy □ Presence □ No Detections</td>
<td>□ Occupancy □ Presence □ No Detections</td>
</tr>
<tr>
<td></td>
<td></td>
<td>□ Occupancy □ Presence □ No Detections</td>
<td>□ Occupancy □ Presence □ No Detections</td>
<td>□ Occupancy □ Presence □ No Detections</td>
<td>□ Occupancy □ Presence □ No Detections</td>
</tr>
</tbody>
</table>

   **Explanation:**

2. **X** No  □ Yes  □ Unknown  Will you harvest, salvage, or construct roads within 0.25 miles of an occupied site?

3. **X** No  □ Yes  □ Unknown  Will you fly helicopter(s) over or within 0.25 miles of an occupied site?

4. **X** No  □ Yes  Will you harvest live trees in a buffer of an occupied site?

   If Yes, describe the leave trees and buffer widths you will leave. **NOTE:** If you leave less than required in WAC 222-16-060(1) (j) (v) this is a Class IV-Special and an Environmental Checklist is required

   **Description of managed buffers:**

---

Form Q46 (05-14-05)  1 of 2
5. **X No ☐ Yes**  Are there nesting platforms within any harvest unit (including salvage and road construction) that are within 300 feet that:
   - Are not located within a surveyed area, and;
   - Have a minimum of 2 platforms per acre, and;
   - Are located within 7 or more acres of contiguous habitat, and;
   - Have a least 40% (number not volume) of the dominant and co-dominant trees made up of Douglas-fir, western hemlock, western red cedar, or Sitka spruce?

   *If "Yes", complete the table below for those areas.*

<table>
<thead>
<tr>
<th>Name or # (as shown on map) of delineated stands of contiguous habitat</th>
<th>Delineated stand acres</th>
<th>Nesting platforms per acre</th>
<th>Number of trees 32 inches dbh or greater with platforms</th>
<th>Platform Assessment Method</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Field Sampling Method, Sample Plot Method, 100% Cruise Method, Inventory Model Method, or Other</td>
</tr>
</tbody>
</table>

6. **X No ☐ Yes**  Are there areas within this forest practice or within 300 feet that:
   - Are not surveyed, and;
   - Are not listed in question 5, and;
   - Have trees that are at least 32 inches dbh

   *If "Yes", list the forest practice unit numbers from your activity map. Provide brief description of current stand conditions. Such as tree species composition, stand age (if known), and maximum tree size (dbh).*

   Harvest Unit #(s) ___________ ☐ Within the Unit  ☐ Within 300 feet of the Unit

   Description:

   Harvest Unit #(s) ___________ ☐ Within the Unit  ☐ Within 300 feet of the Unit

   Description:

   Harvest Unit #(s) ___________ ☐ Within the Unit  ☐ Within 300 feet of the Unit

   Description:

7. If you answered yes to question 1, 4, or 5, include a map (separate from your map that shows your harvest units and/or road construction) *See the instructions for the information required on each map.*
Forest Practices Application/Notification

Notice of Decision

FPA/N No: 2817620
Effective Date: 8/28/2020
Expiration Date: 8/28/2023
Shut Down Zone: 658
EARR Tax Credit: ☐ Eligible ☒ Non-eligible
Reference: Duffy Trib Culvert Replacement

Decision

☐ Notification Accepted  Operations shall not begin before the effective date.
☒ 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 the FPA/N.

FPA/N Classification

☐ Class I  ☒ Class III  ☐ Class IVG  ☐ Class IVS

Number of Years Granted on Multi-Year Request

☐ 4 years  ☐ 5 years

Conditions on Approval/Reasons for Disapproval


Issued By: Shannon Clark
Title: Roads Specialist
Date: 8/28/2020
Copies to:  ☒ Landowner, Timber Owner and Operator

Issued in person:  ☐ Landowner ☐ Timber Owner ☐ Operator

By: ________________________________

Region: Northwest

April 2020 - Notice of Decision
**Appeal Information**

You have thirty (30) days to **file** (i.e., **actually deliver**) an appeal in writing of this Decision and any related State Environmental Policy Act (SEPA) determinations to the Pollution Control Hearings Board, the Attorney General’s Office, and the Department of Natural Resources’ region office. See RCW 76.09.205. The appeal period starts when the applicant receives this decision, which usually happens electronically on the date indicated below.

You must file your appeal at all three addresses below:

<table>
<thead>
<tr>
<th>Physical Address</th>
<th>Office of the Attorney General Natural Resources Division</th>
<th>Department Of Natural Resources Region</th>
</tr>
</thead>
<tbody>
<tr>
<td>1111 Israel Road, SW Suite 301 Tumwater, WA 98501</td>
<td>Physical Address 1125 Washington Street, SE Olympia, WA 98504</td>
<td>DNR Northwest Region 919 N Township St Sedro-Woolley WA 98284</td>
</tr>
<tr>
<td>Mailing address Post Office Box 40903 Olympia, WA 98504-0903</td>
<td>Mailing Address Post Office Box 40100 Olympia, WA 98504-0100</td>
<td></td>
</tr>
</tbody>
</table>

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

**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 Forestland 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 forestland 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 and 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 forestland obligation, the seller must pay the buyer’s costs related to continuing forestland obligations, including all legal costs and reasonable attorneys’ fees incurred by the buyer in enforcing the continuing forestland obligation against the seller.

Failure by the seller to send the required notice to 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 forestland obligation prior to sale.

**DNR affidavit of mailing:**

On this day **8/28/2020**, 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 #**28176220**

______________________________  ______________________________
(Printed Name)                    (Signature)