Forest Practices Application/Notification
Office Checklist Page 1
Northwest Region

FPA/N #: 2816777
Received Date: 12-31-18
WDFW Concurrence Due Date: 
WDFW Concurrence Review Completed: 
Comments Due Date: 1-14-19
Decision Due Date: 1-30-19
FP Forester: Sky30
Shutdown Zone: 656
RMAP #: 282000102

FPA/N CLASSIFICATION: [ ] II [ ] III [ ] IVG [ ] IVS Biomass [ ] FFFPP [ ] 20-acre exempt [ ]
Landowner Name: DNR
Project Name: Triss Ranger

WRIA: Snihomish
WRIA: 
WRIA: 
Legal Description: 3458-3E, 3327-76, County: Snihomish

Activity Type: Harvest 157.8 ac Spray _______________ ac Road Road Rock Pit _______________ ac Construction _______________ ft Abandonment _______________ ft Spoils _______________ cy

Stream Crossing(s): 11

ALTERNATIVE PRESCRIPTIONS
[ ] Alternate Plan
[ ] Ten-Year Forest Management Plan
[ ] Columbia River Gorge National Scenic Area
[ ] Watershed Analysis: Woods Creek
[ ] 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 Hazard Zonation
[ ] Landslide Inventory Polygon
[ ] Rain-on-Snow and Outside Approved WA
[ ] Hydric Soils
[ ] Wetland Map Forested, M 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
[ ] FHPF 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

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

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

**Project Name:** Texas Ranger #97376

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>Department of Natural Resources</td>
<td>☐ Same as Landowner</td>
<td>☐ Same as Landowner</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Mailing Address:</th>
<th>Mailing Address:</th>
<th>Mailing Address:</th>
</tr>
</thead>
<tbody>
<tr>
<td>919 N. Township St.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Phone: (360) 856-3500</th>
<th>Phone:</th>
<th>Phone:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Email:</td>
<td>Email:</td>
<td>Email:</td>
</tr>
</tbody>
</table>

2. **Contact Person**

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

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

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

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

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

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 is 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.

See Attached HCP

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

<table>
<thead>
<tr>
<th>Section</th>
<th>Township</th>
<th>Range</th>
<th>E/W</th>
<th>Tax Parcel Number</th>
<th>County</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>28</td>
<td>7</td>
<td>E</td>
<td></td>
<td>Snohomish</td>
</tr>
<tr>
<td>4</td>
<td>28</td>
<td>7</td>
<td>E</td>
<td></td>
<td>Snohomish</td>
</tr>
<tr>
<td>5</td>
<td>28</td>
<td>7</td>
<td>E</td>
<td></td>
<td>Snohomish</td>
</tr>
<tr>
<td>8</td>
<td>28</td>
<td>7</td>
<td>E</td>
<td></td>
<td>Snohomish</td>
</tr>
<tr>
<td>33</td>
<td>29</td>
<td>7</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 activity.

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.

See FPA Narrative

9. Do you have a DNR approved Road Maintenance and Abandonment Plan (RMAP)?

a. ☐ No ☐ Yes Enter the RMAP number: R2800010L If yes, continue to b. If no, skip to c.

b. ☐ No ☐ Yes Is this Forest Practices Application/Notification for work that is included in this approved RMAP?

c. ☐ No ☐ Yes Is a Checklist RMAP required (see instructions)?

10. Are there potentially unstable slopes or landforms in or around the area of your forest practices activity?

☐ No ☐ Yes If yes, attach Appendix D. Slope Stability Informational Form and map of areas reviewed for and locations of unstable slopes and landforms found. If applicable, attach a geotechnical letter, memo, or report, Watershed Analysis prescriptions, and/or a SEPA Environmental Checklist.

11. Is this Forest Practices Application/Notification (answer every question):

a. ☐ No ☐ Yes A request for a multi-year permit? If yes, length requested: ☐ 4 years or ☐ 5 years.

Not everyone qualifies for a multi-year permit. See instructions for details.

b. ☐ No ☐ Yes An Alternate Plan? If yes, include a template or detailed plan. See instructions for details.
c. No Yes For a funded Forest Family Fish Passage Program project?

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

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

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

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

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

i. No Yes Within 50 miles of saltwater AND 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.

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

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

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

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

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

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

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

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

14. If installing, replacing, removing, or maintaining structures in or over any typed Water, complete the table below. Provide crossing locations and identifiers on your Activity Map. Provide plan details in Question 28 or attach plan to the FPAN. 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.
15. If conducting any of the following activities in or over typed Water(s), complete the table below. Some activities will require identifiers on the Activity Map and/or more information in Question 28. See instructions.

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

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

<table>
<thead>
<tr>
<th>Road Identifier (name, number)</th>
<th>Road Construction</th>
<th>Road Abandonment</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Length (feet)</td>
<td>Steepest Side-slope (%)</td>
</tr>
<tr>
<td></td>
<td>9,074</td>
<td>50</td>
</tr>
</tbody>
</table>

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

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

See FPA Narrative

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

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

See Aquatics Addendum

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

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

<table>
<thead>
<tr>
<th>Unit Number</th>
<th>Harvest Type (Even-aged, Uneven-aged, Salvage, Right-of-Way)</th>
<th>Biomass Harvest (Y or N)</th>
<th>Harvest Method (rubber tired skidder, tracked skidder, dozer, shovel, full suspension cable, leading end suspension cable, helicopter, cable assist/tethered logging, animal, chipper, forwarder, slash bundler)</th>
<th>Acres to be Harvested</th>
<th>Volume to be Harvested (MB)</th>
<th>Volume to be Harvested (tonnage)</th>
<th>Volume to be Harvested (%)</th>
<th>Steepest Slope in Harvest Unit (%)</th>
</tr>
</thead>
</table>

See FPA Narrative

<p>| | | | | | | | | |</p>
<table>
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<tr>
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<th></th>
</tr>
</thead>
</table>

Total 157.8 3786 --- 95 115/95
20. Reforestation. Check all that apply:

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

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

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

☐ No  Skip to Question 27.

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

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

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

See Aquatics Addendum

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

See Aquatics Addendum
27. How are the following currently marked on the ground? (Flagging color, paint color, road, fence, etc.) Harvest:

Salvage Boundaries: See FPA Narrative
Clumped Wildlife Reserve Trees/Green Recruitment Trees: See FPA Narrative
Right-of-Way Limits/Road Centerlines: See FPA Narrative
Stream Crossing Work: See FPA Narrative
Riparian Management Zone Boundaries and Leave/Take Trees: See FPA Narrative
Channel Migration Zone: See FPA Narrative
Wetland Management Zone Boundaries and Leave/Take Trees: See FPA Narrative

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, document the mitigation measures you will be implementing from a geotechnical memo, letter, or report.

See attached FPA Narrative.
29. We acknowledge the following:

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

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

<table>
<thead>
<tr>
<th>Signature of Legal LANDOWNER</th>
<th>Signature of Legal TIMBER OWNER* (If different than landowner)</th>
<th>Signature of Legal OPERATOR (If different than landowner)</th>
</tr>
</thead>
<tbody>
<tr>
<td>[Signature] Bryant Daughtery</td>
<td>Print Name: [Signature] Bryant Daughtery</td>
<td>Print Name:</td>
</tr>
<tr>
<td>Date: 11/2/2018</td>
<td></td>
<td>Date:</td>
</tr>
<tr>
<td></td>
<td>(If different than landowner)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Print Name:</td>
<td>Print Name:</td>
</tr>
<tr>
<td></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 #8
A DNR archaeologist conducted a field review on July 19, 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 September 14, 2018. No response has been received from the Snoqualmie Indian Tribe or the Tulalip Tribes. The Stillaguamish Tribe of Indians responded on September 14, 2018 with concerns about a possible historic trail near Unit 2. After consultation with a DNR archaeologist it was determined that the trail does not go through the unit. The Stillaguamish Tribes of Indians responded on September 24, 2018 with no further comments on the trail location.
### Question #14:

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 number 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</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, etc., arch, etc.)</th>
<th>Proposed Size (dimensions of structure)</th>
<th>Culvert Design Method (Hydraulic, Stream-sim., etc.)</th>
<th>Channel Bed Width (ft) (F and S only)</th>
<th>Channel Gradient (%) (F and S only)</th>
<th>RMAP Project (Y or N)</th>
<th>FFPPP Project (Y or N)</th>
</tr>
</thead>
<tbody>
<tr>
<td>TL-0300-03+24</td>
<td>4</td>
<td>N/A</td>
<td>N/A</td>
<td>temporary</td>
<td>Culvert</td>
<td>30x32</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>TL-0300-42+28</td>
<td>5</td>
<td>N/A</td>
<td>N/A</td>
<td>temporary</td>
<td>Culvert</td>
<td>30x40</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>TL-0300-45+88</td>
<td>5</td>
<td>N/A</td>
<td>N/A</td>
<td>temporary</td>
<td>Culvert</td>
<td>30x40</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>TL-09-4+40</td>
<td>5</td>
<td>N/A</td>
<td>N/A</td>
<td>removal</td>
<td>Culvert</td>
<td>N/A</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>TL-09-12+80</td>
<td>4</td>
<td>N/A</td>
<td>N/A</td>
<td>removal</td>
<td>Culvert</td>
<td>N/A</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>TL-09-14+60</td>
<td>5</td>
<td>N/A</td>
<td>N/A</td>
<td>removal</td>
<td>Culvert</td>
<td>N/A</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>TL-23-6+30</td>
<td>4</td>
<td>N/A</td>
<td>N/A</td>
<td>removal</td>
<td>Culvert</td>
<td>N/A</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>TL-23-7+70</td>
<td>5</td>
<td>N/A</td>
<td>N/A</td>
<td>removal</td>
<td>Culvert</td>
<td>N/A</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>TL-2302-03+24</td>
<td>5</td>
<td>N/A</td>
<td>N/A</td>
<td>temporary</td>
<td>Culvert</td>
<td>24x36</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>TL-2311-3+80</td>
<td>5</td>
<td>N/A</td>
<td>N/A</td>
<td>removal</td>
<td>Culvert</td>
<td>N/A</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>TL-2311-28+60</td>
<td>5</td>
<td>N/A</td>
<td>N/A</td>
<td>removal</td>
<td>Culvert</td>
<td>N/A</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Question #15:
Further information relating to question 15:

In order to achieve adequate deflection, cables may be suspended over typed waters to reach tail hold trees. If this occurs, no corridors shall be cut in unmanaged RMZ’s. If yarding occurs over type 5 streams, lead end of logs will be suspended over streams. 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.

Question #16:
Any roads to be built then abandoned (also know as temporary road) that are listed in the table for Question #16, 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>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Length (feet)</td>
<td>Steepest Side-slope (%)</td>
</tr>
<tr>
<td>TL-0302</td>
<td>1624</td>
<td>45</td>
</tr>
<tr>
<td>TL-09</td>
<td>2150</td>
<td>30</td>
</tr>
<tr>
<td>TL-0901</td>
<td>526</td>
<td>30</td>
</tr>
<tr>
<td>TL-23</td>
<td>1800</td>
<td>30</td>
</tr>
<tr>
<td>TL-2311</td>
<td>20</td>
<td>3120</td>
</tr>
<tr>
<td>TL-2302</td>
<td>30</td>
<td>1190</td>
</tr>
<tr>
<td>TL-2302-03</td>
<td>1644</td>
<td>30</td>
</tr>
<tr>
<td>TL-2302-0301</td>
<td>544</td>
<td>30</td>
</tr>
<tr>
<td>TL-43</td>
<td>522</td>
<td>20</td>
</tr>
<tr>
<td>TL-45</td>
<td>184</td>
<td>30</td>
</tr>
<tr>
<td>TL-46</td>
<td>80</td>
<td>20</td>
</tr>
</tbody>
</table>
Question #17:
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 or sensitive areas.

<table>
<thead>
<tr>
<th>Spoil Area Identifier (Number, Letter)</th>
<th>Spoils Deposited (Cubic Yards)</th>
<th>Rock Pit Identifier* (Name, Number, Letter)</th>
<th>Acres of New Rock Pit Developed</th>
<th>Acres of Existing Rock Pit Expanded</th>
</tr>
</thead>
<tbody>
<tr>
<td>TL-23 71+30</td>
<td>500</td>
<td>WC-11 Hard Rock Pit</td>
<td>0.1</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>TL-01 Hard Rock Pit</td>
<td>0.1</td>
<td></td>
</tr>
</tbody>
</table>

Question #19:
Ground-based equipment operations will be limited to sustained slopes less than 35%. Self-leveling equipment may be utilized on sustained slopes 50% with the approval of the Contract Administrator. In addition, tethered equipment may be utilized with the approval of 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 (mbf)</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>1</td>
<td>Even-aged/ROW¹</td>
<td>N</td>
<td>Ground/Cable</td>
<td>45.7</td>
<td>972</td>
<td>--</td>
<td>95</td>
<td>95</td>
</tr>
<tr>
<td>2</td>
<td>Even-aged/ROW²</td>
<td>N</td>
<td>Ground/Cable</td>
<td>32.6</td>
<td>1151</td>
<td>--</td>
<td>95</td>
<td>85</td>
</tr>
<tr>
<td>3</td>
<td>Even-aged</td>
<td>N</td>
<td>Ground</td>
<td>56.2</td>
<td>1176</td>
<td>--</td>
<td>95</td>
<td>80</td>
</tr>
<tr>
<td>4</td>
<td>Even-aged</td>
<td>N</td>
<td>Ground</td>
<td>9.4</td>
<td>196</td>
<td>--</td>
<td>95</td>
<td>60</td>
</tr>
<tr>
<td>5</td>
<td>Even-aged</td>
<td>N</td>
<td>Ground</td>
<td>6.4</td>
<td>134</td>
<td>--</td>
<td>95</td>
<td>60</td>
</tr>
<tr>
<td>6</td>
<td>Even-aged/ROW³</td>
<td>N</td>
<td>Ground</td>
<td>7.5</td>
<td>157</td>
<td>--</td>
<td>95</td>
<td>115*</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Totals</td>
<td>157.8</td>
<td>3786</td>
<td>--</td>
<td>115/95*</td>
</tr>
</tbody>
</table>

¹ Includes 0.2 acres ROW. ² Includes 0.6 acres ROW. ³ Includes 0.6 acres ROW.
*115% slope is located in borrow pit, 95% slope is steepest natural slope.
Question #27
How are the following currently marked on the ground?
Harvest/Salvage Boundaries: White "Timber Sale Boundary" tags, pink and green flagging on adjacent young stands, property line (Two Red painted Bands with a Yellow T), pink and green flagging on the TL-2311, TL-23, and TL-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

Question #28:
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, except for those leave trees marked as non-tradeable on the FPA Map.

Additional Q.16 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.
FOREST PRACTICES ACTIVITY MAP

SALE NAME: Texas Ranger
APPLICATION #: TBD by FP Staff
COUNTY(S): Snohomish
TOWNSHIP(S): T28R07E.

All State Unless Otherwise Noted

Prepared By: bdau490
Modification Date: anns490 12/7/2018

2816777
Forest Practices
Informal Conference Note

ICN No. 135579
Legal Subdivision SE 1/4
Section 33
TWP 29
RGE E/W 7E
Application / Notification #
Class

Landowner
Department of Natural Resources – Brent Daugherty

Timber Owner
Same as landowner

Operator

Mailing Address
919 N. Township St.

Mailing Address

Mailing Address

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

City, State /Province), Zip /Postal Code

City, State /Province), Zip /Postal Code

Meeting Location
On site

Telephone
Conference

Date
11/7/2018

Time
0900

Region
NW

Subjects Discussed:
Landowner representatives requested an pre-application review of unit 2 of the 6 unit "Texas Ranger" timber sale. There were several LSI polygons adjacent to the proposed harvest unit that the landowner wished to field confirm were correctly identified and bounded out of the proposed harvest unit.

Decisions Made:
Field review of the proposed harvest unit showed the applicant had bounded out and setback appropriate distances from the RILs identified from the office review.

Josh H. will issue FP Geologist Remote/Field review Report for the site visit also.

PRINT Participants' Names
Bryant Daugherty
John Moon
Gerg Morrow
Josh Hardesty

*SIGNATURES of Participants
Representing
landowner
landowner
landowner
forest practices

Position No. 2975
Signature & Title of DNR Representative Steven Huang, Forest Practice Forester

Date 12/4/2018
Work Phone (360) 770-9806

Copies Mailed

* (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, ECY, DFW, DOR, TULALIP

QQ38
Rev. 11/04

E-MAILED 12/4/18

Page 1 of 1

2816777
**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 effect my proposal.
- [x] I have reviewed the descriptions and maps for all prescriptions. My proposal is located on or adjacent to the following prescription areas:
  - [x] Surface Erosion Prescriptions
  - [x] 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: Basin wide road erosion (P.16)</th>
<th>Implementing Prescription: Yes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Describe harvest techniques proposed</td>
<td></td>
</tr>
<tr>
<td>Describe road techniques proposed</td>
<td>Prescription 1: Pioneering shall not extend more than 500 feet beyond completed construction between October 15 and May 1.</td>
</tr>
<tr>
<td></td>
<td>Prescription 2: All exposed soil areas resulting from road construction will be grass seeded within one month of exposure. A protective cover of straw or some other suitable material will be used if disturbance occurs between July 1 and March 31.</td>
</tr>
<tr>
<td></td>
<td>Prescription 3: Drainage shall be provided on all uncompleted construction as approved by Contract Administrator. All ditch water will be diverted onto forest floor by means of cross drain culverts or ditch outs in order to avoid delivery of sediments to streams.</td>
</tr>
<tr>
<td>Describe other techniques proposed</td>
<td></td>
</tr>
</tbody>
</table>

DNR USE ONLY

Reviewed by: [Signature]

Date: [2-20-19]
**Resource Sensitivity Name/No:** BB-1 Fine sediment input to streams (P.18,20)

**Implementing Prescription:** Yes

<table>
<thead>
<tr>
<th>Describe harvest techniques proposed</th>
<th>No ground-based yarding of any type on high surface erosion potential areas. No skidder yarding will occur with this proposal. All harvesting will be done by cable and/or tracked shovel yarding. All trees will be felled perpendicular to and away from streams. Type 5 stream crossings will incorporate temporary crossing measures to protect stream channel integrity. Harvesting operations will avoid exposing mineral soil within 50 feet of Type 3, 4, and 5 waters. Type 4 streams will be protected with 100 foot buffers, Type 3 streams will be protected with 188-foot site index buffers, and Type 5 streams will be protected with 30-foot equipment limitation zones. These buffers and equipment restrictions will help to prevent any potential surface erosion that might result from ground based harvesting from entering surface waters.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Describe road techniques proposed</td>
<td></td>
</tr>
<tr>
<td>Describe other techniques proposed</td>
<td></td>
</tr>
</tbody>
</table>
Appendix D. Slope Stability Informational Form

Complete and attach this form to your FPA/N if you answered ‘Yes’ to FPA Question 10. Refer to WAC 222-16-050(1)(d) and Forest Practices Board Manual Section 16—Guidelines for Evaluating Potentially Unstable Slopes for definitions and descriptions of potentially unstable slopes or landforms. Instructions for Appendix D. is located in the Forest Practices Application/Notification Instruction document.

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

   1:24,000 and 1:100,000-scale geologic maps, office and field review by State Lands geologist-in-training Greg Morrow.

b. Did any of the features identified during the preliminary screening (1.a.) not exist when you performed a field review? If yes, describe:

   Yes. See the attached LSI Table for descriptions and interpretations of the LSI polygons prepared by the State Lands geologist-in-training.

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

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

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

   2816777

b. What activities may occur around potentially unstable slopes or landforms? Check all that apply:
   - Timber harvest  
   - Road construction  
   - Suspending cables  
   - Yarding  
   - Tailholds
4. a. Were any features identified in question 3.a. excluded from your forest practices activity?
   ☑ No, skip to question 5.  ☑ Yes, continue to question 4.b.

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

   The topographic groundwater recharge area to a relict glacial deep-seated landslide was excluded from the proposed harvest by hanging timber sale boundary tags outside of the area delineated by the State Lands geologist-in-training.
   Inner gorge slopes were excluded by hanging timber sale boundary tags approximately one crown width away from the break in slope of the inner gorge.

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

6. Date(s) of field review(s): 8/21/2018

Person(s) that conducted field review(s):  

<table>
<thead>
<tr>
<th>Name</th>
<th>Title/position</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bryant Daugherty</td>
<td>Forester</td>
</tr>
<tr>
<td>Greg Morrow, GIT</td>
<td>State Lands geologist-in-training</td>
</tr>
</tbody>
</table>

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

This map is intended to be developed by the field practitioner. This can be a forest practices activity map, harvest map, or GIS map – See attached example.
<table>
<thead>
<tr>
<th>LSI identification number (Unique ID)</th>
<th>Unit name (if IN a unit)</th>
<th>Unit name (if AROUND a unit)</th>
<th>Failure description from LSI database&lt;sup&gt;1&lt;/sup&gt;</th>
<th>Delivery to public resource from LSI database (Y/N)?&lt;sup&gt;2&lt;/sup&gt;</th>
<th>Geologist observations of LiDAR topography in area of LSI polygon</th>
<th>Observations from State Lands Geologist-in-Training (GIT) office review and historic aerial imagery</th>
<th>Proposed mitigation</th>
</tr>
</thead>
<tbody>
<tr>
<td>13660</td>
<td>Unit 2</td>
<td>Shallow, sporadic deep-seated. Define.</td>
<td>Probable</td>
<td>Flat bench, inner gorges below</td>
<td>Appears to be a flat bench with hardwoods. Did not observe signs of slope instability on the bench in the photo record. Inner gorges downslope.</td>
<td>Inner gorges and convergent areas are excluded from harvest.</td>
<td></td>
</tr>
<tr>
<td>13667</td>
<td>Unit 1</td>
<td>Shallow, sporadic deep-seated. Define.</td>
<td>Probable</td>
<td>Planar slope</td>
<td>Appears to be a road and landing in the 1978 and 1983 photos. Did not observe signs of slope instability in the photo record. Forester did not observe signs of instability in the field.</td>
<td>None</td>
<td></td>
</tr>
<tr>
<td>13746</td>
<td>Unit 2</td>
<td>Shallow, sporadic deep-seated. Define.</td>
<td>Probable, inner gorges, convergent topography, and relict glacial deep-seated landslide</td>
<td>Polygons visited in field by GIT. Polygon area appeared to be inner gorges and convergent topography, and overlaps a portion of a relict glacial deep-seated landslide. See Slope Stability Informational Form and map.</td>
<td>Relict glacial deep-seated landslide, groundwater recharge area, inner gorges, and convergent areas are excluded from harvest.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>13748</td>
<td>Unit 2</td>
<td>Shallow, sporadic deep-seated. Define.</td>
<td>Probable</td>
<td>Flat bench, inner gorges below</td>
<td>Polygons visited in field by GIT. Polygon area appeared to be smooth, rolling slopes. Did not observe signs of slope instability in the photo record or in the field. Inner gorges and convergent topography downslope. Small gaps in forest canopy observed in 1970 and 1978 photos.</td>
<td>Inner gorges and convergent areas are excluded from harvest.</td>
<td></td>
</tr>
<tr>
<td>LSI identification number (Unique ID)</td>
<td>Unit name (if <strong>IN</strong> a unit)</td>
<td>Failure description from LSI database¹</td>
<td>Delivery to public resource from LSI database (Y/N)?²</td>
<td>Geologist observations of LiDAR topography in area of LSI polygon</td>
<td>Observations from State Lands Geologist-in-Training (GIT) office review and historic aerial imagery</td>
<td>Proposed mitigation</td>
<td></td>
</tr>
<tr>
<td>-------------------------------------</td>
<td>-----------------------------</td>
<td>--------------------------------------</td>
<td>-----------------------------------------------</td>
<td>-------------------------------------------------</td>
<td>----------------------------------------------------------------------------------------------------------------------------------</td>
<td>-------------------</td>
<td></td>
</tr>
<tr>
<td></td>
<td>13749</td>
<td>Shallow, sporadic deep-seated.</td>
<td>Probable</td>
<td>Flat bench, inner gorges below</td>
<td>Area of polygon visited in field by GIT. Polygon area appeared to be a smooth flat bench with hardwoods. Did not observe signs of slope instability on the bench in the photo record or in the field. Inner gorges and convergent topography downslope.</td>
<td>Inner gorges and convergent areas are excluded from harvest.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Unit 2</td>
<td>Deep-seated.</td>
<td></td>
<td>Convergent topography, inner gorges, bench below</td>
<td>Small gaps in forest canopy observed in 1970 and 1978 photos.</td>
<td>Inner gorges and convergent areas are excluded from harvest.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>13751</td>
<td>Shallow, sporadic deep-seated.</td>
<td>Probable</td>
<td>Convergent topography, inner gorges</td>
<td>Small gaps in forest canopy observed in 1978 and 1983 photos.</td>
<td>Inner gorges and convergent areas are excluded from harvest.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Units 5 &amp; 6</td>
<td>Deep-seated.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Unit 1</td>
<td>Shallow-undeveloped.</td>
<td>Yes</td>
<td>Convergent topography, inner gorges</td>
<td>Small gaps in forest canopy observed in 1970 and 1978 photos.</td>
<td>Inner gorges and convergent areas are excluded from harvest.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>13755</td>
<td>Shallow-undeveloped.</td>
<td>No delivery</td>
<td>Planar slope</td>
<td>Shallow swale and logging slash is visible in the photos. Did not observe signs of slope instability in the photo record.</td>
<td>None</td>
<td></td>
</tr>
</tbody>
</table>

Notes:
1) Failure descriptions are based on information included in the LSI database accessed with GIS in October 2018.
2) Sediment delivery was based on information included in the LSI database accessed with GIS in October 2018.
3) LSI polygons that are in and around the proposed harvest units are included on this table.
**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. SUPRLUS (+) OR DEFICIT (-) ACRES AFTER ACTIVITY</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</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).

<table>
<thead>
<tr>
<th>Wetlands Protection, Road Construction within Wetland Buffers:</th>
</tr>
</thead>
<tbody>
<tr>
<td>There is approximately 1,110 feet of road construction within the WMZ of WD and WG. WG is a forested wetland with a 100-foot buffer. WD is a forested wetland with a site index buffer. There is approximately 0.6 acres of wetland buffer lost in wetland WD and approximately 0.4 acres of wetland buffer lost in wetland WG through road construction. There is no loss of wetland function, however approximately 0.6 acres have been added to the WD WMZ and approximately 0.4 acres have been added to WG WMZ as mitigation.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Wetland Management Zones:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wetlands which cover an area greater than 1 acre received site index buffers.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Riparian Management Zones Type 1, 2 and 3 Waters:</th>
</tr>
</thead>
<tbody>
<tr>
<td>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 Q, X, AM, and AR. No wind buffers were applied to any of the stream buffers based on the low susceptibility to wind throw in the area. Low susceptibility was determined by making visual observations of the area. Approximately 120 feet of road construction will occur in the RMZ of Type 3 stream Q.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Riparian Management Zones Type 4 and 5 Waters:</th>
</tr>
</thead>
<tbody>
<tr>
<td>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 as was done for streams AB, E, BA, BE, and BG.</td>
</tr>
</tbody>
</table>

| 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 “forested or open water”</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-3, 2, 1) or N/A</th>
</tr>
</thead>
<tbody>
<tr>
<td>E 5</td>
<td>II</td>
<td>&lt; 2 feet</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>0/30-foot equipment limitation zone.</td>
<td>N/A</td>
</tr>
<tr>
<td>I 5</td>
<td>II</td>
<td>&lt; 2 feet</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>0/30-foot equipment limitation zone.</td>
<td>N/A</td>
</tr>
<tr>
<td>L 5</td>
<td>II</td>
<td>&lt; 2 feet</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>0/30-foot equipment limitation zone.</td>
<td>N/A</td>
</tr>
<tr>
<td>M 3</td>
<td>II</td>
<td>&gt; 2 feet</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>170/188</td>
<td>No</td>
</tr>
<tr>
<td>O 5</td>
<td>II</td>
<td>&lt; 2 feet</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>0/30-foot equipment limitation zone.</td>
<td>N/A</td>
</tr>
<tr>
<td>P 5</td>
<td>II</td>
<td>&lt; 2 feet</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>0/30-foot equipment limitation zone.</td>
<td>N/A</td>
</tr>
<tr>
<td>Q 3</td>
<td>II</td>
<td>&gt; 2 feet</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>170/188</td>
<td>N/A</td>
</tr>
<tr>
<td>U 5</td>
<td>II</td>
<td>&lt; 2 feet</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>0/30-foot equipment limitation zone.</td>
<td>N/A</td>
</tr>
<tr>
<td>V 5</td>
<td>II</td>
<td>&lt; 2 feet</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>0/30-foot equipment limitation zone.</td>
<td>N/A</td>
</tr>
<tr>
<td>X 3</td>
<td>II</td>
<td>&gt; 2 feet</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>170/188</td>
<td>No</td>
</tr>
<tr>
<td>XV 4</td>
<td>II</td>
<td>&gt; 2 feet</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>50/100</td>
<td>N/A</td>
</tr>
<tr>
<td>AA 4</td>
<td>II</td>
<td>&gt; 2 feet</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>50/100</td>
<td>N/A</td>
</tr>
<tr>
<td>AB 4</td>
<td>II</td>
<td>&gt; 2 feet</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>50/100</td>
<td>N/A</td>
</tr>
<tr>
<td>AD 5</td>
<td>II</td>
<td>&lt; 2 feet</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>0/30-foot equipment limitation zone.</td>
<td>N/A</td>
</tr>
<tr>
<td>AE 5</td>
<td>II</td>
<td>&lt; 2 feet</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>0/30-foot equipment limitation zone.</td>
<td>N/A</td>
</tr>
<tr>
<td>AF 5</td>
<td>II</td>
<td>&lt; 2 feet</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>0/30-foot equipment limitation zone.</td>
<td>N/A</td>
</tr>
<tr>
<td>AG 5</td>
<td>II</td>
<td>&lt; 2 feet</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>0/30-foot equipment limitation zone.</td>
<td>N/A</td>
</tr>
<tr>
<td>AH 4</td>
<td>II</td>
<td>&gt; 2 feet</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>50/100</td>
<td>N/A</td>
</tr>
<tr>
<td>AI 5</td>
<td>II</td>
<td>&lt; 2 feet</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>0/30-foot equipment limitation zone.</td>
<td>N/A</td>
</tr>
<tr>
<td>AJ 5</td>
<td>II</td>
<td>&lt; 2 feet</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>0/30-foot equipment limitation zone.</td>
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</tr>
<tr>
<td>AL 5</td>
<td>II</td>
<td>&lt; 2 feet</td>
<td>No</td>
<td>No</td>
<td>No</td>
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<td>N/A</td>
</tr>
<tr>
<td>AM</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>AN</td>
<td>5</td>
<td>II</td>
<td>&lt;2 feet</td>
<td>No</td>
<td>No</td>
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</tr>
<tr>
<td>AO</td>
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<td>II</td>
<td>&lt;2 feet</td>
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</tr>
<tr>
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<td>II</td>
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</tr>
<tr>
<td>AQ</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>AR</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>AW</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>AX</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>BA</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>BE</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>BF</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>BG</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>BI</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>BJ</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>BO</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>BP</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>BS</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>BT</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>BW</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>BX</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>CA</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>CB</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>CC</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>WA</td>
<td>Forested Wetland</td>
<td>II</td>
<td>&gt; ¼ acre but &lt; 1</td>
<td>No</td>
<td>No</td>
<td>50/100</td>
<td>N/A</td>
</tr>
<tr>
<td>WB</td>
<td>Open Water</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>Forested Wetland</td>
<td>II</td>
<td>&gt; ¼ acre but &lt; 1</td>
<td>No</td>
<td>No</td>
<td>0/100</td>
<td>N/A</td>
</tr>
<tr>
<td>WD</td>
<td>Forested Wetland</td>
<td>II</td>
<td>&gt; 1 acre</td>
<td>No</td>
<td>No</td>
<td>0/188</td>
<td>N/A</td>
</tr>
<tr>
<td>WE</td>
<td>Forested Wetland</td>
<td>II</td>
<td>&gt; ¼ acre but &lt; 1</td>
<td>No</td>
<td>No</td>
<td>0/100</td>
<td>N/A</td>
</tr>
<tr>
<td>WG</td>
<td>Forested Wetland</td>
<td>II</td>
<td>&gt; ¼ acre but &lt; 1</td>
<td>No</td>
<td>No</td>
<td>0/100</td>
<td>N/A</td>
</tr>
</tbody>
</table>
DNR Trust Forestland HCP Water Typing Key
ADDITION TO INSTRUCTIONS FOR COMPLETING THE FOREST PRACTICE APPLICATION

STREAM(S) ID: X, Q
DATE 8/28/18

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.
   _____ 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.
   _____ 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.

1-14-08

2816777
DNR Trust Forestland HCP Water Typing Key
ADDENDUM TO INSTRUCTIONS FOR COMPLETING THE FOREST PRACTICE APPLICATION

STREAM(S) ID: CC
DATE _______________________

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.
   _____ 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.
     _____ 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.

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1-14-08

2816777
DNR Trust Forestland HCP Water Typing Key
ADDENDUM TO INSTRUCTIONS FOR COMPLETING THE FOREST PRACTICE APPLICATION

STREAM(S) ID: M, AM, AR, BT
DATE 8/28/18

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.
         ___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___ 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.

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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) ID: AA, AB, AH, AQ, BA, BE, BG, BI, XV
DATE 8/28/18

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: 15’ 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%?
   ___X___ 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.
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1-14-08

2816777
DNR Trust Forestland HCP Water Typing Key
ADDENDUM TO INSTRUCTIONS FOR COMPLETING THE FOREST PRACTICE APPLICATION

DATE ____________________

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.

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   ____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?
   ____Yes. Go to question # 4.
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   ____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:

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1-14-08

2816777
DNR Trust Forestland HCP Water Typing Key
ADDENDUM TO INSTRUCTIONS FOR COMPLETING THE FOREST PRACTICE APPLICATION

STREAM(S) ID: AX
DATE ____________________

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?
   __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.
   ___ No. Go to question # 5.

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   ___ Yes. Go to question # 6.
   ___ No. Type 4 stream.

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   ___ Yes. Type 3 stream.
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1-14-08
Washington Department of Natural Resources
Forest Practices Water Type Modification Form

WTMF Summary

NW-07-18-0028

Comment Due Date: 10/09/2018

<table>
<thead>
<tr>
<th>Reviewer</th>
<th>Concur</th>
<th>Non-Concur</th>
<th>No Decision</th>
<th>No Response</th>
<th>Date</th>
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<tr>
<td>BAILS, JAMIE</td>
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☒ DNR Concur
☐ DNR Non-concur

Justification by HUANG, STEVEN on 10/10/2018

THE PROPOSAL WAS REVIEWED BY AND RECEIVED CONCURRENCE FROM, THE TULALIP TRIBE, WDFW AND DNR.

ICN

NW-ICN-18-135563

Responses

- ACKER, MARTY - US DEPARTMENT OF FISH & WILDLIFE No response
- BAILS, JAMIE - WA DEPARTMENT OF FISH & WILDLIFE Concurred on 09/10/2018
  * WDFW concurs with the WTM.
    - 9/10/2018 4:05:04 PM
- FALLER, HOLLY - SNOHOMISH COUNTY No response
- DNR Forester - HUANG, STEVEN - DNR FOREST PRACTICES Concurred on 10/10/2018
- MARKS, DEREK - TULALIP TRIBES Concurred on 10/08/2018
- PENHALE, BOB - WA DEPARTMENT OF ECOLOGY No response
- SHEA, NEIL - TULALIP TRIBES No response
- DNR Forester - TROBERG, KIRK - DNR FOREST PRACTICES Concurred on 10/10/2018
WATER TYPE MODIFICATION FORM
(For changes to the Water Type Map)

<table>
<thead>
<tr>
<th>Proponent Name and Organization</th>
<th>Proponent/Organization Address</th>
<th>Telephone Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bryant Daugherty</td>
<td>Department of Natural Resources 919 N. Township St. Sedro-Woolley, W</td>
<td>(360) 856-3500</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Email Address</td>
</tr>
<tr>
<td></td>
<td></td>
<td><a href="mailto:bryant.daugherty@dnr.wa.gov">bryant.daugherty@dnr.wa.gov</a></td>
</tr>
</tbody>
</table>

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<thead>
<tr>
<th>Surveyor Name(s) and Organization</th>
<th>Surveyor/Organization Address</th>
<th>Telephone Number</th>
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<tbody>
<tr>
<td>Lisa Egvedt</td>
<td>Same as above</td>
<td>(360) 856-3500</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Email Address</td>
</tr>
<tr>
<td></td>
<td></td>
<td><a href="mailto:lisa.egvedt@dnr.wa.gov">lisa.egvedt@dnr.wa.gov</a></td>
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<tr>
<th>Landowner Name</th>
<th>Landowner Address</th>
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<tbody>
<tr>
<td>Department of Natural Resources</td>
<td>Same as above</td>
<td>(360) 856-3500</td>
</tr>
<tr>
<td></td>
<td>Email Address</td>
<td></td>
</tr>
<tr>
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</tbody>
</table>

Landowner Notified: ☒ Yes ☐ No

Check Applicable Boxes:
☒ Adding Typed Waters ☐ Removing Typed Waters ☐ Changing Location of Typed Waters
☐ Other; Describe: ____________________________

<table>
<thead>
<tr>
<th>(1) Water Segment ID</th>
<th>(2) Name of Water</th>
<th>(3) Tributary To</th>
<th>(4) Legal Description</th>
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<tbody>
<tr>
<td>X</td>
<td>Unnamed</td>
<td>West Fork Woods Creek</td>
<td></td>
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<tr>
<td></td>
<td></td>
<td>Section 5, Township 28 North, Range 7 E</td>
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<table>
<thead>
<tr>
<th>(5) County</th>
<th>(6) Water Type Shown on Map</th>
<th>(7) Proposed Water Type</th>
<th>(8) Date(s) of Field Assessment</th>
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<tr>
<td>Snohomish</td>
<td>Type N</td>
<td>Type F</td>
<td>April 20, 2018</td>
</tr>
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</table>

(9a) Forest Practices Application ☒ Yes ☐ No

<table>
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<tr>
<th>(9b) Enforcement Document Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>☒ Yes Number: No</td>
</tr>
</tbody>
</table>

(10) Change is based on the following (check all that apply):

☒ Water type does not meet WAC 222-16-031 definition. Describe: ____________________________

Survey Method:
☒ Electrofishing Protocol Survey (attach survey information)
☒ ID Team (attach Informal Conference Note)
☐ Visual Observation
☐ Random Measurements
☐ Incremental Measurements
☐ Physical Characteristics

Fish Found: ☒ Yes ☐ No

☐ Channel is a Public Water Diversion
☐ Channel is a Fish Hatchery Diversion

List Species (if known): Cutthroat trout
Distance from Diversion: ~ 80 feet
Water Right Reference Number: ____________________________
Hatchery Name: ____________________________
Distance from Hatchery: ____________________________

Version 03/01/2018

2816777
(11) Water Levels in the Survey Area were: ☐ Above Normal ☒ Normal ☐ Below Normal

Was there a drought warning issued by DNR? ☐ Yes ☒ No
If yes, describe how stream flows and fish use determinations were unaffected by drought conditions (attach pictures and other relevant information).

(12) Channel Characteristics (Use Segment Tally Sheet for multiple stream segments)
Number of Bankfull Width Measurements 18 Average Bankfull Width 2.4 Average Gradient 13
Average Wetted Width N/A Number of Protocol Pools 1
Ponds and Impoundments > 0.5 acre ☐ Yes ☒ No

(13) Water Type Break was determined by (check all that apply; use Segment Tally Sheet for multiple stream segments):

☐ Electrofishing Protocol Survey (attach survey information)
   Last Fish detected: show on map
☐ F/N Type Break: show on map
☐ End of Harvest or Property Boundary
☐ Uppermost Point of Perennial Flow (describe in Block 16)
☐ Last Fish Observed
☐ Upper Extent of Fish Habitat
☒ Physical Characteristics
☐ Other: __________________________

Provide a description of water type break, and how it was marked in the field:
Slope abruptly changes to 16-20%, continuing uphill at an average of around 18%.

Do Type F physical characteristics occur above surveyed segment? ☐ Yes ☒ No

(14) Are there any fish passage barriers downstream of the surveyed stream segment(s)?
☒ No. Continue to Block 15. ☐ Unable to Access ☐ Yes

☐ Natural Barrier
   Type: Falls ☐ Cascades ☐ Bedrock Chutes ☐ Other: __________________
   Length: __________ Height: __________ Width: __________ Gradient: __________

☐ Temporary Barrier Describe: __________________________
☐ Manmade Barrier Describe: __________________________
Fish Observed Above the Barrier? ☐ Yes ☐ No
Fish Passage Barriers were identified by: ☐ Maps; specify: __________________________
☐ Field Observations
Describe Location of Barrier(s) Downstream: __________________________

(15) Is there evidence of recent mass wasting (filling in the stream channel) or scouring events?
☒ No ☐ Yes; estimate when the event occurred: __________
Describe how this affected current stream channel conditions and fish distribution in the stream:

(16) Provide any additional clarifying information and list attachments (survey cards, photos of type break, field notes, expert report, stationing, etc).
Please see attached Electrofishing Protocol Survey Report Unnamed Tributary to West Fork Woods Creek dated August 31, 2018. Also attached is ICN 135563.
Figure 1. Proposed stream type for Stream X, a tributary to West Fork Woods Creek.
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>
<th>Application / Notification #</th>
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Landowner
Department of Natural Resources – Bryant Daugherty

Mailing Address
919 N. Township St.

City, State (Province), Zip/Postal Code
Szosro-Woolery, WA 98284

Meeting Location
N/A - on site by self

Telephone
Conference

Date
4/13/18

Time
1300

Region
NW

Subjects Discussed:
Landowner representatives requested a pre-application review of the proposed 6 unit “Texas Ranger” timber sale. A site visit was held on April 13, 2018 to determine the water type of two streams within the proposed timber sale.

Unit 1 - there is a stream that is approximately 2,300-ft long and originates from the hill sides. Most of the stream is below 100% slope except for a steeper segment averaging around 30% for about 400 feet. However, above the steeper segment there is potential for perched habitat that goes for about 500-600 feet until it reaches the hillside. Downstream of the steeper segment, the stream flows uninterrupted for about 500-ft before hitting a sandy patch and disappearing. There is no evidence of a channel downstream of the area.

Unit 3, 5, and 6 - Between unit 5 and unit 6, there is a stream that is approximately 2000-ft long and meets the physicals of a type 3 stream. There is an old mod form (NW 07080200, Stream E on mod form) from about 10 years ago for this stream in which the stream was shocked and found no fish and calling it a type 4. Applicant wanted to know if the mod form is still relevant for this sale? A man made fish blockage barrier had been removed just down stream of the gradient barrier that the mod form used as FIN type break out in the field.

The stream was shocked on April 20, 2018 and fish were found past the natural gradient barrier. The stream segment maintains type 3 characteristics up to an area where three other streams merge into the main channel.

Decisions Made:
Unit 1 – the group agreed the stream went subsurface and is not connected to live waters. Stream is typed as type 4 stream.

Unit 2 – the group agreed that because the man made barrier had been removed, the stream should be surveyed again to ensure the natural barrier call was still correct. With the discovery of fish presence in the stream segment up stream of the gradient type break, the stream will be treated as type 3 stream for this proposed timber sale.

<table>
<thead>
<tr>
<th>PRINT Participants' Names</th>
<th>*SIGNATURES of Participants</th>
<th>Representing</th>
<th>Copies Mailed</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bryant Daugherty</td>
<td></td>
<td>landowner*</td>
<td></td>
</tr>
<tr>
<td>John Moon</td>
<td></td>
<td>landowner*</td>
<td></td>
</tr>
<tr>
<td>Lisa Egvedt</td>
<td></td>
<td>landowner*</td>
<td></td>
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<tr>
<td>Derek Marks</td>
<td></td>
<td>Tulalip Tribe</td>
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<tr>
<td>Joel Shea</td>
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<tr>
<td>Jamie Balls</td>
<td></td>
<td>WDFW</td>
<td></td>
</tr>
</tbody>
</table>

Position No.
2925

Signature 6 Title of ODN Representative
Stevie Huang
Skokomish Forest Practice Forester

Date
9/20/18

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, FPOD, FPCOORD, SKY30

☐ Timber Owner  ☐ Landowner  ☒ Others: SNOCD, ECY, DFW, DOR, TULALIP
Electrofishing Protocol Survey Report
Unnamed Tributary to West Fork Woods Creek
August 31, 2018

Background

The stream of interest (hereafter referred to as "Stream X") was previously mapped in the Washington Forest Practices water type database as a type N stream based on a protocol survey conducted on June 26, 2008 by Forest & Channel Metrics, Inc. During recent field reconnaissance for the proposed Texas Ranger timber sale, DNR presales forester Bryant Daugherty measured physical stream channel characteristics for the stream (see Appendix A for stream profile data) and requested consultation based on physical characteristics of a fish-bearing stream. This was also in consideration of the fact that a manmade fish blockage (culvert) had been replaced with a fish-passable culvert since the previous survey was conducted.

An on-site pre-application review was held on April 13, 2018, which included Jamie Bails of Washington Dept. of Fish and Wildlife; Derek Marks and Neil Shea of the Tulalip Tribes; Steve Huang of Northwest Region Forest Practices; John Moon, Boulder Unit Forester; Bryant Daugherty, Boulder Presales Forester; and Lisa Egjvedt, Northwest Region Wildlife Biologist. During this meeting, it was determined that, because the manmade barrier had been replaced with a fish-passable structure, the stream should be surveyed again.

This stream originates in the northeast quarter of Section 5, Township 28 North, Range 07 East, approximately 725 feet (of stream length) from the point of last measurement, and approximately 555 feet (as the crow flies) from the nearest timber sale unit boundary (Unit 6B). It flows in a west-southwesterly and then generally southwesterly direction until it converges with West Fork Woods Creek, approximately 5,380 feet from its origin point.

The average width of this stream is 2.4 feet, and the average slope is approximately 13%. Defined pools are rare along this stream segment. The new proposed F/N break is located where the slope abruptly changes to 16-20%, continuing uphill at an average of around 18%. In addition to this consistent gradient barrier, there are a number of small 1-3 foot drops along this stream segment.

Chinook, chum, coho, and pink salmon, as well as cutthroat and steelhead trout, have all been documented or modeled within West Fork Woods Creek. Neither the WDFW Fish Distribution nor WDFW Salmonid Stock Inventory layers show species-specific fish distributions in Stream X. However, a quick check of the stream below the culvert found a ~seven-inch cutthroat trout, establishing the stream below the culvert as a fish-bearing stream prior to conducting the protocol survey above the fish-passable culvert and location that was previously presumed to be a natural barrier.

This report is intended to provide supporting documentation for a forest practice application that will be submitted for the proposed Texas Ranger timber sale, which is being developed by DNR’s state lands timber sale program. This proposal has three units/subunits that are located in the vicinity of the area sampled. The subject stream and units are located on DNR land, in Section 5 of Township 28 North, Range 7 East.
Figure 1. Proposed stream type for Stream X, a tributary to West Fork Woods Creek.
Electrofishing Survey

The electrofishing survey was conducted by DNR Fish & Wildlife Biologist L. Egtvedt on April 20, with assistance from Brynt Daugherty. Electrofishing was conducted by Egtvedt, while Daugherty recorded significant changes in stream characteristics and took photographs.

Electrofishing began at 1016 just above the boulder-cobble cascade that was previously mapped as a natural gradient barrier (per the 2008 survey mentioned above). Electrofishing occurred for approximately 80 feet of stream length, and a total of 89 seconds of electrofishing effort, until a fish (~four-inch cutthroat trout) was found. It took 33 minutes to accomplish this due to heavy brush and downed wood in the stream corridor. Electrofishing was not continued further upstream due to the lack of any potential natural barriers (indicated by previous stream measurements) until much further upstream, where there is a marked increase in stream gradient (14-16%, up to 20-25%). Since this potential gradient barrier is located between units, at a location that would not affect riparian buffer widths, there was no justification to continue electrofishing that far upstream. See Figure 2 for a photo of the boulder-cobble cascade that was previously presumed to be a gradient barrier, and Figures 3 and 4 for photos of the location where the fish was found, and the fish.

Weather conditions were optimal (i.e. sunny with zero cloud cover) and moderate stream flow and water clarity provided excellent visibility, as long as the muddy substrate was not disturbed. Water temperature and conductivity were measured as 7.8°C and 24μS, respectively. A Smith-Root LR-20-B backpack electrofisher was used to conduct the survey with the following settings: 400 volts, 30 Hertz, and 15% duty cycle. Physical stream characteristics data (Appendix A) were collected prior to the survey, with several additional measurements made following the electrofishing result.

This electrofishing survey followed guidelines provided in the DNR interim water typing rules (WAC 222-16-031), Chapter 13 Forest Practices Board Manual, and WDFW protocol survey guidelines (2007). All electrofishing activities were conducted under the authorization of, and in compliance with, the following permits:

- NOAA National Marine Fisheries Service Section 10(a)(1)(A) Research Permit # 19738
- US Fish & Wildlife Service Native Threatened Species Recovery Permit # TE-81239B
- Washington Department of Fish & Wildlife Scientific Collection Permit # Danilson: 17-353
Figure 2. Previous “natural barrier”; e-fishing began above

Figure 3. Location where fish was found

Figure 4. Fish found above “natural barrier”
Appendix A. Physical characteristics of unnamed stream in S5 of T28NR07E

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</tr>
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Water Type Modification Form
(For changes to the Water Type Map)

Check all that apply

- [ ] *Adding streams/lakes
- [ ] *Removing streams/lakes
- [ ] *Changing location of streams/lakes
- [ ] Changing water type based on physical characteristics
- [X] Changing water type based on protocol survey
- [ ] Other. Describe

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1. *Water Reference Id A

2. Name of Water
   - West Fork Woods Creek

3. Tributary To
   - Map

4. *Legal Description (Section, Township, Range, E/W)
   - Sec. 5, T28N, R7E

5. *County
   - Snohomish

6. Water Type Shown on Map
   - N, 4

7. Proposed Water Type
   - F, 3

8. *Date of Field Visit
   - June 26, 2008

9. *Forest Practices Application Number(s) (if applicable)

10. Change is based on the following (check all that apply).
- [X] Fish found
- [ ] Public water diversion
- [ ] Fish hatchery diversion
- [ ] Physical characteristics
- [ ] Water feature exists, but does not meet WAC 222-16-031 definition.

See Additional Block Text for Water Reference Id A on attached sheet.

11. Water levels in the survey area were:
- [ ] Above Normal
- [X] Normal
- [ ] Below Normal

   Description:
   Based on stream flow predictions developed by the United States Dept. of Agriculture, Natural Resources Conservation Service, the Washington Dept. of Natural Resources determined that stream flows would be "normal" during the 2008 survey season. Field estimates of discharge were taken for surveyed channel segments. Flow conditions encountered during the survey were within the normal range.

12. The water type break was determined by:
- [ ] Stopping at last observed fish
- [X] Stopping at upper extent of fish habitat
- [ ] Stopping at end of harvest or property boundary
- [ ] Other — Describe:

See Additional Block Text for Water Reference Id A on attached sheet.

13. Are there any fish passage barriers downstream of the surveyed stream segment(s):
- [ ] Natural barrier
- [ ] Falls
- [ ] Cascades
- [ ] Bedrock chutes
  - If yes, what is the height ______
- [ ] Temporary barriers (log jams)
- [ ] Man-made barriers (culverts)

Fish passage barriers were identified by:
- [ ] Maps
- [ ] Field observation
- [ ] Other — describe:

n/a

14. Is there evidence of mass wasting or scouring events?
- [ ] Yes. Describe how these affected current stream channel conditions and fish distribution in the stream.
- [X] No

*Proponent name and signature

Print Name: Jason Stuart

Surveyor name

Sarah M. Heyne

Telephone number

WA Dept. of Natural Resources
919 North Township
Sedro-Woolley, WA 98284

(360) 856-3500

Forest & Channel Metrics, Inc.
1013A 85th Ave. SE
Olympia, Washington 98501

(360) 753-0485

Form QQ 49 (05/05) revised 05/07, 4/08

1 of 2
Water Type Modification Form  
(For changes to the Water Type Map)

Check all that apply
[X] *Adding streams/lakes
[X] *Removing streams/lakes
[X] *Changing location of streams/lakes
[X] Changing water type based on physical characteristics
[X] Changing water type based on protocol survey

Region Reference Number – DNR Use Only

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<td>West Fork Woods Creek</td>
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3. Tributary To

5. *County

6. Water Type Shown on Map

7. Proposed Water Type

8. *Date of Field Visit

- No fish were detected within this segment, which lies upstream from the proposed type break described for Water Reference ID A.

10. Change is based on the following (check all that apply).

- [X] No fish found
- [ ] Public water diversion
- [ ] Fish hatchery diversion
- [ ] Water feature exists, but does not meet WAC 222-16-031 definition.

11. Water levels in the survey area were:

- [ ] Above Normal
- [X] Normal
- [ ] Below Normal

**Description:**

Based on stream flow predictions developed by the United States Dept. of Agriculture, Natural Resources Conservation Service, the Washington Dept. of Natural Resources determined that stream flows would be "normal" during the 2008 survey season. Field estimates of discharge were taken for surveyed channel segments. Flow conditions encountered during the survey were within the normal range.

12. The water type break was determined by:

- [X] Stopping at upper extent of fish habitat
- [ ] Stopping at last observed fish
- [ ] Stopping at end of harvest or property boundary
- [ ] Other – Describe:

**Segment lies upstream from the type break proposed for Water Reference ID A, see Additional Block Text on attached sheet.**

13. Are there any fish passage barriers downstream of the surveyed stream segment(s):

- [ ] Natural barriers: [ ] Falls [ ] Cascades [ ] Bedrock chutes  If yes, what is the height _____
- [ ] Temporary barriers (log jams)
- [ ] Man-made barriers (culverts)

**Fish passage barriers were identified by:**

- [ ] Maps
- [ ] Field observation
- [ ] Other – describe:

**n/a**

14. Is there evidence of mass wasting or scouring events?

- [X] No. Describe how these affected current stream channel conditions and fish distribution in the stream.
- [ ] Yes.

**Proponent name and signature**

- Print Name: Jason Stuart

**Organization name and address**

- WA Dept. of Natural Resources
- 919 North Township
- Sedro-Woolley, WA 98284
- Telephone number (360) 856-3500

**Surveyor name**

- Sarah M. Heyne

**Organization name and address**

- Forest & Channel Metrics, Inc.
- 1013A 85th Ave. SE
- Olympia, Washington 98501
- Telephone number (360) 753-0485

Form Q49 (05/05) revised 05/07, 4/08 1 of 2
# Water Type Modification Form

(For changes to the Water Type Map)

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<th>9. *Forest Practices Application Number(s) (if applicable)</th>
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<th>10. Change is based on the following (check all that apply)</th>
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<tr>
<td>[ ] Fish found</td>
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<tr>
<td>[X] No fish found</td>
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<td>[ ] Physical characteristics</td>
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See Additional Block Text for Water Reference ID C on attached sheet.

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Description:
Based on stream flow predictions developed by the United States Dept. of Agriculture, Natural Resources Conservation Service, the Washington Dept. of Natural Resources determined that stream flows would be “normal” during the 2008 survey season. Field estimates of discharge were taken for surveyed channel segments. Flow conditions encountered during the survey were within the normal range.

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<tr>
<td>[ ] Stopping at end of harvest or property boundary</td>
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<td>[ ] Other – Describe</td>
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See Additional Block Text for Water Reference ID C on attached sheet.

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<td>[ ] Natural barriers: [ ] Falls [ ] Cascades [ ] Bedrock chutes</td>
</tr>
<tr>
<td>[ ] Temporary barriers (log jams)</td>
</tr>
<tr>
<td>[ ] Man-made barriers (culverts)</td>
</tr>
</tbody>
</table>

Fish passage barriers were identified by: [ ] Maps [ ] Field observation [ ] Other – describe:

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<th>14. Is there evidence of mass wasting or scouring events? [ ] Yes. Describe how these affected current stream channel conditions and fish distribution in the stream.</th>
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<tr>
<td>[X] No</td>
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<tr>
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<tr>
<td>Print Name: Jason Stuart</td>
</tr>
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<tr>
<th>SURVEYOR NAME</th>
<th>ORGANIZATION NAME AND ADDRESS</th>
<th>TELEPHONE NUMBER</th>
</tr>
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<tbody>
<tr>
<td>Sarah M. Heyne</td>
<td>Forest &amp; Channel Metrics, Inc. 1013A 85th Ave. SE Olympia, Washington 98501</td>
<td>(360) 753-0485</td>
</tr>
</tbody>
</table>

Form Q49 (05/05) revised 05/07, 4/08 1 of 2
**Water Type Modification Form**

(For changes to the Water Type Map)

Check all that apply

- Adding streams/lakes
- Removing streams/lakes
- Changing location of streams/lakes
- Changing water type based on physical characteristics
- Changing water type based on protocol survey
- Other. Describe: Verifying current "N. 4" water type

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1. Water Reference Id

2. Name of Water

3. Tributary To

4. Legal Description (Section, Township, Range, E/W)

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5. County

6. Water Type Shown on Map

7. Proposed Water Type

8. Date of Field Visit

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9. Forest Practices Application Number(s) (if applicable)

10. Change is based on the following (check all that apply).

- Fish found
- Public water diversion
- No fish found
- Fish hatchery diversion
- Physical characteristics
- Water feature exists, but does not meet WAC 222-16-031 definition.

No fish were detected within this segment, which lies upstream from the proposed type break described for Water Reference ID C.

11. Water levels in the survey area were:

- [ ] Above Normal
- [x] Normal
- [ ] Below Normal

Description:

Based on stream flow predictions developed by the United States Dept. of Agriculture, Natural Resources Conservation Service, the Washington Dept. of Natural Resources determined that stream flows would be "normal" during the 2006 survey season. Field estimates of discharge were taken for surveyed channel segments. Flow conditions encountered during the survey were within the normal range.

12. The water type break was determined by:

- [ ] Stopping at last observed fish
- [x] Stopping at upper extent of fish habitat
- [ ] Stopping at end of harvest or property boundary
- [ ] Other – Describe:

Segment lies upstream from the type break proposed for Water Reference ID C, see Additional Block Text on attached sheet.

13. Are there any fish passage barriers downstream of the surveyed stream segment(s):

- [ ] Natural barriers: [ ] Falls [ ] Cascades [ ] Bedrock chutes
- [ ] Temporary barriers (log jams)
- [ ] Man-made barriers (culverts)

Fish passage barriers were identified by: [ ] Maps [ ] Field observation [ ] Other – describe:

n/a

14. Is there evidence of mass wasting or scouring events?

- [ ] Yes. Describe how these affected current stream channel conditions and fish distribution in the stream.
- [x] No

**Proprietor name and signature**

Print Name: Jason Stuart

Organization name and address:

WA Dept. of Natural Resources
919 North Township
Sedro-Woolley, WA 98284

Telephone number: (360) 856-3500

Surveyor name:

Sarah M. Heyne

Organization name and address:

Forest & Channel Metrics, Inc.
1013A 85th Ave. SE
Olympia, Washington 98501

Telephone number: (360) 753-0485

Form QQ 49 (05/05) revised 05/07, 4/08

2816777
Water Type Modification Form
(For changes to the Water Type Map)

Check all that apply

[X] *Adding streams/lakes
[ ] *Removing streams/lakes
[ ] *Changing location of streams/lakes
[ ] Changing water type based on physical characteristics
[ ] Changing water type based on protocol survey
[ ] Other. Describe______________________________

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Sec. 5 T28N R7E

1. *Water Reference Id

2. Name of Water

3. Tributary To

4. *Legal Description (Section, Township, Range, E/W)

5. *County Snohomish

6. Water Type Shown on Map

7. Proposed Water Type N, 4

8. *Date of Field Visit June 26, 2008

9. *Forest Practices Application Number(s) (if applicable)

10. Change is based on the following (check all that apply).

[ ] Fish found
[X] No fish found
[ ] Public water diversion
[ ] Fish hatchery diversion
[ ] Physical characteristics
[ ] Water feature exists, but does not meet WAC 222-16-031 definition.

No fish were detected within this segment, which lies upstream from the proposed type break described for Water Reference ID C.

11. Water levels in the survey area were:

[ ] Above Normal
[X] Normal
[ ] Below Normal

Description:
Based on stream flow predictions developed by the United States Dept. of Agriculture, Natural Resources Conservation Service, the Washington Dept. of Natural Resources determined that stream flows would be "normal" during the 2008 survey season. Field estimates of discharge were taken for surveyed channel segments. Flow conditions encountered during the survey were within the normal range.

12. The water type break was determined by:

[ ] Stopping at last observed fish
[X] Stopping at upper extent of fish habitat
[ ] Stopping at end of harvest or property boundary
[ ] Other – Describe:

Segment lies upstream from the type break proposed for Water Reference ID C, see Additional Block Text on attached sheet.

13. Are there any fish passage barriers downstream of the surveyed stream segment(s):

[ ] Natural barriers: [ ] Falls [ ] Cascades [ ] Bedrock chutes If yes, what is the height _____
[ ] Temporary barriers (log jams)
[ ] Man-made barriers (culverts)

Fish passage barriers were identified by: [ ] Maps [ ] Field observation [ ] Other – describe:

14. Is there evidence of mass wasting or scouring events?

[ ] Yes. Describe how these affected current stream channel conditions and fish distribution in the stream.
[X] No

*Proponent name and signature

Print Name: Jason Stuart

Organization name and address
WA Dept. of Natural Resources
919 North Township
Sedro-Woolley, WA 98284

Telephone number
(360) 856-3500

Surveyor name

Sarah M. Heyne

Organization name and address
Forest & Channel Metrics, Inc.
1013A 85th Ave. SE
Olympia, Washington 98501

Telephone number
(360) 753-0485

Form QQ 49 (05/05) revised 05/07, 4/08
1 of 2
# Water Type Modification Form

**For changes to the Water Type Map**

Check all that apply:

- [ ] *Adding streams/lakes
- [ ] *Removing streams/lakes
- [ ] *Changing location of streams/lakes
- [ ] Changing water type based on physical characteristics
- [ ] Changing water type based on protocol survey
- [ ] Other. Describe

### Region Reference Number – DNR Use Only

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1. *Water Reference Id

2. Name of Water

3. Tributary To

4. *Legal Description (Section, Township, Range, E/W)

   Sec. 5  T28N  R7E

5. *County

   Snohomish

6. Water Type Shown on Map

7. Proposed Water Type

   F, 3

8. *Date of Field Visit

   June 28, 2008

9. *Forest Practices Application Number(s) (if applicable)

10. Change is based on the following (check all that apply):

- [ ] Fish found
- [ ] Public water diversion
- [ ] No fish found
- [ ] Fish hatchery diversion
- [ ] Physical characteristics
- [ ] Water feature exists, but does not meet WAC 222-16-031 definition.

See Additional Block Text for Water Reference ID G on attached sheet.

11. Water levels in the survey area were:

- [ ] Above Normal
- [ ] Normal
- [ ] Below Normal

Description:

Based on stream flow predictions developed by the United States Dept. of Agriculture, Natural Resources Conservation Service, the Washington Dept. of Natural Resources determined that stream flows would be "normal" during the 2008 survey season. Field estimates of discharge were taken for surveyed channel segments. Flow conditions encountered during the survey were within the normal range.

12. The water type break was determined by:

- [ ] Stopping at last observed fish
- [ ] Stopping at upper extent of fish habitat
- [ ] Stopping at end of harvest or property boundary
- [ ] Other – Describe:

See Additional Block Text for Water Reference ID G on attached sheet.

13. Are there any fish passage barriers downstream of the surveyed stream segment(s):

- [ ] Natural barriers
- [ ] Falls
- [ ] Cascades
- [ ] Bedrock chutes

If yes, what is the height ______

- [ ] Temporary barriers (log jams)
- [ ] Man-made barriers (culverts)

Fish passage barriers were identified by:

- [ ] Maps
- [ ] Field observation
- [ ] Other – describe:

n/a

14. Is there evidence of mass wasting or scouring events?

- [ ] Yes. Describe how these affected current stream channel conditions and fish distribution in the stream.
- [ ] No

---

*PropONENT name and signature*

**Print Name:** Jason Stuart

**Organization name and address:**

WA Dept. of Natural Resources
919 North Township
Sedro-Woolley, WA 98284

**Telephone number:** (360) 856-3500

---

**Surveyor name:** Sarah M. Heyne

**Organization name and address:**

Forest & Channel Metrics, Inc.
1013A 85th Ave. SE
Olympia, Washington 98501

**Telephone number:** (360) 753-0485

---

Form QQ 49 (05/05) revised 05/07, 4/08
Water Type Modification Form
(For changes to the Water Type Map)

Check all that apply

[X] *Adding streams/lakes
[] *Removing streams/lakes
[] *Changing location of streams/lakes
[] Changing water type based on physical characteristics
[] Changing water type based on protocol survey
[] Other. Describe

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1. *Water Reference Id

2. Name of Water

3. Tributary To

4. *Legal Description (Section, Township, Range, E/W)

Sec. 5 T28N R7E

5. *County

6. Water Type Shown on Map

7. Proposed Water Type

N, 4

8. *Date of Field Visit

June 28, 2008

9. *Forest Practices Application Number(s) (if applicable)

10. Change is based on the following (check all that apply).

[X] Fish found

[] No fish found

[] Fish hatchery diversion

[] Physical characteristics

[] Water feature exists, but does not meet WAC 222-16-031 definition.

Segment lies upstream from the type break proposed for Water Reference ID G.

11. Water levels in the survey area were:

[ ] Above Normal

[X] Normal

[ ] Below Normal

Description:
Based on stream flow predictions developed by the United States Dept. of Agriculture, Natural Resources Conservation Service, the Washington Dept. of Natural Resources determined that stream flows would be “normal” during the 2008 survey season. Field estimates of discharge were taken for surveyed channel segments. Flow conditions encountered during the survey were within the normal range.

12. The water type break was determined by:

[ ] Stopping at last observed fish

[X] Stopping at upper extent of fish habitat

[ ] Stopping at end of harvest or property boundary

[ ] Other – Describe:

Segment lies upstream from the type break proposed for Water Reference ID G, see Additional Block Text on attached sheet.

13. Are there any fish passage barriers downstream of the surveyed stream segment(s):

[ ] Natural barriers: [ ] Falls [ ] Cascades [ ] Bedrock chutes If yes, what is the height ______

[ ] Temporary barriers (log jams)

[ ] Man-made barriers (culverts)

Fish passage barriers were identified by: [ ] Maps

[ ] Field observation

[ ] Other – describe:

n/a

14. Is there evidence of mass wasting or scouring events?

[ ] Yes. Describe how these affected current stream channel conditions and fish distribution in the stream.

[X] No

*Proponent name and signature

Print Name: Jason Stuart

Surveyor name

Sarah M. Heyne

Organization name and address

WA Dept. of Natural Resources
919 North Township
Sedro-Woolley, WA 98284

Telephone number

(360) 856-3500

Organization name and address

Forest & Channel Metrics, Inc.
1013A 85th Ave. SE
Olympia, Washington 98501

Telephone number

(360) 753-0485
Water Type Modification Form
(For changes to the Water Type Map)

Check all that apply
- [ ] *Adding streams/lakes
- [x] *Removing streams/lakes
- [ ] *Changing location of streams/lakes
- [ ] Changing water type based on physical characteristics
- [ ] Changing water type based on protocol survey
- [ ] Other. Describe

Region Reference Number – DNR Use Only

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1. *Water Reference Id

2. Name of Water

3. Tributary To

4. *Legal Description (Section, Township, Range, E/N)

Sec. 5 T28N R7E

5. *County

NWS

6. Water Type Shown on Map

7. Proposed Water Type

8. *Date of Field Visit

June 26, 2008

9. *Forest Practices Application Number(s) (if applicable)

10. Change is based on the following (check all that apply).
- [ ] Fish found
- [ ] No fish found
- [ ] Physical characteristics
- [ ] Public water diversion
- [ ] Fish hatchery diversion
- [ ] Water feature exists, but does not meet WAC 222-16-031 definition

11. Water levels in the survey area were:

[ ] Above Normal
[ ] Normal
[ ] Below Normal

12. The water type break was determined by:
- [ ] Stopping at last observed fish
- [ ] Stopping at upper extent of fish habitat
- [ ] Stopping at end of harvest or property boundary
- [ ] Other – Describe

13. Are there any fish passage barriers downstream of the surveyed stream segment(s):
- [ ] Natural barriers: [ ] Falls [ ] Cascades [ ] Bedrock chutes If yes, what is the height ______
- [ ] Temporary barriers (log jams)
- [ ] Man-made barriers (culverts)

Fish passage barriers were identified by: [ ] Maps [ ] Field observation [ ] Other – describe

14. Is there evidence of mass wasting or scouring events?
- [ ] Yes. Describe how these affected current stream channel conditions and fish distribution in the stream.
- [ ] No

*Proponent name and signature

Print Name: Jason Stuart

Surveyor name

Sarah M. Heyne

Organization name and address

WA Dept. of Natural Resources
919 North Township
Sedro-Woolly, WA 98284

Telephone number

(360) 856-3500

Organization name and address

Forest & Channel Metrics, Inc.
1013A 85th Ave, SE
Olympia, Washington 98501

Telephone number

(360) 753-0485
Additional Block Text

Water Reference ID A: Unnamed tributary to West Fork Woods Creek
Location: Section 5, Township 28N Range 7E
Proposed modification: Change current water type: “N, 4” to “F, 3”

Block 10
An electrofishing survey was conducted on June 26, 2008 on an unnamed tributary of West Fork Woods Creek. The survey followed guidance provided in the Washington Department of Natural Resources interim water typing rules (WAC 222-16-031(3), Chapter 13 Forest Practices Board Manual). The extent of our survey is delineated by the start and end of survey points on the accompanying map. We sampled a total of 2,244 feet of channel, including 48 pools, 6 of which met Forest Practices Board Manual, Section 13, criteria for high quality. Water clarity was good with the streambed visible in the deepest pools. A total of 1,303 seconds of electrofisher operation were expended during this survey. Coastal cutthroat trout were detected within the surveyed reach. The last detected fish was a cutthroat trout 99 mm in length, located at Sta 0+02 during the survey. Additional survey details are contained in the accompanying Protocol Survey Data Table 1.

Block 12
The water type break was determined by conducting a protocol field survey, documented in the accompanying Protocol Survey Data Table 1. The proposed type break is located at Sta. 17+36 where the slope increases from 17% to 22%. The channel upstream from this point maintains the 22% slope for 362 feet where channel slopes increase to 39% at Sta. 20+98, up to a 20-foot high bedrock step at Sta. 21+83.

Water Reference ID C: Unnamed tributary to an unnamed mainstem tributary
Location: Section 5, Township 28N Range 7E
Proposed modification: Change current water type: “N, 4” to “F, 3”

Block 10
An electrofishing survey was conducted on June 26, 2008 on an unnamed tributary of an unnamed mainstem tributary. The survey followed guidance provided in the Washington Department of Natural Resources interim water typing rules (WAC 222-16-031(3), Chapter 13 Forest Practices Board Manual). The extent of our survey is delineated by the start and end of survey points on the accompanying map. We sampled a total of 1,695 feet of channel, including 18 pools, none of which met Forest Practices Board Manual, Section 13, criteria for high quality. Water clarity was good with the streambed visible in the deepest pools. A total of 1,101 seconds of electrofisher operation were expended during this survey. No fish of any species were detected within the surveyed reach. Additional survey details are contained in the accompanying Protocol Survey Data Table 2.

Block 12
The water type break was determined by conducting a protocol field survey, documented in the accompanying Protocol Survey Data Table 2. The proposed type break is located at an abrupt change in slope, from 9% to 17%, encountered at Sta. 2+01. Upstream of Sta. 2+01 the channel maintains a 17% boulder and cobble cascade for approximately 90 feet with several short segments of subsurface flow. There are few defined pools within the surveyed reach. No fish of any species were detected during the entire surveyed reach, likely due to the 75-foot segment of marginally defined, subsurface connection of this channel network with the fish-bearing mainstem channel represented by an impoundment of water, located immediately downstream from the survey start.
Additional Block Text continued

**Water Reference ID G:** Unnamed tributary to an unnamed mainstem tributary

**Location:** Section 5, Township 28N Range 7E

**Proposed modification:** Change current water type: "N, 4" to "F, 3"

**Block 10**
A field assessment of physical habitat characteristics was conducted on June 26, 2008 on an unnamed tributary of an unnamed tributary. The survey followed guidance provided in the Washington Department of Natural Resources interim water typing rules (WAC 222-16-031(3), Chapter 13 Forest Practices Board Manual). We made field observations on 75 feet of channel during the protocol survey described for Water Reference ID C. No fish of any species were detected within the subject tributary.

**Block 12**
The water type break was determined by conducting a field assessment. Habitat within the subject tributary does not maintain characteristics suitable to sustain fish use upstream of Sta. 0+75. This conclusion is based on channel observations made during the field survey and its relatively small basin area (approximately 20 acres). Although physical channel dimensions upstream of its confluence with the mainstem fail meet those physical criteria for presumed fish occupancy, there are no significant features within the initial 75 feet of the subject tributary to preclude potential fish passage into this channel. Upstream from the break in slope at Sta. 0+75, the channel slope increases to 17%, contains few defined pools and maintains wetted channel widths of approximately 1-foot.
Protocol Survey Data

The attached modifications to the Washington State Department of Natural Resources' Forest Practices Activity Map were based on the results from protocol field surveys represented in the following Protocol Survey Data Tables. These map changes are included on one map due to the influence of a single water type modification on the corresponding types or locations of other segments on this map.

The highlighted and labeled segments in the figure below represent the survey extents documented in the following Protocol Survey Data Tables. The label number below corresponds to the table number on the following pages.
Protocol Survey Data Table 1.

**Survey Data:**

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<thead>
<tr>
<th>Survey ID number</th>
<th>DNR_062608_01E_28N07E05J</th>
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</thead>
<tbody>
<tr>
<td>Date</td>
<td>June 26, 2008</td>
</tr>
<tr>
<td>Surveyors</td>
<td>SMH, JWD: Forest &amp; Channel Metrics, Inc.</td>
</tr>
<tr>
<td>Electrophisher type and setup</td>
<td>Smith-Root LR-24: Manual setup, 900 volts, 12 % duty cycle, frequency of 30 Hz</td>
</tr>
<tr>
<td>Weather Start</td>
<td>Overcast</td>
</tr>
<tr>
<td>Temperature</td>
<td>Air: 10°C</td>
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<tr>
<td>Specific conductivity</td>
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<td>Discharge</td>
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<tr>
<td>Weather End</td>
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</tr>
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<td>Total pools</td>
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<td>Total seconds shocked</td>
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**Physical Survey Data:**

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<th>Distance (feet)</th>
<th>Wetted Channel Width (feet)</th>
<th>Bankfull Channel Width (feet)</th>
<th>Valley Width (feet)</th>
<th>Channel Confinement</th>
<th>Channel Slope (%)</th>
<th>Qualifying Pool Tally</th>
<th>Total Pool Tally</th>
<th>Wood Loading</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>2</td>
<td>5</td>
<td>25</td>
<td>Unconfined</td>
<td>10</td>
<td>-</td>
<td>-</td>
<td>Moderate</td>
</tr>
</tbody>
</table>

Figure 1. Start of survey location, mid-reach.

| 101             | 2                            | 6.5                           | 20                  | Moderately confined | 12                | 0                    | 4                 | Moderate     |
| 200             | 1.5                          | 6                             | 12                  | Highly confined     | 15                | 0                    | 9                 | Moderate     |
| 301             | 3                            | 4                             | 18                  | Unconfined          | 7                 | 0                    | 11                | Moderate     |
| 400             | 1.5                          | 2.5                           | 15                  | Unconfined          | 9                 | 0                    | 15                | Moderate     |
| 500             | 25                           | 35                            | 45                  | Highly confined     | 9                 | 1                    | 17                | Moderate     |
| 602             | 40                           | 60                            | 60                  | Highly confined     | 10                | 2                    | 18                | High         |
| 703             | 115                          | 130                           | 140                 | Highly confined     | 2                 | 4                    | 19                | High         |
| 802             | 125                          | 135                           | 150                 | Highly confined     | 4                 | 4                    | 19                | High         |
| 900             | 10                           | 15                            | 70                  | Unconfined          | 7                 | 5                    | 20                | High         |
| 1033            | Location of beaver dam at unused forest road. |
| 1000            | 80                           | 85                            | 100                 | Highly confined     | 5                 | 6                    | 21                | High         |
| 1100            | 1                            | 2.5                           | 2.5                 | Highly confined     | 12                | 6                    | 22                | Low          |
| 1202            | 1.5                          | 1.5                           | 70                  | Unconfined          | 14                | 6                    | 25                | Low          |
| 1300            | 1.5                          | 3                             | 35                  | Unconfined          | 12                | 6                    | 27                | Low          |
| 1401            | 2                            | 3                             | 20                  | Unconfined          | 7                 | 6                    | 28                | Moderate     |
| 1502            | 1.5                          | 2                             | 2                   | Highly confined     | 16                | 6                    | 29                | Low          |
| 1604            | 1.5                          | 3.5                           | 20                  | Unconfined          | 15                | 6                    | 33                | Low          |
| 1701            | 1.5                          | 4                             | 6                   | Highly confined     | 17                | 6                    | 34                | Low          |
| 1736            | Figure 2. Location of proposed regulatory type break, at abrupt change in slope, from 17% to 22%; channel maintains a slope of 22% for 362 feet before increasing to 39%. |
| 1812            | 2                            | 5                             | 7                   | Highly confined     | 22                | 6                    | 37                | Moderate     |
| 1900            | 3                            | 4.5                           | 8                   | Highly confined     | 22                | 6                    | 39                | Moderate     |
| 2000            | 2                            | 3                             | 6                   | Highly confined     | 26                | 6                    | 45                | Moderate     |
| 2128            | 2.5                          | 5                             | 5                   | Highly confined     | 68                | 6                    | 48                | High         |
| 2244            | Figure 3. End of survey location, at top of 20-foot bedrock step. |

**Catch Data:**

- **Fish species and age classes present:** Coastal cutthroat trout (*Oncorhynchus clarki clarki*): 1
  - 0+ 1+ 2+ 3+
  - 0 1 0 0

- **Last fish description:** Coastal cutthroat trout, 99 mm in length, located 0+02
- **Amphibian species present:** Pacific giant salamander (*Dicamptodon tenebrosus*)
  - Red-legged frog (*Rana aurora*)
Protocol Survey Data Table 2.

Survey Data:

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<td>SMH, JWD: Forest &amp; Channel Metrics, Inc.</td>
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<td>Electrofishing type and setup</td>
<td>Smith-Root LR-24: Manual setup, 900 volts, 12 % duty cycle, frequency of 30 Hz</td>
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<td>Weather</td>
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<td>Weather</td>
<td>Overcast</td>
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Physical Survey Data:

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Figure 4. Start of survey location, upstream of forest road crossing.

Figure 5. Location of proposed regulatory type break, at abrupt change in slope, from 9% to 17%, channel maintains a 17% boulder and cobble cascade for approximately 90 feet upstream.

Figure 6. End of survey location, at forest road crossing.

Road crossing: 18-inch corrugated metal pipe (7% slope)
Outlet Condition: Immediate 1-foot drop to boulder and cobble substrate, extending for 9 feet to channel (5-foot total vertical drop from outlet)

Catch Data:

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<th>Fish species and age classes present</th>
<th>No fish of any species were detected within the surveyed reach</th>
</tr>
</thead>
<tbody>
<tr>
<td>Amphibian species present</td>
<td>None detected</td>
</tr>
</tbody>
</table>
Protocol Survey Photos

The following photographs were taken during the field surveys represented in the preceding Protocol Survey Data Tables. The figure labels below correspond to the figure labels in the comment fields for the respective Protocol Survey Data Tables above. These photos have been included to provide further documentation of stream conditions and other features observed within the surveyed reaches.

Figure 1. Start of survey location, mid-reach (Sta. 0+00).
Figure 2. Location of proposed regulatory type break, at abrupt change in slope, from 17% to 22%; channel maintains a slope of 22% for 362 feet before increasing to 39%. (Sta. 17+36).

Figure 3. End of survey location, at top of 20-foot bedrock step (Sta. 22+44).
Figure 4. Start of survey location, upstream of forest road crossing (Sta. 0+30).

Figure 5. Location of proposed regulatory type break, at abrupt change in slope, from 9% to 17%; channel maintains a 17% boulder and cobble cascade for approximately 90 feet upstream (Sta. 2+01).
Figure 6. End o' survey location, at forest road crossing (Sta. 16+95).
From: Brock, David W (DFW)
Sent: Wednesday, April 07, 2010 11:44 AM
To: ALEXANDER, KEVIN (DNR)
Subject: RE: Water Type Modifications

Kevin,

I concur with stream Modification NW 07 10 0003 and NW 07 10 0018 as provided in your e-mail.

For reference, You need to consult with Brendan for activities in Skagit and Whatcom Counties and with me for activities in King and Snohomish Counties.

Thanks,

David W. Brock
Regional Habitat Program Manager
16018 Mill Creek Blvd
Mill Creek, WA 98212
425-775-1311 #114

From: ALEXANDER, KEVIN (DNR)
Sent: Wednesday, April 07, 2010 11:24 AM
To: Brock, David W (DFW)
Subject: Water Type Modifications

David~

We just got off the phone and I would like to get your concurrence with these water type modifications:

NW 07 10 0003
NW 07 10 0018

In the future would you like me to consult directly with Brendan Brokes?

Thank you for your time.

Kevin Alexander
Forest Practices Forester 1
Resource Protection & Forest Practices, Northwest Region
Washington State Department of Natural Resources (DNR)
360.391.4197
kevin.alexander@dnr.wa.gov
Reviewer Comments
Water Type Modification

Attention Reviewers: DNR will make a decision by the Comment Due Date. Your comments only will be considered if they are received on or before the Comment Due Date. Return this completed form by mail, fax, or e-mail to the appropriate DNR Region office.

Reviewer's Name: ___________________________ Reviewer's Affiliation: ___________________________

Reviewer's Phone Number: _____________________ Reviewer's E-Mail: ____________________________

☐ Agree with proposed change(s) ☐ Disagree with proposed change(s)

Reasons for Agreement or Disagreement (add attachments if necessary):

Signature ___________________________ Date ____________

(Signatures are not necessary for e-mailed responses)

DNR Office Summary and Decision

<table>
<thead>
<tr>
<th>Name of Reviewers</th>
<th>Agree</th>
<th>Disagree</th>
<th>Date Comment Received</th>
<th>No Reply</th>
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<tr>
<td>Other:</td>
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<td>Other:</td>
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</tr>
</tbody>
</table>

☐ Approve change ☐ Disapprove change

Reasons for disapproval:

Signature ___________________________ Date ____________

Proponent and reviewers notified of decision by ___________________________ on ____________

E-mailed: 3-31-10

Form QQ 49 (03/05) revised 03/07, 4/08 2 of 2
## Water Type Modification Form

*(For changes to the Water Type Map)*

**Check all that apply**

- [x] Adding streams/lakes
- [ ] Removing streams/lakes
- [ ] Changing location of streams/lakes
- [ ] Changing water type based on physical characteristics
- [ ] Changing water type based on protocol survey
- [ ] Other Describe

<table>
<thead>
<tr>
<th>No.</th>
<th>Water Reference Id</th>
<th>Name of Water</th>
<th>Tributary To</th>
<th>Legal Description (¼/Section, Township, Range, EWL)</th>
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<tr>
<th>No.</th>
<th>County</th>
<th>Water Type Shown on Map</th>
<th>Proposed Water Type</th>
<th>Date of Field Visit</th>
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<tbody>
<tr>
<td>5</td>
<td>Snohomish</td>
<td>N/A</td>
<td>4</td>
<td>3/11/2008</td>
</tr>
</tbody>
</table>

**9. Forest Practices Application Number(s) (if applicable)**

**10. Change is based on the following (check all that apply)**

- [ ] Fish found
- [ ] No fish found
- [x] Physical characteristics
- [ ] Public water diversion
- [ ] Fish hatchery diversion
- [ ] Water feature exists, but does not meet WAC 222-16-031 definition.

**11. Water levels in the survey area were:**

- [ ] Above Normal
- [x] Normal
- [ ] Below Normal

**Description:**

- Stream goes subsurface

**12. The water type break was determined by:**

- [ ] Stopping at last observed fish
- [ ] Stopping at upper extent of fish habitat
- [ ] Stopping at end of harvest or property boundary
- [x] Other - Describe

**13. Are there any fish passage barriers downstream of the surveyed stream segment(s):**

- [x] Natural barriers
- [ ] Falls
- [ ] Cascades
- [ ] Bedrock chutes
- [ ] Temporary barriers (log jams)
- [ ] Man-made barriers (culverts)

**Fish passage barriers were identified by:**

- [ ] Maps
- [ ] Field observation
- [ ] Other - describe

**14. Is there evidence of mass wasting or scouring events?**

- [x] Yes

**Describe how these affected current stream channel conditions and fish distribution in the stream.**

- [ ] No

**Stream channel deeply incised. At head walls of stream is an old landslide**

**Proponent name and signature**

<table>
<thead>
<tr>
<th>Name</th>
<th>Print Name</th>
<th>Signature</th>
<th>Organization name and address</th>
<th>Telephone number</th>
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<tbody>
<tr>
<td></td>
<td>Adam Ellsworth</td>
<td><em>Henderson</em></td>
<td>919 N. Township St. Sedro Woolley, WA 98284</td>
<td>360-855-3500</td>
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**Surveyor name**

<table>
<thead>
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<th>Name</th>
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<tbody>
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Water Type Modification Form  
(For changes to the Water Type Map)

Check all that apply

- Adding streams/lakes
- Removing streams/lakes
- Changing location of streams/lakes
- Changing water type based on physical characteristics
- Changing water type based on protocol survey
- Other: Describe

<table>
<thead>
<tr>
<th>1. Water Reference Id</th>
<th>2. Name of Water</th>
<th>3. Tributary To</th>
<th>4. Legal Description (¼ Section, Township, Range, E/W)</th>
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5. County: Snohomish
6. Water Type Shown on Map: N/A
7. Proposed Water Type: 5
8. Date of Field Visit: 5/12/2008

9. Forest Practices Application Number(s) (if applicable)

10. Change is based on the following (check all that apply)

- Fish found
- No fish found
- Physical characteristics
- Public water diversion
- Fish hatchery diversion
- Water feature exists, but does not meet WAC 222-16-031 definition

11. Water levels in the survey area were

   Description:

<table>
<thead>
<tr>
<th>Above Normal</th>
<th>Normal</th>
<th>Below Normal</th>
</tr>
</thead>
</table>

12. The water type break was determined by

   - Stopping at last observed fish
   - Stopping at upper extent of fish habitat
   - Stopping at end of harvest or property boundary
   - Other: Describe:
   
   Stopping at the headwaters of the stream.

13. Are there any fish passage barriers downstream of the surveyed stream segment(s)

   - Natural barriers
   - Cascades
   - Bedrock chutes
   - Temporary barriers (log jams)
   - Man-made barriers (culverts)

   Fish passage barriers were identified by:

   - Maps
   - Field observation
   - Other: describe

14. Is there evidence of mass wasting or scouring events?

   - Yes: Describe how these affected current stream channel conditions and fish distribution in the stream
   - No

15. Proponent name and signature

   [Signature]

   Print Name: Adam Elsworth
   Surveyor Name: Travis McGown

   Organization name and address: 919 N Township St, Sedro Woolley, WA 98284

   Telephone number: 360-856-3500
Water Type Modification Form
(For changes to the Water Type Map)

Check all that apply

- Adding streams/lakes
- Removing streams/lakes
- Changing location of streams/lakes
- Changing water type based on physical characteristics
- Changing water type based on protocol survey
- Other. Describe

<table>
<thead>
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<th>County</th>
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<th>Date of Field Visit</th>
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<td>3</td>
<td>3/16/2008</td>
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9. Forest Practices Application Number(s) (if applicable)

10. Change is based on the following (check all that apply)

- Fish found
- No fish found
- Physical characteristics
- Public water diversion
- Fish hatchery diversion
- Water feature exists, but does not meet WAC 222-16-631 definition

11. Water levels in the survey area were

- Above Normal
- Normal
- Below Normal

12. The water type break was determined by

- Stopping at last observed fish
- Stopping at upper extent of fish habitat
- Stopping at end of harvest or property boundary
- Other - Describe:

13. Are there any fish passage barriers downstream of the surveyed stream segment(s)?

- Natural barriers:  
- Falls  
- Cascades  
- Bedrock chutes  
- Temporary barriers (log jams)  
- Man-made barriers (culverts)

Fish passage barriers were identified by

- Maps
- Field observation
- Other - describe.

14. Is there evidence of mass wasting or scouring events?

- Yes. Describe how these affected current stream channel conditions and fish distribution in the stream.
- No. Inner gorge area Past and present shallow slope failures.

*Proponent name and signature

Print Name: Adam Elliot [Signature]

Surveyor name

Organization name and address

919 N. Township St
Sedro Woolley, WA 98284

Telephone number

360-856-3500
Water Type Modification Form
(For changes to the Water Type Map)

Check all that apply

- Adding streams/lakes
- Removing streams/lakes
- Changing location of streams/lakes
- Changing water type based on physical characteristics
- Changing water type based on protocol survey
- Other Describe

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<tr>
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<th>Proposed Water Type</th>
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</thead>
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<td>Snohomish</td>
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<td>5</td>
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| Date of Field Visit | 5/12/2008 |

| Forest Practices Application Number(s) (if applicable) |

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<tr>
<td>Fishing found</td>
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<tr>
<td>No fishing found</td>
</tr>
<tr>
<td>Physical characteristics</td>
</tr>
</tbody>
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11. Water levels in the survey area were: [ ] Above Normal [ ] Normal [ ] Below Normal

12. The water type break was determined by:
- Stopping at last observed fish
- Stopping at upper extent of fish habitat
- Stopping at end of harvest or property boundary
- Other - Describe:

Stream width increases from <2' to >2'

13. Are there any fish passage barriers downstream of the surveyed stream segment(s):

- Natural barriers
- Falls
- Cascades
- Bedrock chutes
- Temporary barriers (log jams)
- Man-made barriers (culverts)

Fish passage barriers were identified by: [ ] Maps [ ] Field observation [ ] Other - describe:

14. Is there evidence of mass wasting or scouring events?

[ ] Yes. Describe how these affected current stream channel conditions and fish distribution in the stream.
[ ] No

**Proponent name and signature**

Print Name: Adam Slawson

Surveyor name

Organization name and address: 919 N Township St.
Sedro Woolley, WA 98284
Telephone number: 360-856-3500

Form QQ.49 (05/05) Revised 05/07 1 of 2
Water Type Modification Form
(For changes to the Water Type Map)

Check all that apply
- Adding streams/lakes
- Removing streams/lakes
- Changing location of streams/lakes
- Changing water type based on physical characteristics
- Changing water type based on protocol survey
- Other Describe

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<th>7. Proposed Water Type</th>
<th>8. Date of Field Visit</th>
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</thead>
<tbody>
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<th>9. Forest Practices Application Number(s) (if applicable)</th>
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</table>

10. Change is based on the following (check all that apply)
- Fish found
- No fish found
- Physical characteristics
- Public water diversion
- Fish hatchery diversion
- Water feature exists, but does not meet WAC 222-16-031 definition

11. Water levels in the survey area were:
- Above Normal
- Normal
- Below Normal

12. The water type break was determined by
- Stopping at last observed fish
- Stopping at upper extent of fish habitat
- Stopping at end of harvest or property boundary
- Other - Describe

13. Are there any fish passage barriers downstream of the surveyed stream segment(s):
- Natural barriers
- Falls
- Cascades
- Bedrock chutes
- Temporary barriers (log jams)
- Man-made barriers (culverts)

Fish passage barriers were identified by
- [x] Maps
- [x] Field observation
- [ ] Other - describe

14. Is there evidence of mass wasting or scouring events?
- Yes
- Describe how these affected current stream channel conditions and fish distribution in the stream.
- [x] No

*Proponent name and signature

Print Name: Adam Fillmore

Surveyor name

Organization name and address
919 N. Township St.
Sedo Woolley, WA 69234

Telephone number
360-856-3500

Form QO-49 (05/03) revised 05/07
**Water Type Modification Form**  
*(For changes to the Water Type Map)*

Check all that apply

- [ ] Adding streams/lakes
- [ ] Removing streams/lakes
- [ ] Changing location of streams/lakes
- [X] Changing water type based on physical characteristics
- [ ] Changing water type based on protocol survey
- [ ] Other. Describe__________________________

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<tr>
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9. *Forest Practices Application Number(s) (if applicable)*

10. Change is based on the following (check all that apply)
- [ ] Fish found
- [ ] Public water diversion
- [ ] No fish found
- [ ] Fish hatchery diversion
- [X] Physical characteristics
- [ ] Water feature exists, but does not meet WAC 222-16-031 definition

11. Water levels in the survey area were:  
- [ ] Above Normal  
- [X] Normal  
- [ ] Below Normal  

12. The water type break was determined by:
- [ ] Stopping at last observed fish
- [ ] Stopping at upper extent of fish habitat
- [X] Stopping at end of harvest or property boundary
- [X] Other – Describe:  
  Stopped at headwaters of stream

13. Are there any fish passage barriers downstream of the surveyed stream segment(s)?
- [ ] Natural barriers:  
  - [ ] Fails  
  - [ ] Cascades  
  - [ ] Bedrock chutes  
  If yes, what is the height ______
- [ ] Temporary barriers (log jams)
- [ ] Man-made barriers (culverts)

Fish passage barriers were identified by  
- [ ] Maps  
- [ ] Field observation  
- [ ] Other – describe:

14. Is there evidence of mass wasting or scouring events?
- [ ] Yes  
  Describe how these affected current stream channel conditions and fish distribution in the stream.
- [X] No

**Proponent name and signature**  

[Signature]

**Print Name:** Adam Ellsworth  
**Surveyor name:**

**Organization name and address**  
819 N Township St, Sedro Woolley, WA 98284  
**Telephone number:** 360-856-3500
Water Type Modification Form  
(For changes to the Water Type Map)

Check all that apply

- [x] Changing water type based on physical characteristics
- [ ] Changing water type based on protocol survey
- [ ] Other

<table>
<thead>
<tr>
<th>Water Reference Id</th>
<th>Name of Water</th>
<th>Tributary To</th>
<th>Legal Description (1/4 Section, Township, Range, E/W)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>E 1/2, Sec 4, T28N, R07E, W1/2 Sec 3, T28N, R07E</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>County</th>
<th>Water Type Shown on Map</th>
<th>Proposed Water Type</th>
<th>Date of Field Visit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Snohomish</td>
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<tr>
<th>Forest Practices Application Number(s) (if applicable)</th>
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10. Change is based on the following (check all that apply).
- [ ] Fish found
- [x] No fish found
- [x] Physical characteristics
- [ ] Public water diversion
- [ ] Fish hatchery diversion
- [ ] Water feature exists, but does not meet WAC 222-16-031 definition.

11. Water levels in the survey area were
   - [ ] Above Normal
   - [x] Normal
   - [ ] Below Normal

12. The water type break was determined by:
   - [ ] Stopping at last observed fish
   - [ ] Stopping at upper extent of fish habitat
   - [x] Stopping at end of harvest or property boundary
   - [ ] Other

13. Are there any fish passage barriers downstream of the surveyed stream segment(s):
   - [ ] Natural barriers
   - [ ] Falls
   - [x] Cascades
   - [ ] Bedrock chutes
   - [ ] Temporary barriers (log jams)
   - [x] Man-made barriers (culverts)

   Fish passage barriers were identified by
   - [ ] Maps
   - [x] Field observation
   - [ ] Other

14. Is there evidence of mass wasting or scouring events?
   - [x] Yes
   - [ ] No

Proponent name and signature

Print Name: Adam Ellsworth

Organization name and address: 919 N. Township St.
Sedro Woolley, WA 98284
Telephone number: 360-856-3500
# Water Type Modification Form

(For changes to the Water Type Map)

<table>
<thead>
<tr>
<th>Check all that apply</th>
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<tbody>
<tr>
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<td>*Changing location of streams/lakes</td>
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<tr>
<td>Changing water type based on physical characteristics</td>
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<td>Changing water type based on protocol survey</td>
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<tr>
<td>Other. Describe</td>
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<table>
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<th>1. Water Reference Id</th>
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<th>3. Tributary To</th>
<th>4. Legal Description (%/ Section, Township, Range, E/W)</th>
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<tr>
<th>5. County</th>
<th>6. Water Type Shown on Map</th>
<th>7. Proposed Water Type</th>
<th>8. Date of Field Visit</th>
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<tr>
<td>Snohomish</td>
<td>Map</td>
<td>N/A</td>
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<tr>
<th>Change is based on the following (check all that apply)</th>
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<tbody>
<tr>
<td>Fish found</td>
<td>Public water diversion</td>
</tr>
<tr>
<td>No fish found</td>
<td>Fish hatchery diversion</td>
</tr>
<tr>
<td>Physical characteristics</td>
<td>Water feature exists, but does not meet WAC 222-16-031 definition</td>
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<table>
<thead>
<tr>
<th>11. Water levels in the survey area were</th>
<th></th>
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<tbody>
<tr>
<td>Above Normal</td>
<td>Normal</td>
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<table>
<thead>
<tr>
<th>Description</th>
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<table>
<thead>
<tr>
<th>12. The water type break was determined by</th>
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<tbody>
<tr>
<td>Stopping at last observed fish</td>
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</tr>
<tr>
<td>Stopping at upper extent of fish habitat</td>
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<tr>
<td>Stopping at end of harvest or property boundary</td>
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<tr>
<td>Other. Describe</td>
<td>Stopped at headwaters of stream</td>
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<table>
<thead>
<tr>
<th>13. Are there any fish passage barriers downstream of the surveyed stream segment(s)</th>
<th></th>
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<tbody>
<tr>
<td>Natural barriers</td>
<td>Falls</td>
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<tr>
<td>Temporary barriers (log jams)</td>
<td>Man-made barriers (culverts)</td>
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<table>
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<tr>
<th>Fish passage barriers were identified by</th>
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<tbody>
<tr>
<td>Maps</td>
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<table>
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<tr>
<th>14. Is there evidence of mass wasting or scouring events?</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Yes. Describe how these affected current stream channel conditions and fish distribution in the stream</td>
<td>No</td>
</tr>
</tbody>
</table>

**Propponent name and signature**

<table>
<thead>
<tr>
<th>Print Name</th>
<th>Organization name and address</th>
<th>Telephone number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Adam Ellingson</td>
<td>919 N Township St Sedro Woolley, WA 98284</td>
<td>360-856-3500</td>
</tr>
</tbody>
</table>

**Surveyor name**

<table>
<thead>
<tr>
<th>Organization name and address</th>
<th>Telephone number</th>
</tr>
</thead>
<tbody>
<tr>
<td>2816777</td>
<td></td>
</tr>
</tbody>
</table>
Water Type Modification Form
(For changes to the Water Type Map)

Check all that apply
- [ ] *Adding streams/lakes
- [ ] *Removing streams/lakes
- [x] *Changing location of streams/lakes
- [ ] Changing water type based on physical characteristics
- [ ] Changing water type based on protocol survey
- [ ] Other. Describe

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>County</td>
<td>N/A</td>
<td>N/A</td>
<td>NW 1/4 SW 1/4, Sec 3, 28N, R07E</td>
</tr>
<tr>
<td></td>
<td>Snohomish</td>
<td>N/A</td>
<td>N/A</td>
<td></td>
</tr>
</tbody>
</table>

5. Water Type Shown on Map
6. Water Type Shown on Map
7. Proposed Water Type
8. Date of Field Visit

9. Forest Practices Application Number(s) (if applicable)

10. Change is based on the following (check all that apply).
- [ ] Fish found
- [ ] Public water diversion
- [ ] No fish found
- [ ] Fish hatchery diversion
- [ ] Physical characteristics
- [ ] Water feature exists, but does not meet WAC 222-16-031 definition

11. Water levels in the survey area were:
- [ ] Above Normal
- [ ] Normal
- [ ] Below Normal

12. The water type break was determined by
- [ ] Stopping at last observed fish
- [ ] Stopping at upper extent of fish habitat
- [ ] Stopping at end of harvest or property boundary
- [ ] Other – Describe

13. Are there any fish passage barriers downstream of the surveyed stream segment(s).
- [ ] Natural barriers:
- [ ] Falls
- [ ] Cascades
- [ ] Bedrock chutes
- [ ] Temporary barriers (log jams)
- [ ] Man-made barriers (culverts)

Fish passage barriers were identified by:
- [ ] Maps
- [ ] Field observation
- [ ] Other – describe

14. Is there evidence of mass wasting or scouring events?
- [ ] Yes. Describe how these affected current stream channel conditions and fish distribution in the stream.
- [ ] No

*Proponent name and signature

Print Name: Adam Ellsworth

Surveyor name

Organization name and address

Telephone number

Form QQ-49 (05/07) revised 05/07
**Water Type Modification Form**

*(For changes to the Water Type Map)*

Check all that apply

- [ ] Adding streams/lakes
- [x] Removing streams/lakes
- [ ] Changing location of streams/lakes
- [ ] Changing water type based on physical characteristics
- [ ] Changing water type based on protocol survey
- [ ] Other Describe______________________________

<table>
<thead>
<tr>
<th>1. Water Reference Id</th>
<th>2. Name of Water</th>
<th>3. Tributary To</th>
<th>4. Legal Description (1/4 Section, Township, Range, E/W)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>SW1/4 Sec 3 28N, R07E:NE1/4 Sec 4 T28N R07E</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>5. County</th>
<th>6. Water Type Shown on Map</th>
<th>7. Proposed Water Type</th>
<th>8. Date of Field Visit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Snohomish</td>
<td>N/A</td>
<td>N/A</td>
<td>5/1/2008</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>9. Forest Practices Application Number(s) (if applicable)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
</tr>
</tbody>
</table>

10. Change is based on the following (check all that apply):

- [ ] Fish found
- [ ] No fish found
- [ ] Physical characteristics
- [ ] Public water diversion
- [ ] Fish hatchery diversion
- [ ] Water feature exists, but does not meet WAC 222-16-031 definition

11. Water levels in the survey area were:

- [ ] Above Normal
- [ ] Normal
- [ ] Below Normal

12. The water type break was determined by:

- [ ] Stopping at last observed fish
- [ ] Stopping at upper extent of fish habitat
- [ ] Stopping at end of harvest or property boundary
- [ ] Other – Describe: Stopped at headwaters of stream

13. Are there any fish passage barriers downstream of the surveyed stream segment(s):

- [ ] Natural barriers
- [ ] Falls
- [ ] Cascades
- [ ] Bedrock chutes
- [ ] Temporary barriers (log jams)
- [ ] Man-made barriers (culverts)

Fish passage barriers were identified by:

- [ ] Maps
- [ ] Field observation
- [ ] Other – describe

14. Is there evidence of mass wasting or scouring events?

- [ ] Yes. Describe how these affected current stream channel conditions and fish distribution in the stream.
- [ ] No

**Proponent name and signature**

- [Signature]

Print Name: Andrew Eideleworth

Surveyor name

- [Name]

Organization name and address

- [Organization name and address]

Telephone number

- [360-856-3500]

Form QQ 49 (05/05) revised 05/07

1 of 2
Water Type Modification Form
(For changes to the Water Type Map)

Check all that apply

- Adding streams/lakes
- Removing streams/lakes
- Changing location of streams/lakes
- Changing water type based on physical characteristics
- Changing water type based on protocol survey
- Other Describe

| 1. Water Reference Id | 2. Name of Water | 3. Tributary To | 4. Legal Description (¼ Sec, Township, Range, E/W)
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>SW1/4 Sec 3 28N, R07E. NE 1/4 Sec 4 T28N R07E</td>
</tr>
</tbody>
</table>

5. County

6. Water Type Shown on Map

7. Proposed Water Type

8. Date of Field Visit

9. Forest Practices Application Number(s) (if applicable)

10. Change is based on the following (check all that apply)

- Fish found
- No fish found
- Physical characteristics
- Public water diversion
- Fish hatchery diversion
- Water feature exists, but does not meet WAC 222-16-031 definition.

11. Water levels in the survey area were:

<table>
<thead>
<tr>
<th>Description</th>
<th>Above Normal</th>
<th>Normal</th>
<th>Below Normal</th>
</tr>
</thead>
</table>

12. The water type break was determined by:

- Stopping at last observed fish
- Stopping at upper extent of fish habitat
- Stopping at end of harvest or property boundary
- Other - Describe

Stopped at headwaters of stream

13. Are there any fish passage barriers downstream of the surveyed stream segment(s):

- Natural barriers:       | Falls | Cascades | Bedrock chutes: If yes, what is the height
- Temporary barriers (log jams)
- Man-made barriers (culverts)

Fish passage barriers were identified by

- Maps
- Field observation
- Other - describe

14. Is there evidence of mass wasting or scouring events?

- Yes. Describe how these affected current stream channel conditions and fish distribution in the stream.
- No

*Proprietor name and signature

Print Name: Adam Ellsworth
Surveyor name: Tessa Miranda

Organization name and address: 919 N. Township St
Telephone number: 360-856-3500

Organization name and address: Sedro Woolley, WA 98284
Telephone number:

Form QQ.49 (05/03) revised 05/07 1 of 2
Check all that apply:

- Adding streams/lakes
- Removing streams/lakes
- Changing location of streams/lakes
- Changing water type based on physical characteristics
- Changing water type based on protocol survey
- Other. Describe

<table>
<thead>
<tr>
<th>1. Water Reference Id</th>
<th>2. Name of Water</th>
<th>3. Tributary To</th>
<th>4. Legal Description (¼/4 Section, Township, Range, E/W)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>SW1/4 Sec 3 28N, R07E NE1/4 Sec 4 T28N R07E</td>
</tr>
</tbody>
</table>

5. County
- Snohomish

6. Water Type Shown on Map
- 5

7. Proposed Water Type
- N/A

8. Date of Field Visit
- 5/1/2008

9. Forest Practices Application Number(s) (if applicable)

10. Change is based on the following (check all that apply):
- Fish found
- No fish found
- Physical characteristics
- Public water diversion
- Fish hatchery diversion
- Water feature exists, but does not meet WAC 222-15-031 definition.

11. Water levels in the survey area were:
- Above Normal
- Normal
- Below Normal

12. The water type break was determined by:
- Stopping at last observed fish
- Stopping at upper extent of fish habitat
- Stopping at end of harvest or property boundary
- Other. Describe:
- Stopped at headwaters of stream

13. Are there any fish passage barriers downstream of the surveyed stream segment(s):
- Natural barriers: Falls
- Cascades
- Bedrock chutes
- Temporary barriers (log jams)
- Man-made barriers (culverts)

Fish passage barriers were identified by:
- Maps
- Field observation
- Other. Describe:

14. Is there evidence of mass wasting or scouring events?
- Yes. Describe how these affected current stream channel conditions and fish distribution in the stream.
- No

Proponent name and signature

Print Name: Adam Elliot

Surveyor name

Organization name and address
- Organization name and address

Telephone number
- Telephone number
# Water Type Modification Form
(For changes to the Water Type Map)

Check all that apply:

- Adding streams/lakes
- Removing streams/lakes
- Changing location of streams/lakes
- Changing water type based on physical characteristics
- Changing water type based on protocol survey
- Other. Describe

<table>
<thead>
<tr>
<th>1. Water Reference Id</th>
<th>2. Name of Water</th>
<th>3. Tributary To</th>
<th>4. Legal Description (¼ Section, Township, Range, E/W)</th>
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</thead>
<tbody>
<tr>
<td></td>
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<td>SW1/4 Sec 3 28N, R07E NE1/4 Sec 4 T28N R07E</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

5. County

<table>
<thead>
<tr>
<th>5. County</th>
<th>6. Water Type Shown on Map</th>
<th>7. Proposed Water Type</th>
<th>8. Date of Field Visit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Snohomish</td>
<td>5</td>
<td>N/A</td>
<td>5/1/2000</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>9. Forest Practices Application Number(s) (if applicable)</th>
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</thead>
<tbody>
<tr>
<td></td>
</tr>
</tbody>
</table>

10. Change is based on the following (check all that apply):

- Fish found
- No fish found
- Physical characteristics
- Public water diverted
- Fish hatchery diversion
- Water feature exists, but does not meet WAC 222-16-031 definition

11. Water levels in the survey area were:

- [ ] Above Normal
- [ ] Normal
- [ ] Below Normal

12. The water type break was determined by:

- Stopping at last observed fish
- Stopping at upper extent of fish habitat
- Stopping at end of harvest or property boundary
- Other – Describe:
  
13. Are there any fish passage barriers downstream of the surveyed stream segment(s)?

- Natural barriers
- Falls
- Cascades
- Bedrock chutes
- Temporary barriers (log jams)
- Man-made barriers (culverts)

14. Is there evidence of mass wasting or scouring events?

- [ ] Yes. Describe how these affected current stream channel conditions and fish distribution in the stream.
- [ ] No

---

*Proponent name and signature*

Print Name: Adam Ellsworth

Surveyor name:

Organization name and address: 910 N. Township St, Sedro Woolley, WA 98284

Telephone number: 360.855-3500
## Water Type Modification Form

**(For changes to the Water Type Map)**

### Check all that apply

- [x] Adding streams/lakes
- [ ] Removing streams/lakes
- [ ] Changing location of streams/lakes
- [ ] Changing water type based on physical characteristics
- [ ] Changing water type based on protocol survey
- [ ] Other. Describe

### DNR Use Only

- Region Name: [Redacted]
- Region Reference Number: [Redacted]
- WRIA #: [Redacted]

<table>
<thead>
<tr>
<th>1. Water Reference Id</th>
<th>2. Name of Water</th>
<th>3. Tributary To</th>
<th>4. Legal Description (¼ Section, Township, Range, E/W) NW 1/4 Sec 4 28N, R07E; SW 1/4 Sec 3 T28N, R07E</th>
</tr>
</thead>
<tbody>
<tr>
<td>Snohomish</td>
<td>N/A</td>
<td></td>
<td>Way of South Fork of Stillaguamish River</td>
</tr>
</tbody>
</table>

5. County

6. Water Type Shown on Map

7. Proposed Water Type

8. Date of Field Visit

9. Forest Practices Application Number(s) (if applicable)

10. Change is based on the following (check all that apply).

- [ ] Fish found
- [ ] No fish found
- [ ] Physical characteristics

11. Water levels in the survey area were:

- [ ] Above Normal
- [x] Normal
- [ ] Below Normal

Description:

12. The water type break was determined by

- [x] Stopping at last observed fish
- [ ] Stopping at upper extent of fish habitat
- [ ] Stopping at end of harvest property boundary
- [x] Other – Describe

Stopped at headwaters of stream

13. Are there any fish passage barriers downstream of the surveyed stream segment(s)

- [ ] Natural barriers
- [ ] Falls
- [ ] Cascades
- [ ] Bedrock chutes
- [ ] Temporary barriers (log jams)
- [ ] Man-made barriers (culverts)

Fish passage barriers were identified by

- [ ] Maps
- [ ] Field observation
- [ ] Other – describe

14. Is there evidence of mass wasting or scouring events?

- [x] Yes. Describe how these affected current stream channel conditions and fish distribution in the stream.
- [ ] No

*Proponent name and signature*

Print Name: Adam Fillmuth

Surveyor name: Travis Miranda

Organization name and address: 919 N. Township St. Sedro Woolley, WA 98284

Telephone number: 360-855-3500

---

Form QQ 49 (05/05) revised 05/07

1 of 2

2816777
**Water Type Modification Form**
(For changes to the Water Type Map)

Check all that apply

- [x] Adding streams/lakes
- [ ] Removing streams/lakes
- [ ] Changing location of streams/lakes
- [ ] Changing water type based on physical characteristics
- [ ] Changing water type based on protocol survey
- [ ] Other. Describe

<table>
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<tr>
<th>1</th>
<th>Water Reference Id</th>
<th>2. Name of Water</th>
<th>3. Tributary To</th>
<th>4. <strong>Legal Description</strong> (1/4 Section, Township, Range, E/W)</th>
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<tbody>
<tr>
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<td></td>
<td></td>
<td></td>
<td>NW 1/4 Sec 4 23N, R07E; SW 1/4 Sec 3 T28N, R07E</td>
</tr>
<tr>
<td>5</td>
<td><em>County</em></td>
<td>6. Water Type Shown on Map</td>
<td>7. Proposed Water Type</td>
<td>8. <em>Date of Field Visit</em></td>
</tr>
<tr>
<td>Snohomish</td>
<td>N/A</td>
<td>5</td>
<td>5/12/2008</td>
<td></td>
</tr>
</tbody>
</table>

9. *Forest Practices Application Number(s) (if applicable)

10. Change is based on the following (check all that apply)
- [ ] Fish found
- [ ] No fish found
- [x] Physical characteristics
- [ ] Public water diversion
- [ ] Fish hatchery diversion
- [ ] Water feature exists, but does not meet WAC 222-16-031 definition.

11. Water levels in the survey area were:
- [ ] Above Normal
- [x] Normal
- [ ] Below Normal

Description:

12. The water type break was determined by
- [ ] Stopping at last observed fish
- [x] Stopping at upper extent of fish habitat
- [ ] Stopping at end of harvest or property boundary
- [x] Other – Describe:
  Stopped at headwaters of stream

13. Are there any fish passage barriers downstream of the surveyed stream segment(s):
- [ ] Natural barriers
- [ ] Falls
- [ ] Cascades
- [ ] Bedrock chutes
If yes, what is the height ______
- [ ] Temporary barriers (log jams)
- [ ] Man-made barriers (culverts)

Fish passage barriers were identified by:
- [ ] Maps
- [ ] Field observation
- [ ] Other – describe:

14. Is there evidence of mass wasting or scouring events?
- [x] Yes. Describe how these affected current stream channel conditions and fish distribution in the stream.
- [ ] No

**Proponent name and signature**

*Signature*

Print Name: Adam Fishwater, Travis Miranda

Surveyor name

Organization name and address
919 N Township St
Sedro Woolley, WA 98284

Telephone number
360-856-3500

Form QQ 49 (05/05) revised 05/07

1 of 2

2816777
**Water Type Modification Form**

(For changes to the Water Type Map)

Check all that apply

- Adding streams/lakes
- Removing streams/lakes
- Changing location of streams/lakes
- Changing water type based on physical characteristics
- Changing water type based on protocol survey
- Other. Describe __________________________

---

<table>
<thead>
<tr>
<th>1. Water Reference Id</th>
<th>2. Name of Water</th>
<th>3. Tributary To</th>
<th>4. Legal Description (1/2 Section, Township, Range, E/W)</th>
</tr>
</thead>
<tbody>
<tr>
<td>4J</td>
<td></td>
<td></td>
<td>NW 1/4 Sec 4 28N, R07E SW 1/4 Sec 3 T28N, R07E</td>
</tr>
</tbody>
</table>

| 5. County 6. Water Type Shown on 7. Proposed Water Type 8. Date of Field Visit |
|-------------------------------|-----------------|-----------------|-----------------|
| Snohomish                     | N/A             | 5               | 5/12/2008       |

---

9. Forest Practices Application Number(s) (if applicable)

10. Change is based on the following (check all that apply)

- [x] Physical characteristics
- [ ] Public water diversion
- [ ] Fish hatchery diversion
- [ ] Water feature exists, but does not meet WAC 222-16-031 definition

---

11. Water levels in the survey area were:

- [ ] Above Normal
- [x] Normal
- [ ] Below Normal

---

12. The water type break was determined by:

- [x] Stopping at headwaters of stream
- [ ] Stopping at last observed fish
- [ ] Stopping at upper extent of fish habitat
- [ ] Stopping at end of harvest or property boundary
- [x] Other – Describe:

   Stopped at headwaters of stream

13. Are there any fish passage barriers downstream of the surveyed stream segment(s):

- [ ] Natural barriers: [ ] Falls [ ] Cascades [ ] Bedrock chutes If yes, what is the height ______
- [ ] Temporary barriers (log jams)
- [ ] Man-made barriers (culverts)

   Fish passage barriers were identified by:

- [ ] Maps
- [ ] Field observation
- [x] Other – describe:

---

14. Is there evidence of mass wasting or scouring events?

- [x] No
- [ ] Yes. Describe how these affected current stream channel conditions and fish distribution in the stream.

---

**Proponent name and signature**

Miranda

Print Name: Miranda Travis Miranda

**Organization name and address**

919 N Township St
Sedro Woolley, WA 98284

Telephone number

360-855-3500

**Surveyor name**

Organization name and address:

Telephone number:

---

Form QQ 49 (05/05) revised 03/07

1 of 2

2816777
Water Type Modification Form
(For changes to the Water Type Map)

Check all that apply

[X] *Adding streams/lakes
[ ] *Removing streams/lakes
[ ] *Changing location of streams/lakes
[ ] Changing water type based on physical characteristics
[ ] Changing water type based on protocol survey
[ ] Other Describe ______________________

DNR Use Only

5. *County
   Snohomish

6. Water Type Shown on Map
   N/A

7. Proposed Water Type
   5

8. *Date of Field Visit
   5/01/2008

9. *Forest Practices Application Number(s) (if applicable)

10. Change is based on the following (check all that apply).
   [ ] Fish found
   [ ] No fish found
   [x] Physical characteristics
   [ ] Public water diversion
   [ ] Fish hatchery diversion
   [ ] Water feature exists, but does not meet WAC 222-16-031 definition.

11. Water levels in the survey area were: [ ] Above Normal [x] Normal [ ] Below Normal

   Description ______________________

12. The water type break was determined by.
   [ ] Stopping at last observed fish
   [ ] Stopping at upper extent of fish habitat
   [x] Stopping at end of harvest or property boundary
   [ ] Other – Describe: ______________________

13. Are there any fish passage barriers downstream of the surveyed stream segment(s):
   [ ] Natural barriers
   [ ] Falls
   [ ] Cascades
   [ ] Bedrock chutes If yes, what is the height ______
   [ ] Temporary barriers (log jams)
   [ ] Man-made barriers (culverts)

   Fish passage barriers were identified by: [ ] Maps
   [ ] Field observation
   [ ] Other – describe: ______________________

14. Is there evidence of mass wasting or scouring events?
   [x] Yes. Describe how these affected current stream channel conditions and fish distribution in the stream.
   [ ] No

*Proponent name and signature ______________________

Print Name: Adam Ellermore

Organization name and address
919 N Township St
Sedro Woolley WA 98284

Telephone number 360-856-3500

Surveyor name ______________________

Organization name and address ______________________

Telephone number ______________________
Water Type Modification Form
(For changes to the Water Type Map)

Check all that apply

* Adding streams/lakes
* Removing streams/lakes
* Changing location of streams/lakes
* Changing water type based on physical characteristics
* Changing water type based on protocol survey
* Other - Describe:

<table>
<thead>
<tr>
<th>1. Water Reference Id</th>
<th>2. Name of Water</th>
<th>3. Tributary To</th>
<th>4. Legal Description (1/4 Sec, Township, Range, E/W)</th>
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</thead>
<tbody>
<tr>
<td>G</td>
<td></td>
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<td>SE 1/4 Sec 33 T29N R07E NW 1/4 Sec 28N R07E</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>5. County</th>
<th>6. Water Type Shown on Map</th>
<th>7. Proposed Water Type</th>
<th>8. Date of Field Visit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Snohomish</td>
<td>N/A</td>
<td>5</td>
<td>5/01/2008</td>
</tr>
</tbody>
</table>

9. Forest Practices Application Number(s) (if applicable)

10. Change is based on the following (check all that apply).

| [ ] Fish found | [ ] Public water diversion |
| [ ] No fish found | [ ] Fish hatchery diversion |
| [x] Physical characteristics | [ ] Water feature exists, but does not meet WAC 222-16-031 definition |

11. Water levels in the survey area were:

<table>
<thead>
<tr>
<th>[ ] Above Normal</th>
<th>[x] Normal</th>
<th>[ ] Below Normal</th>
</tr>
</thead>
</table>

12. The water type break was determined by

| [ ] Stopping at last observed fish |
| [ ] Stopping at upper extent of fish habitat |
| [x] Stopping at end of harvest or property boundary |
| [ ] Other - Describe: |

13. Are there any fish passage barriers downstream of the surveyed stream segment(s):

| [ ] Natural barriers | [ ] Falls | [x] Cascades | [ ] Bedrock chutes |
| [ ] Temporary barriers (log jams) |
| [ ] Mar-made barriers (culverts) |

Fish passage barriers were identified by:

| [ ] Maps | [ ] Field observation | [ ] Other - describe: |

14. Is there evidence of mass wasting or scouring events?

| [ ] Yes | Describe how these affected current stream channel conditions and fish distribution in the stream. |
| [x] No |

* Proponent name and signature

Print Name: Adam Eichendorf

Surveyor name

Organization name and address: Organization name and address

Telephone number: 360-856-3500

Form QQ 49 (05/05) revised 05/07

1 of 2
Water Type Modification Form  
(For changes to the Water Type Map)

Check all that apply
- [x] Adding streams/lakes
- [ ] Removing streams/lakes
- [ ] Changing location of streams/lakes
- [ ] Changing water type based on physical characteristics
- [ ] Changing water type based on protocol survey
- [ ] Other, Describe _ 

<table>
<thead>
<tr>
<th>1. Water Reference Id</th>
<th>2. Name of Water</th>
<th>3. Tributary To</th>
<th>4. Legal Description (¼ Section, Township, Range, E/W)</th>
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<tr>
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5. County  

6. Water Type Shown on Map  

7. Proposed Water Type  

8. Date of Field Visit  

9. Forest Practices Application Number(s) (if applicable)  

10. Change is based on the following (check all that apply)  
- [ ] Fish found  
- [ ] No fish found  
- [x] Physical characteristics  
- [x] Public water diversion  
- [ ] Fish hatchery diversion  
- [ ] Water feature exists, but does not meet WAC 222-16-031 definition.

11. Water levels in the survey area were:  
- [ ] Above Normal  
- [x] Normal  
- [ ] Below Normal  

12. The water type break was determined by  
- [ ] Stopping at last observed fish  
- [x] Stopping at upper extent of fish habitat  
- [ ] Stopping at end of harvest or property boundary  
- [x] Other - Describe:  Stopped at headwaters of stream

13. Are there any fish passage barriers downstream of the surveyed stream segment(s)  
- [ ] Natural barriers  
- [ ] Falls  
- [ ] Cascades  
- [ ] Bedrock chutes  
- [ ] Temporary barriers (log jams)  
- [ ] Man-made barriers (culverts)  

Fish passage barriers were identified by:  
- [ ] Maps  
- [ ] Field observation  
- [ ] Other - describe.

14. Is there evidence of mass wasting or scouring events?  
- [ ] Yes. Describe how these affected current stream channel conditions and fish distribution in the stream  
- [x] No

*Proponent name and signature

Print Name: Adam Ellsworth

Surveyor name

Organization name and address
919 N. Township St  
Sedro Woolley, WA 98284

Telephone number  
360-856-3500

Organization name and address  
Telephone number

Form QQ 49 (05/01) revised 05/07  
1 of 2
Water Type Modification Form  
(For changes to the Water Type Map)

Check all that apply
- Adding streams/lakes
- Removing streams/lakes
- Changing location of streams/lakes
- Changing water type based on physical characteristics
- Changing water type based on protocol survey
- Other. Describe

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<th>5. County</th>
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<th>7. Proposed Water Type</th>
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9. Forest Practices Application Number(s) (if applicable)

10. Change is based on the following (check all that apply):
- [x] Fish found
- [ ] Public water diversion
- [ ] No fish found
- [ ] Fish hatchery diversion
- [x] Physical characteristics
- [ ] Water feature exists, but does not meet WAC 222-16-031 definition.

11. Water levels in the survey area were:
- [ ] Above Normal
- [x] Normal
- [ ] Below Normal

12. The water type break was determined by:
- [ ] Stopping at last observed fish
- [x] Stopping at upper extent of fish habitat
- [ ] Stopping at end of harvest or property boundary
- [x] Other – Describe

Stopped at headwaters of stream

13. Are there any fish passage barriers downstream of the surveyed stream segment(s):
- [ ] Natural barriers
- [ ] Falls
- [ ] Cascades
- [ ] Bedrock chutes
- [ ] Temporary barriers (log jams)
- [ ] Man-made barriers (culverts)

Fish passage barriers were identified by:
- [ ] Maps
- [ ] Field observation
- [ ] Other – describe

14. Is there evidence of mass wasting or scouring events?
- [x] Yes. Describe how these affected current stream channel conditions and fish distribution in the stream.
- [ ] No

**Proponent name and signature**

[Signature]

Print Name: Adam Miller

Surveyor name: Travis Miranda

Organization name and address:
919 N. Township St.
Sedro Woolley, WA 98284

Telephone number:
360-856-3500
UTGARD, LINDA (DNR)

From: Derek Marks [dmarks@tulaliptribes-nsn.gov]
Sent: Monday, March 29, 2010 10:50 AM
To: UTGARD, LINDA (DNR); HUANG, STEVEN (DNR); ALEXANDER, KEVIN (DNR); Brokes, Brendan J (DFW); Penhale, Bob (ECY); Brett Shattuck, Holly Faller; MIRANDA, TRAVIS (DNR)
Subject: RE: WTMF comment before 4-23-10

Concur.

Derek Marks
Timber Fish and Wildlife Manager
The Tulalip Tribes
6406 Marine Drive
Tulalip, WA 98271
(360) 716-4614

From: UTGARD, LINDA (DNR) [mailto:LINDA.UTGARD@dnr.wa.gov]
Sent: Wednesday, March 24, 2010 8:51 AM
To: HUANG, STEVEN (DNR); ALEXANDER, KEVIN (DNR); Brokes, Brendan J (DFW); Penhale, Bob (ECY); Derek Marks; Brett Shattuck; Holly Faller; MIRANDA, TRAVIS (DNR)
Subject: WTMF comment before 4-23-10

Linda Utgard
Natural Resource Tech 2
Forest Practices, NW Region
Washington State Department of Natural Resources (DNR)
360-856-3500
linda.utgard@dnr.wa.gov
www.dnr.wa.gov
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 release¹?
   □ 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.
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.

Does not apply.

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2 "Unsurveyed suitable habitat" refers to potential habitat identified per the NPPU 2007 memo that has been field verified as suitable, but not yet surveyed.
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
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, 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.

☐ 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 managemen: 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 CESF 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
September 24, 2018

TO: Bryent Daugherty, Forester

FROM: Lisa Egtvedt, Wildlife Biologist

SUBJECT: Wildlife Review of the Proposed Texas Ranger Timber Sale

This memo serves as documentation of a region biologist review of the proposed Texas Ranger Timber Sale in sections 4 and 5 of Township 28 North, Range 7 East, and section 33 of Township 29 North, Range 7 East. This proposal is comprised of six units of variable retention harvest in stands that are approximately 40-46 years old (except for Unit 2, which has stands ranging in age from 58 to 85 years old).

I conducted a field review of Units 1 and 2 on April 10, 2018, accompanied by Bryent Daugherty (DNR presales forester for this proposal). On April 13, 2018 I participated in an interdisciplinary pre-application review of several streams associated with this proposal. On April 20, 2018, I conducted an electrofishing survey of one of these streams, accompanied by Bryent.

The primary purpose of the first visit was to verify marbled murrelet habitat delineation work that had been conducted by Bryent Daugherty (who has been trained to conduct habitat delineation). I also provided recommendations regarding the leave tree strategy. Please see the report titled “Electrofishing Protocol Survey Report, Unnamed Tributary to West Fork Woods Creek” for more information regarding this survey and the results.

Based on the site visit, a GIS review, and consultation with the presales forester, I have the following input:

- None of the units or surrounding stands contain suitable marbled murrelet habitat. Unit 1 has 10 scattered platform trees (PFTs) within it, and one more platform tree just outside of its boundary. Unit 2 contains three scattered PFTs, with a number of additional scattered PFTs to the east of the unit (none comprising a suitable habitat block). Unit 3 contains three scattered PFTs, with two more located to the north of the unit. Units 4 and 5 have no PFTs within the units or within 350 feet of the boundaries. There are three PFTs to the south of Unit 6, with none inside the unit. Some of these PFTs have been included in leave tree areas (LTAs) or marked as individual leave trees, but a few of them could not be marked for retention because they are located in areas of planned new road construction or skid trails.

- Other information about leave trees that warrants mentioning includes the following:
  - LTAs have been marked to protect small (less than ¼ acre) wetlands and other wet/sensitive areas, snags and large downed wood, a patch of trees with structurally unique crowns, and some patches of bigleaf maple and black cottonwood (for species and habitat diversity). Some LTAs were marked to
exclude steeper ground from harvest, in order to eliminate the need for additional road building, and some have been marked for distribution.

- A large number of LTAs have been marked on unit edges, and a number of LTAs are somewhat large (near 0.5 acres or larger). I have been provided with the reasons for all of the edge clumps and larger clumps, and have been informed that no special habitat features were neglected as the result of this particular leave tree marking. Therefore, I have accepted this leave tree marking as appropriate for addressing resource concerns, as well as protecting some special features that are in the planning area.

**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 approximately five miles to the east of Units 1 and 2. Due to this distance, no mitigation measures are warranted for this site in association with the proposal.
- A bald eagle nest (which was last confirmed to be active in 2006) is reported approximately 0.6 mile to the northwest of Units 4 and 5. Due to this distance, no mitigation measures are warranted for this site in relation to the 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.
October 23, 2018

Ms. Sara Palmer
State Lands Archaeologist
WA State Dept. of Natural Resources
1111 Washington Street SE, Mail Stop 47014
Olympia, WA 98504-7014

In future correspondence please refer to:
Project Tracking Code: 2018-08-06420
Property: Texas Ranger Timber Sale, Northwest Region
Re: Not Eligible

Dear Ms. Palmer:

Thank you for contacting the Washington State Historic Preservation Officer (SHPO) and Department of Archaeology and Historic Preservation (DAHP). I have reviewed the information submitted regarding archaeological site 45SN703, a logging railroad grade. The archaeological resource has been reviewed on behalf of the SHPO under provisions of state and federal law.

Research indicates that this property is not currently listed in the Washington Heritage Register or National Register of Historic Places. I agree with your recommendation that the property is not eligible for listing in the National Register of Historic Places.

As a result of our concurrence, further contact with DAHP on this matter is not necessary. However, if new information on the property becomes available and/or if the project scope of work or location changes significantly, please resume consultation as our assessment may be revised. Also, if any archaeological resources are uncovered during construction, please halt work immediately in the area of discovery and contact the appropriate Native American Tribes and DAHP for further consultation.

Thank you for the opportunity to review and comment. Please ensure that the DAHP Project Number (a.k.a. Project Tracking Code) is shared with any hired cultural resource consultants and is attached to any communications or submitted reports. Should you have any questions, please feel free to contact me.

Sincerely,

[Signature]

Matthew Sterner, M.A.
Transportation Archaeologist
(360) 586-3082
matthew.sterner@dahp.wa.gov

2816777
Daugherty, Bryent (DNR)

From: Kerry Lyste <klyste@stillaguamish.com>
Sent: Monday, September 24, 2018 4:44 PM
To: Daugherty, Bryent (DNR)
Subject: RE: DNR Timber Sale Proposal/ Cultural Resources

OK – thanks!

Best, KL

Kerry Lyste
THPO/GIS Database Administrator;
Stillaguamish Tribe of Indians
3322 236th Street NE, Arlington, WA 98223
Mailing Address: PO Box 277, Arlington, WA 98223
Ph: 360-572-3072 Fax: 360-659-3113

---

From: Daugherty, Bryent (DNR) [mailto:Bryent.Daugherty@dnr.wa.gov]
Sent: Monday, September 24, 2018 4:41 PM
To: Kerry Lyste <klyste@stillaguamish.com>
Subject: RE: DNR Timber Sale Proposal/ Cultural Resources

Yes, the trail starts in the southeast corner of section 33 and follows north near the edge of section 34. It is around 500-600 feet away from the eastern corner of unit 2.

Bryent Daugherty
Pre-Sales Forester
Cascade District
Washington State Department of Natural Resources
(541)908-8026
bryent.daugherty@dnr.wa.gov

---

From: Kerry Lyste [mailto:klyste@stillaguamish.com]
Sent: Monday, September 24, 2018 4:24 PM
To: Daugherty, Bryent (DNR) <Bryent.Daugherty@dnr.wa.gov>
Cc: Tracey Boser <traceyboser@stillaguamish.com>; Moon, John (DNR) <John.Moon@dnr.wa.gov>; Palmer, Sara (DNR) <Sara.Palmer@dnr.wa.gov>
Subject: RE: DNR Timber Sale Proposal/ Cultural Resources

2816777
Hi Bryent,

So the trail is from 250-500 feet at the south of Section 33? We have no further comments on the trail or rail grade.

Best, KL

Kerry Lyste
THPO/GIS Database Administrator;
Stillaguamish Tribe of Indians
3322 236th Street NE, Arlington, WA 98223
Mailing Address PO Box 277, Arlington, WA 98223
Ph: 360-572-3072 Fax: 360-659-3113

From: Daugherty, Bryent (DNR) [mailto:Bryent.Daugherty@dnr.wa.gov]
Sent: Monday, September 24, 2018 1:33 PM
To: Kerry Lyste <klyste@stillaguamish.com>
Cc: Tracey Boser <traceyboser@stillaguamish.com>; Moon, John (DNR) <John.Moon@dnr.wa.gov>; Palmer, Sara (DNR) <Sara.Palmer@dnr.wa.gov>
Subject: FW: DNR Timber Sale Proposal/ Cultural Resources

Hello Kerry,

We have reached out to our cultural resource specialist to further discuss the potential historical trail running to the east of unit 2 within the Texas Ranger timber sale. Attached is a map showing the potential trail that you might be referring to. We did not observe any indication of this trail within the harvest units. We did record and evaluate a historical logging railroad grade within unit 2, which is currently in for review with DAHP (Department of Archeological and Historic Preservation). Also attached is the site record for the rail grade. Let us know if you have any additional information or concerns.

Thank you,

Bryent Daugherty
Pre-Sales Forester
Cascade District
Washington State Department of Natural Resources
(541)308-8026
bryent.daugherty@dnr.wa.gov
From: Palmer, Sara (DNR)
Sent: Monday, September 24, 2018 10:36 AM
To: Daugherty, Bryant (DNR) <Bryant.Daugherty@dnr.wa.gov>
Subject: RE: DNR Timber Sale Proposal/ Cultural Resources

Hi Bryant, as we discussed on the phone, I believe this on the attached map is the trail Kerry is referring to. We did not observe any indication of this trail in the harvest units. We did record and evaluate some historical logging railroad grade as part of this sale. That evaluation is currently in for review with DAHP and you are welcome to share our site record for that with Kerry as well.

Sara E. Palmer
State Lands Archaeologist
Forest Resources Division
Washington State Department of Natural Resources
360 902-1281 (desk)
360 688-4825 (cell)
1111 Washington St. SE, MS47014
Olympia, WA 98504-7014

CONFIDENTIALITY NOTICE:
This e-mail message and any attachments may contain confidential information that is exempt from disclosure under the Public Records Act (RCW 42.56.300). Please contact me before sharing this communication or converting it into other formats.

From: Daugherty, Bryant (DNR)
Sent: Monday, September 24, 2018 10:20 AM
To: Palmer, Sara (DNR) <Sara.Palmer@dnr.wa.gov>
Subject: FW: DNR Timber Sale Proposal/ Cultural Resources

From: Kerry Lyste [mailto:klyste@stillaguamish.com]
Sent: Friday, September 14, 2018 4:09 PM
To: Daugherty, Bryant (DNR) <Bryant.Daugherty@dnr.wa.gov>
Cc: Tracey Boser <traceyboser@stillaguamish.com>
Subject: RE: DNR Timber Sale Proposal/ Cultural Resources

Hi Bryant,

Thanks for notification on this sale. The only area we would have concerns on would be unit 2 which appears to have a historic trail running through to the east.

Best regards, KL

Kerry Lyste
THPO/GIS Database Administrator;
Stillaguamish Tribe of Indians
3322 236th Street NE, Arlington, WA 98223
Mailing Address: PO Box 277, Arlington, WA 98223
Ph:605-572-3072     Fax: 360-659-3413

2816777
From: Daugherty, Bryent [DNR] [mailto:Bryent.Daugherty@dnr.wa.gov]
Sent: Friday, September 14, 2018 2:10 PM
To: Kerry Lyste <klyste@stillaguamish.com>
Subject: DNR Timber Sale Proposal/ Cultural Resources

Dear Kerry,

The Department of Natural Resources is in the late stages of planning the “Texas Ranger” timber sale on state trust lands between Woods Creek Road and the West Fork Woods Creek. There are six harvest units planned for this proposal, totaling 157.9 acres.

As part of the presales process, we identify cultural resources in the area and plan protection measures accordingly. We are herein soliciting cultural information and concerns from the Stillaguamish Tribe of Indians. Please reference the enclosed map which shows the location and boundaries of the proposed units. The unit boundaries represent gross areas that may be adjusted.

If you have any questions, concerns, or information about cultural resources that could be affected by our proposed activity, please contact me.

Sincerely,

Bryent Daugherty
Pre-Sales Forester
Cascade District
Washington State Department of Natural Resources
(541)908-8026
bryent.daugherty@dnr.wa.gov
Forest Practices Application/Notification
Notice of Decision

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

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

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

Conditions on Approval / Reasons for Disapproval
No additional conditions.

FOR YOUR INFORMATION:

Please notify DNR Northwest Region Office (360-655-3500) 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: 1/2/2019

Copies to: [X] Landowner, Timber Owner and Operator.
Issued in person: [X] Landowner [ ] Timber Owner [ ] Operator By:
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.elahto.wa.gov/

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

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

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

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.

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 ________________, WA, ______ (date) ______ (post office location)
postage paid, a true and accurate copy of this document. Notice of Decision FPA # 2816

__________________
(L Utgard)
(Printed name)

__________________
(Signature)
<table>
<thead>
<tr>
<th>DATE</th>
<th>DOCUMENT</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>5/10/2019</td>
<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.

30-087378 TEXAS RANGER

FPA/N Number: 2816777  
Section(s): 3,4,5,8;33  
Township: 28;29N  
Range: 07E

Original Landowner (Signature):  
Original Landowner (Printed): COURTNEY COLEMAN  
Date: 5/10/19

<table>
<thead>
<tr>
<th>New Operator – Complete this section <strong>only</strong> if you are:</th>
</tr>
</thead>
<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>
</tbody>
</table>

Legal Name of New Operator: (Print)  
HAMPTON TREE FARMS, LLC.

Phone: 503-365-8400

Email:  

**New Operator Signature:**

<table>
<thead>
<tr>
<th>New Landowner – Complete this section <strong>only</strong> if you are transferring your FPA to a new landowner</th>
</tr>
</thead>
<tbody>
<tr>
<td>□ No  □ Yes  Are you a small forest landowner per RCW 76.09.450 <em>(if yes, continue to question below)</em></td>
</tr>
<tr>
<td>□ No  □ Yes  Is your entire proposed harvest area on a single contiguous ownership consisting of one or more parcel(s)?</td>
</tr>
</tbody>
</table>

Legal Name of New Landowner: (Print)

Phone:  

Email:  

**New Landowner Signature:**

<table>
<thead>
<tr>
<th>New Timber Owner – Complete this section <strong>only</strong> if you are transferring your timber rights</th>
</tr>
</thead>
<tbody>
<tr>
<td>Legal Name of Timber Owner: (Print)</td>
</tr>
<tr>
<td>HAMPTON TREE FARMS, LLC.</td>
</tr>
<tr>
<td>Phone: 503-365-8400</td>
</tr>
<tr>
<td>Email:</td>
</tr>
</tbody>
</table>

Forest Tax Reporting Account Number: (Contact Dept. of Revenue at: 1-800-548-8829)  
800 005 843

**New Timber Owner Signature:**

**Received by:**  
(DNR Forest Practices Staff Signature) 11/01/2017
<table>
<thead>
<tr>
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<tbody>
<tr>
<td>5/10/2019</td>
<td>Transfer Form</td>
<td>Change of Timber Owner &amp; Operator</td>
</tr>
<tr>
<td>2-3-2020</td>
<td></td>
<td>Change of 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.

**FPA/N Number:** 2816777  
**Section(s):** 458  
**Township:** 28N  
**Range:** 4E

**Original Landowner (Signature):**  
**Original Landowner (Printed):** CORINN COLEMAN  
**Date:** 2/3/2020

<table>
<thead>
<tr>
<th>New Operator</th>
<th>Complete this section <strong>only</strong> if you are:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Changing an operator for:</td>
<td>Road construction</td>
</tr>
<tr>
<td>Adding an operator for:</td>
<td>Road construction</td>
</tr>
</tbody>
</table>

**Legal Name of New Operator (Print):** Cascade HFE  
**Mailing Address:** PO Box 63  
**Phone:** 425-360-7967  
**Email:** cascadehfe@gmail.com  
**New Operator Signature:**  
**Date:** 01-14-2020

<table>
<thead>
<tr>
<th>New Landowner</th>
<th>Complete this section <strong>only</strong> if you are transferring your FPA to a new landowner</th>
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<tbody>
<tr>
<td>No</td>
<td>Yes Are you a small forest landowner per RCW 76.09.450 (if yes, continue to question below)</td>
</tr>
<tr>
<td>No</td>
<td>Yes Is your entire proposed harvest area on a single contiguous ownership consisting of one or more parcel(s)?</td>
</tr>
</tbody>
</table>

**Legal Name of New Landowner (Print):**  
**Mailing Address:**  
**Phone:**  
**Email:**  
**New Landowner Signature:**  
**Date:**

<table>
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<tr>
<th>New Timber Owner</th>
<th>Complete this section <strong>only</strong> if you are transferring your timber rights</th>
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<tr>
<td>Legal Name of Timber Owner (Print):</td>
<td>Mailing Address:</td>
</tr>
<tr>
<td>Phone:</td>
<td>Email:</td>
</tr>
<tr>
<td>Forest Tax Reporting Account Number: (Contact Dept. of Revenue at: 1-800-548-8829)</td>
<td></td>
</tr>
</tbody>
</table>

**New Timber Owner Signature:**  
**Date:**

**Received by:**  
(DNR Forest Practices Staff Signature) 11/01/2017  
**Date:** 2/3/20
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<tr>
<td>2-3-2020</td>
<td>&quot; &quot;</td>
<td>Changed operator</td>
</tr>
<tr>
<td>3-10-2020</td>
<td>&quot; &quot;</td>
<td>Change of operator</td>
</tr>
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Forest Practices Application/Notification

NOTICE OF TRANSFER

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

FPA/N Number: 2816701  Section(s): 45,6,9  Township: 30  Range: 8

Original Landowner (Signature):

Original Landowner (Printed): COURTNEY COLEMAN  Date: 3/5/2020

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

Legal Name of New Operator: (Print)  
Saxon Contracting  
Phone: 360-815-6819
Email: bigyour@gmail.com

New Operator Signature:  
Date: 2/19/20

---

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

<table>
<thead>
<tr>
<th>No</th>
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Are you a small forest landowner per RCW 76.09.450 (if yes, continue to question below)

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</tbody>
</table>

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:
322 Rowland Rd.
Sedro Woolley, WA 98284

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: L. Utgard  
(DNR Forest Practices Staff Signature) 11/01/2017

Date: 3/6/20