Purpose of checklist:

Governmental agencies use this checklist to help determine whether the environmental impacts of your proposal are significant. This information is also helpful to determine if available avoidance, minimization or compensatory mitigation measures will address the probable significant impacts or if an environmental impact statement will be prepared to further analyze the proposal.

Instructions for applicants:

This environmental checklist asks you to describe some basic information about your proposal. Please answer each question accurately and carefully, to the best of your knowledge. You may need to consult with an agency specialist or private consultant for some questions. You may use "not applicable" or "does not apply" only when you can explain why it does not apply and not when the answer is unknown. You may also attach or incorporate by reference additional studies reports. Complete and accurate answers to these questions often avoid delays with the SEPA process as well as later in the decision-making process.

Questions in italics are supplemental to Ecology’s standard environmental checklist. They have been added by the DNR to assist in the review of state forest land proposals. Adjacency and landscape/watershed-administrative-unit (WAU) maps for this proposal are available on the DNR internet website at http://www.dnr.wa.gov/sepa. These maps may also be reviewed at the DNR regional office responsible for the proposal. This checklist is to be used for SEPA evaluation of state forest land activities.

The checklist questions apply to all parts of your proposal, even if you plan to do them over a period of time or on different parcels of land. Attach any additional information that will help describe your proposal or its environmental effects. The agency to which you submit this checklist may ask you to explain your answers or provide additional information reasonably related to determining if there may be significant adverse impact.

Instructions for Lead Agencies:

Additional information may be necessary to evaluate the existing environment, all interrelated aspects of the proposal and an analysis of adverse impacts. The checklist is considered the first but not necessarily the only source of information needed to make an adequate threshold determination. Once a threshold determination is made, the lead agency is responsible for the completeness and accuracy of the checklist and other supporting documents.

Use of checklist for nonproject proposals:

For nonproject proposals (such as ordinances, regulations, plans and programs), complete the applicable parts of sections A and B plus the SUPPLEMENTAL SHEET FOR NONPROJECT ACTIONS (part D). Please completely answer all questions that apply and note that the words "project," "applicant," and "property or site" should be read as "proposal," "proponent," and "affected geographic area," respectively. The lead agency may exclude (for non-projects) questions in Part B - Environmental Elements—that do not contribute meaningfully to the analysis of the proposal.
A. BACKGROUND

1. Name of proposed project, if applicable:

   Timber Sale Name: TRUE BLUE
   Agreement # 30-102673

2. Name of applicant: Washington Department of Natural Resources

3. Address and phone number of applicant and contact person:
   DNR Northwest Region
   919 North Township Street
   Sedro Woolley, WA 98284
   (360) 856-3500
   Contact person: Laurie Bergvall

4. Date checklist prepared: 08/18/2021

5. Agency requesting checklist: Washington Department of Natural Resources

6. Proposed timing or schedule (including phasing, if applicable):
   a. Auction Date:
      05/25/2022
   b. Planned contract end date (but may be extended):
      03/31/2024
   c. Phasing:
      None.

7. Do you have any plans for future additions, expansion, or further activity related to or connected with this proposal? If yes, explain.
   ☐ No, go to question 8. ☒ Yes, identify any plans under A-7-a through A-7-d:
   a. Site Preparation:
      Variable Retention Harvest (VRH) areas may be treated with herbicides prior to planting. Assessment for treatment will occur after completion of harvest.
   b. Regeneration Method:
      Hand plant conifer seedlings within two years after completion of harvest in VRH portions of the proposal.
   c. Vegetation Management:
      Treatment to be assessed in 3 to 5 years. Competing vegetation may be treated by manual cutting and/or herbicides.
   d. Thinning:
      Treatment to be assessed in 10 to 15 years for pre-commercial thinning in the VRH units. A commercial thinning is possible in 25 to 45 years in the VRH units.
   e. Roads:
      The MM-ML, MM-22, MM-2217, and MM-41 roads will continue to be used for future timber sales and forest management activities. Routine road maintenance will be conducted at periodic intervals.
   f. Rock Pits and/or Sale:
      The McCoy pit will continue to be used for future timber sale road construction and road maintenance activities. Onsite rock may be used for road construction, if rock sources are discovered along haul routes or within the sale area.
   e. Other:
      Firewood from piled material, if available, may be sold following the completion of harvest activities. Road maintenance assessments will be conducted and may include periodic ditch and culvert cleanout, and grading as necessary.

8. List any environmental information you know about that has been prepared, or will be prepared, directly related to this proposal. Note: All documents are available upon request at the DNR Region Office.

True Blue, 12/21/2021
☒ 303 (d) – listed water body in WAU:
  ☒ temp
  ☐ sediment
  ☐ completed TMDL (total maximum daily load)

☐ Landscape plan:
☒ Watershed analysis: Hutchinson
☐ Interdisciplinary team (ID Team) report:
☒ Road design plan: True Blue Road Plan
☒ Wildlife report:
☐ Geotechnical report:
☒ Other specialist report(s): West Side Old Growth Assessment, dated 5/7/2020
☐ Memorandum of understanding (sportsmen’s groups, neighborhood associations, tribes, etc.):
☒ Rock pit plan: True Blue Road Plan

Referenced documents may be obtained at the Region office responsible for this proposal.

9. Do you know whether applications are pending for governmental approvals of other proposals directly affecting the property covered by your proposal? If yes, explain.
None known.

10. List any government approvals or permits that will be needed for your proposal, if known.
☒ FPA # 2818382 ☐ FPHP ☐ Board of Natural Resources Approval
☒ Burning permit ☐ Shoreline permit ☐ Existing HPA
☐ Other:

11. Give brief, complete description of your proposal, including the proposed uses and the size of the project and site. There are several questions later in this checklist that ask you to describe certain aspects of your proposal. You do not need to repeat those answers on this page. (Lead agencies may modify this form to include additional specific information on project description.)

  a. Complete proposal description:

    This is a multi-unit variable retention harvest (VRH) with two right-of-way (R/W) segments. The total proposed harvest is comprised of 46.1 acres, with an estimated harvest volume of 1,516 MBF of timber.

    Approximately 77 acres were considered for this proposal; this has been reduced to 47.3 gross acres due to no-harvest stream and wetland buffers, potentially unstable areas, and old growth forest. The resulting harvest area 46.1 net harvest acres after deducting leave tree area acres.

    Prior to calculating gross harvest acres, the existing road area was removed using ortho photos and LiDAR.

  b. Describe the stand of timber pre-harvest (include major timber species and origin date), type of harvest and overall unit objectives.

    Pre-harvest Stand Description:

    | Unit | Origin Date | Major Timber Species | Type of Harvest |
    |------|-------------|----------------------|----------------|
    | 1    | 1921        | DF, RC, WH           | VRH            |
    | 2    | 1951        | DF, WH, RC           | VRH            |

    Overall Unit Objectives:
    • The primary objective is to generate revenue for trust lands.
    • Protect water quality, maintain site productivity, minimize impacts to soils and maintain/restore wildlife habitat.
    • This proposal meets or exceeds all guidelines set forth in the DNR Habitat Conservation Plan (HCP), Policy for Sustainable Forests, and Forest Practices Rules and Regulations.
c. Describe planned road activity. Include information on any rock pits that will be used in this proposal. See associated forest practice application (FPA) for maps and more details.

<table>
<thead>
<tr>
<th>Type of Activity</th>
<th>How Many</th>
<th>Length (feet) (Estimated)</th>
<th>Acres (Estimated)</th>
<th>Fish Barrier Removals (#)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Construction</td>
<td>2,005</td>
<td>0.74</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Reconstruction</td>
<td>0</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Maintenance</td>
<td>7,769</td>
<td>2.85</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Abandonment</td>
<td>2,005</td>
<td>0.74</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Bridge Install/Replace</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Stream Culvert Install/Replace (fish)</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td></td>
</tr>
<tr>
<td>Stream Culvert Install/Replace (no fish)</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td></td>
</tr>
<tr>
<td>Cross-Drain Install/Replace</td>
<td>6</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

12. Location of the proposal. Give sufficient information for a person to understand the precise location of your proposed project, including a street address, if any, and section, township, and range, if known. If a proposal would occur over a range of area, provide the range or boundaries of the site(s). Provide a legal description, site plan, vicinity map, and topographic map, if reasonably available. While you should submit any plans required by the agency, you are not required to duplicate maps or detailed plans submitted with any permit applications related to this checklist (See “WAU Map(s)” and “Timber Harvest Unit Adjacency Map(s)” as referenced on the DNR website: [http://www.dnr.wa.gov/sepa](http://www.dnr.wa.gov/sepa). Click on the DNR region of this proposal under the Topic “Current SEPA Project Actions - Timber Sales.” Proposal documents also available for review at the DNR Region Office.)

a. Legal description:
   Harvest area and road maintenance:
   Township 38 North, Range 06 East Sections 31 and 32
   Rockpit:
   Township 38 North, Range 05 East, Section 36

b. Distance and direction from nearest town:
   Proposal is located 6 miles east from Acme, WA

13. Cumulative Effects

a. Briefly describe any known environmental concerns that exist regarding elements of the environment in the associated WAU(s).
   (See WAC 197-11-444 for what is considered an element of the environment)
   This proposal may temporarily affect elements of the environment to varying degrees including Geology, Surface water movement/quantity/quality, Soils, Air quality, Noise, Aesthetic, Plants and Animals, and Recreation.

b. Briefly describe existing plans and programs (i.e. the HCP, DNR landscape plans, retention tree plans) and current forest practice rules that provide/require mitigation to protect against potential impacts to environmental concerns listed in question A-13-a.
   This proposal meets or exceeds all guidelines set forth in the DNR Habitat Conservation Plan (HCP), Policy for Sustainable Forests, and Forest Practices Rules and Regulations, the Hutchinson Watershed Analysis. These documents provide guidance for mitigation or protection/avoidance of natural streams, unstable slopes and sensitive habitats where appropriate.

The Department’s Habitat Conservation Plan (HCP) outlines strategies to protect federally listed threatened and endangered species, and species that are in danger of being listed in the future, as well as uncommon habitat types found on forest lands in western Washington. HCP riparian buffers intended to protect salmon and trout habitat were applied to this proposal, and will be applied to all future sales in the vicinity while the HCP remains valid. The HCP identifies large, structurally unique trees and snags as uncommon habitats that need to be protected. An average of 8-15 trees per acre will be left in the proposed harvest area. These trees will function for future snag and large structurally unique tree recruitment. The proposal has been evaluated and is in compliance with the Long Term Conservation Strategy for Marbled Murrelets.

Development of older forests is an expected outcome of the 1997 Trust Lands Habitat Conservation Plan (HCP), and a policy objective stated in DNR’s Policy for Sustainable Forests. Landscape assessments made in May 2021, demonstrate that through implementation of the HCP and other Policies and laws, older forest targets will be met in conservation areas over time. These conservation areas include identified long-term forest cover under the marbled murrelet long-term conservation strategy, riparian areas, areas conserved under the multispecies conservation strategy, potentially unstable slopes, spotted owl nest patches, and spotted owl habitat that must be maintained to comply with the northern spotted owl
conservation strategy (within NRF and South Puget Planning Unit dispersal management areas). The North Puget HCP Planning Unit will meet at least 10% older forest within conservation areas by 2070.

Briefly describe any specific mitigation measures proposed, in addition to the mitigation provided by plans and programs listed under question A-13-b.

- Retaining Riparian Management Zones (RMZs) to protect water quality, stream bank integrity, stream temperatures, and provide down woody debris. RMZs will develop older riparian forest characteristics that, in combination with other strategies, will help support older riparian forest dependent wildlife and aquatic species.
- Evaluating the proposal for potential slope instability, and excluding areas that exhibited indicators of potentially unstable slopes.
- Analyzing, designing, and constructing roads to minimize effects on the environment.
- Remote and field reviews were conducted to ensure that all identified potentially unstable slopes that were interpreted as having potential to adversely impact public resources or public safety, were excluded from the harvest areas.
- Rule-identified landforms with interpreted delivery potential, were excluded from harvest.
- Cross-drains and ditch-outs will be utilized to minimize the potential for mass wasting and slope failures associated with poor drainage by dispersing water onto stable forest floor.
- Skid trails may be water barred post harvesting activities, if necessary to avoid concentrating surface water runoff.

See B.1.h.

d. Based on the answers in questions A-13-a through A-13-c, is it likely potential impacts from this proposal could contribute to any environmental concerns listed in question A-13-a?

No.

e. Complete the table below with the reasonably foreseeable future activities within the associated WAU(s) (add more lines as needed). Future is generally defined as occurring within the next 7 years. This data was obtained from DNR’s Land Resource Manager System on the date of processing this checklist and may be subject to change.

<table>
<thead>
<tr>
<th>WAU Name</th>
<th>Total WAU Acres</th>
<th>DNR-managed WAU Acres</th>
<th>Acres of DNR proposed even-aged harvest in the future</th>
<th>Acres of DNR proposed uneven-aged harvest in the future</th>
<th>Acres of proposed harvest on non-DNR-managed lands currently under active FP permits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HUTCHINSON CREEK</td>
<td>14,060</td>
<td>6,182</td>
<td>553</td>
<td>442</td>
<td>181</td>
</tr>
</tbody>
</table>

Other management activities, such as stand and road maintenance, will likely occur within the associated WAU(s).

B. ENVIRONMENTAL ELEMENTS

1. Earth

a. General description of the site (check one):
   - Flat, Rolling, Hilly, Steep Slopes, Mountainous, Other:

1. General description of the associated WAU(s) or sub-basin(s) within the proposal (landforms, climate, elevations, and forest vegetation zone).

<table>
<thead>
<tr>
<th>WAU:</th>
<th>HUTCHINSON CREEK</th>
</tr>
</thead>
<tbody>
<tr>
<td>WAU Acres:</td>
<td>14,060</td>
</tr>
<tr>
<td>Mean Elevation:</td>
<td>1,510 ft.</td>
</tr>
<tr>
<td>Average Precipitation:</td>
<td>63 in./year</td>
</tr>
<tr>
<td>Primary Forest Vegetation Zone:</td>
<td>Western Hemlock</td>
</tr>
</tbody>
</table>

2. Identify any difference between the proposal location and the general description of the WAU or sub-basin(s).
This proposal is a representative example of the WAUs at the same elevation and aspect.

b. What is the steepest slope on the site (approximate percent slope)?
   - 80%
c. What general types of soils are found on the site (for example, clay, sand, gravel, peat, muck)? If you know the classification of agricultural soils, specify them and note any agricultural land of long-term commercial significance and whether the proposal results in removing any of these soils.

*Note:* The following table is created from state soil survey data. It is an overview of general soils information for the soils found in the sale area. The actual soil conditions in the sale area may vary considerably based on land-form shapes, presence of erosive situations, and other factors.

<table>
<thead>
<tr>
<th>State Soil Survey #</th>
<th>Soil Texture</th>
</tr>
</thead>
<tbody>
<tr>
<td>1235</td>
<td>GRAVELLY LOAM</td>
</tr>
<tr>
<td>3895</td>
<td>GRAVELLY SILT LOAM</td>
</tr>
<tr>
<td>7315</td>
<td>V.GRAVELLY LOAM</td>
</tr>
</tbody>
</table>

d. Are there surface indications or history of unstable soils in the immediate vicinity? If so, describe.

☐ No, go to question B-1-e.
☒ Yes, briefly describe potentially unstable slopes or landforms in or around the area of the proposal site. For further information, see question A-8 for related slope stability documents and question A-10 for the FPA number(s) associated with this proposal.

Bedrock hollows and shallow failures are known in the immediate vicinity. A relic mountain-scale bedrock deep-seated landslide with inset landslides is also present. A steep, convergent area has been bounded out of the harvest area with a non-tradeable leave tree area.

The statewide landslide inventory (LSI) screening tool was reviewed using GIS. LSI polygons #13588 and #13587 are located in the vicinity of this proposal. However, the proposal is completely encompassed by LSI polygon #19463.

This landslide database is maintained by the Washington State Department of Natural Resources, Forest Practices Division. The LSI includes landslides mapped during many different projects including large-scale geologic mapping, watershed analyses, landscape planning, and landslide hazard zonation, in addition to other case studies and mapping efforts. A large majority of landslides identified by these projects are mapped by remote review with minimal field verification. In addition, dormant and ancient deep-seated landslides are mapped in many projects included in the LSI. A large number of the remotely identified landslides and deep-seated features have been mapped with a questionable, probable, or unknown certainty. As a result, the LSI database is meant to be used as a screening tool and field verification is a necessary step in confirming the absence, presence, and extent of mapped features, as well as their actual level of activity/instability.

1) Does the proposal include any management activities proposed on potentially unstable slopes or landforms?
☐ No  ☒ Yes, describe the proposed activities:

The entire proposal is located within the mapped LSI polygon #19463 / WGS #9329. This is a relic mountain-scale bedrock deep-seated landslide.

2) Describe any slope stability protection measures (including sale boundary location, road, and harvest system decisions) incorporated into this proposal.

This proposal has been reviewed by a licensed engineering geologist (a Forest Practice’s qualified expert) and their recommendations have been incorporated into the proposal.

Bedrock hollows, shallow landslide, steep convergent areas with potential to deliver to typed waters, and any other areas exhibiting signs of recent slope movement with potential to deliver to typed waters have been excluded from harvest.

Roads were designed to minimize the average ground-based yarding distance to 500 feet or less and to access landing locations for areas requiring cable yarding. Care has been taken to avoid concentrating ditch water onto sensitive slopes located outside of the harvest boundaries.

See B.1.h.

e. Describe the purpose, type, total area, and approximate quantities and total affected area of any filling, excavation, and grading proposed. Indicate source of fill.

Approx. acreage new roads: 0.74 ac

True Blue, 12/21/2021
Approx. acreage new landings: 1.5 ac
Fill Source: Native material

Road construction will utilize standard cut and fill methodology to obtain grade and alignment. Native soil and rock will be excavated from the road prism and used for fill in the sub-grade and over cross drain relief culverts.

f. Could erosion occur as a result of clearing, construction, or use? If so, generally describe.
Yes. Some erosion could occur as a result of building new roads, installing culverts, and hauling timber.

g. About what percent of the site will be covered with impervious surfaces after project construction (for example, asphalt or buildings)?
Approximately 2% of the site will remain as gravel roads.

h. Proposed measures to reduce or control erosion, or other impacts to the earth, if any:
(Include protection measures for minimizing compaction or rutting.)
The following timing and access restrictions will be applied to the project:
- No road construction or timber or rock haul will occur from November 1 to March 31 unless the operator formulates an approved plan to prevent road sediment from entering surface waters.
- No ground-based yarding operations will occur from November 1 to March 31 OR during times of heavy precipitation and/or soil saturation unless the operator formulates an approved plan to prevent erosion and channeling water towards sensitive slopes and typed waters.

The following strategies will be applied to proposed road construction/maintenance:
- Soils that are exposed by road work will be revegetated the year roads are constructed.
- On newly constructed roads, cross-drain culverts will be adequate in size and frequency to prevent concentration of road runoff to the extent that it would cause gullying of stream drainages. Cross drain culverts will be placed in order to minimize the amount of ditch water that flows into surface waters. Riprap will be utilized at culvert inlets and outlets as necessary to prevent erosion at these vulnerable points. Existing roads will be maintained so that drainage structures remain functional.
- Storm patrols will be conducted as necessary on existing and newly constructed roads to identify and address potential erosion problems.

The following strategies will be applied to the proposed timber harvest:
- Riparian management zone (RMZ) buffers as described in B.3.a.1.b. and B.3.a.1.c., will be retained.
- The leading end of logs will be suspended when being yarded to reduce soil disturbance.
- Equipment trails will be water-barred and/or grass-seeded as necessary.
- Temporary crossing structures will be used where equipment crossings in typed waters cannot be avoided.
- Untethered, ground-based harvest and yarding equipment will be restricted to operating on sustained slopes of 35% or less. Untethered self-leveling equipment designed to minimize ground impact may operate on sustained slopes 45% or less. Tethered equipment may operate on steeper slopes than 45%.

2. Air
a. What types of emissions to the air would result from the proposal during construction, operation, and maintenance when the project is completed? If any, generally describe and give approximate quantities if known.
Minor amounts of engine exhaust from logging and road construction equipment and dust from vehicle traffic on roads will be emitted during proposed activities. If landing debris is burned after harvest is completed, smoke will be generated. There will be no emissions once the proposal is complete.

b. Are there any off-site sources of emissions or odor that may affect your proposal? If so, generally describe.
None known.

c. Proposed measures to reduce or control emissions or other impacts to air, if any:
If landing debris is burned, it will be in accordance with Washington State’s Smoke Management Plan. A burn permit will be obtained before burning occurs.

3. Water
a. Surface Water:
1) Is there any surface water body on or in the immediate vicinity of the site (including year-round and seasonal streams, saltwater, lakes, ponds, wetlands)? If yes, describe type and provide names. If appropriate, state what
stream or river it flows into. (See “WAU Map(s)” and “Timber Harvest Unit Adjacency Map(s)” as referenced on the DNR website: http://www.dnr.wa.gov/sepa. Click on the DNR region of this proposal under the Topic “Current SEPA Project Actions - Timber Sales.” Proposal documents also available for review at the DNR Region Office.)

☐ No ☒ Yes, describe in 3-a-1-a through 3-a-1-c below

a. Downstream water bodies:
South Fork of the Nooksack via Hutchinson Creek.

b. Complete the following riparian & wetland management zone table:

<table>
<thead>
<tr>
<th>Wetland, Stream, Lake, Pond, or Saltwater Name (if any)</th>
<th>Water Type</th>
<th>Number (how many?)</th>
<th>Avg RMZ/WMZ Width in feet (per side for streams)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Unnamed open water wetland (3 ac)</td>
<td>3</td>
<td>1</td>
<td>125’</td>
</tr>
<tr>
<td>Unnamed</td>
<td>3</td>
<td>1</td>
<td>125’</td>
</tr>
<tr>
<td>Unnamed</td>
<td>4</td>
<td>7</td>
<td>100’</td>
</tr>
<tr>
<td>Unnamed</td>
<td>5</td>
<td>4</td>
<td>0’</td>
</tr>
</tbody>
</table>

c. List any additional RMZ/WMZ protection measures including silvicultural prescriptions, road-related RMZ/WMZ protection measures and wind buffers.
No harvest will occur in the RMZs with the exception of right-of-way clearing. All new and existing roads through RMZs will be monitored during hauling to ensure ditchwater and road runoff will not enter or otherwise adversely affect water quality or RMZ function. Corrective action such as additional relief culverts, straw bales, silt fencing, rock-lined ditches, and sediment traps will be installed/constructed as necessary.

2) Will the project require any work over, in, or adjacent to (within 200 feet) the described waters? If yes, please describe and attach available plans.

☐ No ☒ Yes (See RMZ/WMZ table above and timber sale maps which are available on the DNR website: http://www.dnr.wa.gov/sepa. Timber sale maps are also available at the DNR region office.)

Description (include culverts):
Timber will be felled immediately adjacent to the RMZs and in road right-of-way as described in the table in B.3.a.1.b. Timber will be felled away from streams where safely possible to avoid damage to residual trees, the inner zones, and to protect stream bank integrity. Timber will be felled and yarded away from Type 5 streams where safely possible. All timber will have the leading end of the logs elevated during yarding to reduce soil disturbance near these features. There are 30-foot equipment limitation zones on all typed waters within the proposal.

3) Estimate the amount of fill and dredge material that would be placed in or removed from surface water or wetlands and indicate the area of the site that would be affected. Indicate the source of fill material.
None.

4) Will the proposal require surface water withdrawals or diversions? Give general description, purpose, and approximate quantities if known. (Include diversions for fish-passage culvert installation.)

☒ No ☐ Yes, description:

5) Does the proposal lie within a 100-year floodplain? If so, note location on the site plan.

☒ No ☐ Yes, describe activity and location:

6) Does the proposal involve any discharges of waste materials to surface waters? If so, describe the type of waste and anticipated volume of discharge.
It is not likely that any waste materials will be discharged into the surface water(s). However, minor amounts of oil, fuel, and other lubricants may inadvertently be discharged to the adjacent surface water(s) as a result of heavy equipment use or mechanical failure. No lubricants will be disposed of on-site.

7) Is there a potential for eroded material to enter surface water as a result of the proposal considering the protection...
measures incorporated into the proposal’s design?

☐ No  ☒ Yes, describe:  
Soils and terrain susceptible to surface erosion are generally located on slopes steeper than 70%. The potential for eroded material to enter surface water is minimized due to the erosion control measures and operational procedures outlined in B-1-h.

8) What are the approximate road miles per square mile in the associated WAU(s)?

HUTCHINSON CREEK = 5.2 (mi./sq. mi.)

9) Are there forest roads or ditches within the associated WAU(s) that deliver surface water to streams, rather than back to the forest floor?

☐ No  ☒ Yes, describe:  
It is likely some roads or road ditches within the WAU intercept sub-surface flow and deliver surface water to streams, however current road construction, reconstruction, and/or maintenance standards will be applied that address this issue by installing cross-drains to deliver ditch water to stable forest floors.

10) Is there evidence of changes to channels associated with peak flows in the proposal area (accelerated aggradations, surface erosion, mass wasting, decrease in large organic debris (LOD), change in channel dimensions)?

☐ No  ☒ Yes, describe observations:  
There is evidence of changes to channels across the WAU. These changes are a result of natural events such as spring runoff from snowmelt and significant storm events. Channel migration, scouring, and deposition of material can be seen in channels across the WAU; this indicates those channels historically experience higher water levels and peak flows.

11) Describe any anticipated contributions to peak flows resulting from this proposal’s activities which could impact areas downstream or downslope of the proposal area.

It is not likely the proposed activity will change the timing, duration, or volume of water during a peak flow event. This proposal limits harvest unit size and proximity to other recent harvests, minimizes the extent of the road network, incorporates road drainage disconnected from stream networks, and implements wide riparian buffers which all have mitigating effects on the potential for this proposal to increase peak flows that could impact areas downstream or downslope of the proposal area.

12) Is there a water resource (public, domestic, agricultural, hatchery, etc.), or area of slope instability, downstream or downslope of the proposed activity?

☐ No  ☒ Yes, describe the water resource(s): See B.d.1.

a. Is it likely a water resource or an area of slope instability listed in B-3-12 (above) will be affected by changes in amounts, quality or movements of surface water as a result of this proposal?

☐ No  ☒ Yes, describe possible impacts:

13) Describe any protection measures, in addition to those required by other existing plans and programs (i.e. the HCP, DNR landscape plans) and current forest practice rules included in this proposal that mitigate potential negative effects on water quality and peak flow impacts.

None.

b. Ground Water:

1) Will groundwater be withdrawn from a well for drinking water or other purposes? If so, give a general description of the well, proposed uses and approximate quantities withdrawn from the well. Will water be discharged to groundwater? Give general description, purpose, and approximate quantities if known.

No water will be withdrawn or discharged.

2) Describe waste material that will be discharged into the ground from septic tanks or other sources, if any (for example: Domestic sewage; industrial, containing the following chemicals; agricultural; etc.). Describe the general size of the system, the number of such systems, the number of houses to be served (if applicable), or the number of animals or
humans the system(s) are expected to serve.

Minor amounts of oil, fuel, and other lubricants may inadvertently be discharged to the ground as a result of heavy equipment use or mechanical failure. No lubricants will be disposed of on-site. All spills are required to be contained and cleaned-up. This proposal is expected to have no impact on ground water.

3) Is there a water resource use (public, domestic, agricultural, hatchery, etc.), or area of slope instability, downstream or downslope of the proposed activity?

☐ No ☒ Yes, describe: See B.d.1.

a. Is it likely a water resource or an area of slope instability listed in B-3-b-3 (above) could be affected by changes in amounts, timing, or movements of groundwater as a result this proposal?

☒ No ☐ Yes, describe possible impacts:

Note protection measures, if any:

Potentially unstable slopes are excluded from the harvest.

c. Water runoff (including stormwater):

1) Describe the source of runoff (including storm water) and method of collection and disposal, if any (include quantities, if known). Where will this water flow? Will this water flow into other waters? If so, describe. 

Water runoff, including storm water, from road surfaces will be collected by roadside ditches and diverted onto the forest floor via ditch-outs and cross drain culverts.

2) Could waste materials enter ground or surface waters? If so, generally describe.

☐ No ☒ Yes, describe:

Waste materials, such as sediment or slash, may enter surface water.

Note protection measures, if any:

No additional protection measures will be necessary to protect these resources beyond those described in B-1-d-2, B-1-h, B-3-a-2, and B-3-a-13.

3) Does the proposal alter or otherwise affect drainage patterns in the vicinity of the site? If so, describe.

No changes to drainage patterns are expected.

d. Proposed measures to reduce or control surface, ground, and runoff water, and drainage pattern impacts, if any:  See surface water, ground water, and water runoff sections above, questions B-3-a-1-c, B-3-a-13, B-3-b-3, and B-3-c-2.

4. Plants

a. Check the types of vegetation found on the site:

☒ Deciduous tree:  ☒ Alder ☐ Aspen ☒ Birch ☒ Cottonwood ☐ Maple ☐ Western Larch ☐ Other:

☒ Evergreen tree:  ☒ Douglas-Fir ☐ Engelmann Spruce ☐ Grand Fir ☐ Lodgepole Pine ☐ Mountain Hemlock ☐ Noble Fir ☐ Pacific Silver Fir ☐ Ponderosa Pine ☒ Sitka Spruce ☒ Western Hemlock ☒ Western Redcedar ☐ Yellow Cedar ☐ Other:  White Pine

☒ Shrubs:  ☒ Huckleberry ☒ Rhododendron ☒ Salmonberry ☐ Salal ☐ Other:

☒ Ferns  ☐ Grass  ☐ Pasture  ☐ Crop or Grain
b. What kind and amount of vegetation will be removed or altered? *(Also see answers to questions A-11-a, A-11-b and B-3-a-2).*

Variably aged timber (generally ages 60-120 year old) will be removed with a VRH prescription. Some immature trees, snags or individual remnant trees may be left unless they need to be felled for safety or operational reasons. Understory vegetation will be disturbed by logging or road building activities. These stands will retain snags, dominant and co-dominant and/or structurally unique trees via clumps and scattered leave trees to increase horizontal and vertical diversity over the landscape.

c. 1) Describe the species, age, and structural diversity of the timber types immediately adjacent to the removal area. *(See “WAU Map(s)” and “Timber Harvest Unit Adjacency Map(s)” on the DNR website: [http://www.dnr.wa.gov/sepa](http://www.dnr.wa.gov/sepa). Click on the DNR region of this proposal under the Topic “Current SEPA Project Actions - Timber Sales.” Proposal documents also available for review at the DNR Region Office.)*

The site is surrounded by Douglas-fir dominated forest with ages ranging from 0 to over 300-years-old.

d. List threatened and endangered plant species known to be on or near the site.

None found in corporate database.

e. Proposed landscaping, use of native plants, or other measures to preserve or enhance vegetation on the site, if any:

An average of more than 8-15 trees per acre will be retained in VRH units as scattered leave trees and in clumps that are distributed across the proposal area. These clumps include all tree species currently found on site. Clumps were located around features that will contribute to the maintenance of biological diversity such as snag recruits, cavity trees, down logs, steep slopes and large wind firm conifer trees.

Old growth remnants that are not associated with a neighboring old growth stand are scattered throughout the harvest area and are marked for retention. Any of these trees that need to be cut to facilitate road building or safe harvest operation will be left on site to serve as downed wood recruits.

f. List all noxious weeds and invasive species known to be on or near the site.

Himalayan blackberry is present in the vicinity.

5. Animals

a. List any birds and other animals or unique habitats which have been observed on or near the site or are known to be on or near the site. Examples include:

birds:

☐ eagle ☐ hawk ☐ heron ☐ owls ☐ songbirds

☒ other: crows

mammals:

☒ bear ☐ beaver ☐ coyote ☐ cougar ☐ deer ☐ elk

☐ other:

fish:

☐ bass ☐ herring ☐ salmon ☐ shellfish ☐ trout

☐ other:

amphibians/reptiles:

☒ frog ☐ lizard ☐ salamander ☐ snake ☐ turtle

☐ other:

unique habitats:

☐ balds ☐ caves ☐ cliffs ☐ mineral springs ☐ oak woodlands ☐ talus slopes

☐ other:
b. List any threatened and endangered species known to be on or near the site (include federal- and state-listed species).

None found in corporate database

c. Is the site part of a migration route? If so, explain.

☒ Pacific flyway ☐ Other migration route:

Explain:

All of Washington State is considered part of the Pacific Flyway. No impacts are anticipated as a result of this proposal.

d. Proposed measures to preserve or enhance wildlife, if any:

1) Note existing or proposed protection measures, if any, for the complete proposal described in question A-11.

   Species /Habitat: Old Growth Forest
   Protection Measures: Forest stands that may have an origin date before 1850 have been assessed by a State lands old growth specialist. Stands over 171-years-old that are over 5 acres have been delineated and the proposal has been designed to exclude them.

   Species /Habitat: Mature Forest Components
   Protection Measures: Retention tree measures outlined in B-4-d. Scattered old growth remnants not associated with old growth stands have been marked for retention.

   Species /Habitat: Riparian Habitat

e. List any invasive animal species known to be on or near the site.

None known.

6. Energy and natural resources

a. What kinds of energy (electric, natural gas, oil, wood stove, solar) will be used to meet the completed project's energy needs? Describe whether it will be used for heating, manufacturing, etc.

Petroleum fuel (diesel or gasoline) will be used for heavy equipment during active road building, timber harvest operations, and for transportation. No energy sources will be needed following project completion.

b. Would your project affect the potential use of solar energy by adjacent properties? If so, generally describe.

No.

c. What kinds of energy conservation features are included in the plans of this proposal? List other proposed measures to reduce or control energy impacts, if any.

None.

7. Environmental health

a. Are there any environmental health hazards, including exposure to toxic chemicals, risk of fire and explosion, spill, or hazardous waste that could occur as a result of this proposal? If so, describe.

   1) Describe any known or possible contamination at the site from present or past uses.

      None known.

   2) Describe existing hazardous chemicals/conditions that might affect project development and design. This includes underground hazardous liquid and gas transmission pipelines located within the project area and in the vicinity.

      None known.

   3) Describe any toxic or hazardous chemicals that might be stored, used, or produced during the project's development or construction, or at any time during the operating life of the project.

      Petroleum-based fuel and lubricants may be used and stored on site during the operating life of this project.
4) Describe special emergency services that might be required.
   The Department of Natural Resources, private, and fire protection district suppression crews may be
   needed in case of wildfire. In the event of personal injuries, emergency medical services may be required.
   Hazardous material spills may require Department of Ecology and/or county assistance.

5) Proposed measures to reduce or control environmental health hazards, if any:
   No petroleum-based products will be disposed of on site. If a spill occurs, containment and cleanup will be
   required. Spill kits are required to be onsite during all heavy equipment operations. The cessation of
   operations may occur during periods of increased fire risk. Fire tools and equipment, including pump
   trucks and/or pump trailers, will be required on site during fire season.

NOTE: If contamination of the environment is suspected, the proponent must contact the Department of Ecology.

b. Noise

1) What types of noise exist in the area which may affect your project (for example: traffic, equipment, operation,
   other)?
   None.

2) What types and levels of noise would be created by or associated with the project on a short-term or a long-term
   basis (for example: traffic, construction, operation, other)? Indicate what hours noise would come from the site.
   There will be short term, low level and high level noise created by the use of harvesting equipment and
   hauling operations within the proposal area. This type of noise has been historically present in this
   geographical area.

3) Proposed measures to reduce or control noise impacts, if any:
   None.

8. Land and shoreline use

a. What is the current use of the site and adjacent properties? Will the proposal affect current land uses on nearby or adjacent
   properties? If so, describe. (Site includes the complete proposal, e.g. rock pits and access roads.)
   Current use of site and adjacent land types: working forest land.

   This proposal will not change the use of or affect the current/long term land use of areas associated with this sale.

b. Has the project site been used as working farmlands or working forest lands? If so, describe. How much agricultural or forest land of
   long-term commercial significance will be converted to other uses as a result of the proposal, if any? If resource lands have not been
   designated, how many acres in farmland or forest land tax status will be converted to nonfarm or nonforest use?
   This proposal site has been used as working forest lands.  This proposal will retain the site in working forest lands.

   1) Will the proposal affect or be affected by surrounding working farm or forest land normal business operations, such as oversize
      equipment access, the application of pesticides, tilling, and harvesting? If so, how:
      No.

   c. Describe any structures on the site.
   None.

d. Will any structures be demolished? If so, what?
   No.

e. What is the current zoning classification of the site?
   Commercial Forestry.

f. What is the current comprehensive plan designation of the site?
   Commercial Forestry.

g. If applicable, what is the current shoreline master program designation of the site?
   Not applicable.

h. Has any part of the site been classified as a critical area by the city or county? If so, specify.
i. Approximately how many people would reside or work in the completed project? 
   None.

j. Approximately how many people would the completed project displace? 
   None.

k. Proposed measures to avoid or reduce displacement impacts, if any: 
   Does not apply.

l. Proposed measures to ensure the proposal is compatible with existing and projected land uses and plans, if any: 
   This project is consistent with current comprehensive plans and zoning classifications.

m. Proposed measures to ensure the proposal is compatible with nearby agricultural and forest lands of long-term commercial significance, if any: 
   None.

9. Housing

   a. Approximately how many units would be provided, if any? Indicate whether high, middle, or low-income housing. 
      Does not apply.

   b. Approximately how many units, if any, would be eliminated? Indicate whether high, middle, or low-income housing. 
      Does not apply.

   c. Proposed measures to reduce or control housing impacts, if any: 
      None.

10. Aesthetics

    a. What is the tallest height of any proposed structure(s), not including antennas; what is the principal exterior building material(s) proposed? 
       Does not apply.

    b. What views in the immediate vicinity would be altered or obstructed? 
       Mature conifer stands will be converted to a conifer plantation with scattered green trees.

       1) Is this proposal visible from a residential area, town, city, recreation site, major transportation route or designated scenic corridor (e.g., county road, state or interstate highway, US route, river or Columbia Gorge SMA)? 
          ☒ No ☐ Yes, name of the location, transportation route or scenic corridor:

       2) How will this proposal affect any views described above? 
          As described in A.11, mature Douglas-fir will be converted to a conifer stand with scattered legacy trees and snag recruits in the VRH portions of the harvest. Even-aged timber harvest is a regular occurrence on this hillside so this proposal is unlikely to significantly alter the views above.

    c. Proposed measures to reduce or control aesthetic impacts, if any: 
       Retention trees as described in B.4.b.2 and RMZ buffers as described in B.3.a.1.b will reduce the aesthetic impacts of the harvest. Seedlings will be planted within two years of harvest in the proposal area.

11. Light and glare

    a. What type of light or glare will the proposal produce? What time of day would it mainly occur? 
       None.

    b. Could light or glare from the finished project be a safety hazard or interfere with views? 
       No.

    c. What existing off-site sources of light or glare may affect your proposal?
None.

d. Proposed measures to reduce or control light and glare impacts, if any:
   None.

12. Recreation

   a. What designated and informal recreational opportunities are in the immediate vicinity?
      Informal recreation opportunities exist across the landscape. Hiking, running, biking, ATV and hunting all occur
      in the vicinity.

   b. Would the proposed project displace any existing recreational uses? If so, describe.
      There may be some disruptions to recreational use during periods of harvesting and hauling.

   c. Proposed measures to reduce or control impacts on recreation, including recreation opportunities to be provided by the
      project or applicant, if any:
      None.

13. Historic and cultural preservation

   a. Are there any buildings, structures, or sites, located on or near the site that are over 45 years old listed in or eligible for
      listing in national, state, or local preservation registers? If so, specifically describe.
      None.

   b. Are there any landmarks, features, or other evidence of Indian or historic use or occupation? This may include human
      burials or old cemeteries. Are there any material evidence, artifacts, or areas of cultural importance on or near the site?
      Please list any professional studies conducted at the site to identify such resources.
      None.

   c. Describe the methods used to assess the potential impacts to cultural and historic resources on or near the project site.
      Examples include consultation with tribes and the department of archeology and historic preservation, archaeological
      surveys, historic maps, GIS data, etc.
      Measures include reviewing DNR Special Concerns reports, consulting affected tribes, reviewing historical GLO
      maps, USGS maps, historic aerial photos, and DAHP records. The harvest area has been reviewed by a cultural
      resource technician. The Lummi Nation, Nooksack Indian Tribe, Upper Skagit Indian Tribe and Swinomish Tribal
      Community were notified about this proposal in a meeting on 02/24/2021. No concerns have been raised.
      A trail mapped on the GLO maps is shown adjacent to the unit but no evidence for this trail can be found.

   d. Proposed measures to avoid, minimize, or compensate for loss, changes to, and disturbance to resources. Please include
      plans for the above and any permits that may be required.
      If a presently-unknown cultural resource is discovered during project operations, DNR will comply with the
      Cultural Resources Inadvertent Discovery Guidance dated March 2010 or its successor procedure.

14. Transportation

   a. Identify public streets and highways serving the site or affected geographic area and describe proposed access to the
      existing street system. Show on site plans, if any.
      See WAU and adjacency maps on the DNR website under “SEPA”. See A.12.b.

   b. Is the site or affected geographic area currently served by public transit? If so, generally describe. If not, what is the
      approximate distance to the nearest transit stop?
      No. The nearest transit stop is not known.

   c. How many additional parking spaces would the completed project or non-project proposal have? How many would the
      project or proposal eliminate?
      None.

   d. Will the proposal require any new or improvements to existing roads, streets, pedestrian, bicycle or state transportation
      facilities, not including driveways? If so, generally describe (indicate whether public or private).
      Yes, see A-11-c.
1) *How does this proposal impact the overall transportation system/circulation in the surrounding area and any existing safety problem(s), if at all?*

This project will have minimal to no additional impacts on the overall transportation system in the area.

e. Will the project or proposal use (or occur in the immediate vicinity of) water, rail, or air transportation? If so, generally describe.
   No.

f. How many vehicular trips per day would be generated by the completed project or proposal? If known, indicate when peak volumes would occur and what percentage of the volume would be trucks (such as commercial and non-passenger vehicles). What data or transportation models were used to make these estimates?
   Approximately 10 to 15 truck trips per day while the operation is active. Peak volumes would occur during the yarding and loading activities between 4:00 a.m. and 4:00 p.m. of the operating period. The completed project will generate less than one vehicular trip per day. Estimates are based on the observed harvest traffic of past projects.

g. Will the proposal interfere with, affect or be affected by the movement of agricultural and forest products on roads or streets in the area? If so, generally describe.
   No.

h. Proposed measures to reduce or control transportation impacts, if any:
   None.

15. Public services

a. Would the project result in an increased need for public services (for example: fire protection, police protection, public transit, health care, schools, other)? If so, generally describe.
   No.

b. Proposed measures to reduce or control direct impacts on public services, if any.
   None.

16. Utilities

a. Check utilities currently available at the site:
   ☐ electricity ☐ natural gas ☐ water ☐ refuse service ☐ telephone ☐ sanitary sewer
   ☐ septic system ☐ other:

b. Describe the utilities that are proposed for the project, the utility providing the service, and the general construction activities on the site or in the immediate vicinity which might be needed.
   None.
C. SIGNATURE

The above answers are true and complete to the best of my knowledge. I understand that the lead agency is relying on them to make its decision.

Signature: [Signature]

Name of signee: Kyle Galloway

Position and Agency/Organization: DEMINA UNIT FORESTER, DNR NW

Date Submitted: [Date]