STATE FOREST LAND
SEPA ENVIRONMENTAL CHECKLIST

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: PEACHY
   Agreement # 30-097373

2. Name of applicant: Washington Department of Natural Resources

3. Address and phone number of applicant and contact person:
   Washington Department of Natural Resources
   South Puget Sound Region
   Enumclaw, WA 98022
   Audrey Mainwaring
   (360) 825-1631

4. Date checklist prepared: 02/02/2022

5. Agency requesting checklist: Washington Department of Natural Resources

6. Proposed timing or schedule (including phasing, if applicable):
   a. Auction Date:
      08/23/2022
   
   b. Planned contract end date (but may be extended):
      10/31/2024
   
   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.
   ☒ Yes, identify any plans under A-7-a through A-7-d:

   a. Site Preparation:
      Unit 1-2: Herbicide application as needed to ensure establishment of planted seedlings.

   b. Regeneration Method:
      Unit 1-2: Hand plant with native conifer species. Units will be planted at a density that exceeds Forest Practice rules.

   c. Vegetation Management:
      Unit 1-2: Competing vegetation management needs may be assessed from plantation ages three to eight and management activities will occur as needed.

   d. Other:
      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.
   - ☑ 303 (d) – listed water body in WAU:
     - ☑ temp
     - ☑ sediment
     - ☑ completed TMDL (total maximum daily load)
   - ☐ Landscape plan:
   - ☑ Watershed analysis: Mineral/NF Mineral Creek
   - ☐ Interdisciplinary team (ID Team) report:
   - ☑ Road design plan: Included in the Road Plan, dated 2/2/2022
   - ☐ Wildlife report:
   - ☐ Geotechnical report:
   - ☑ Memorandum of understanding (sportsmen’s groups, neighborhood associations, tribes, etc.):
   - ☑ Rock pit plan: Included in the Road Plan, dated 2/2/2022
   - ☑ Other:
     1) GIS WAU Analyses: Maps and data pertaining to mass erosion and erosion potential hydrologic maturity and roads per square mile, and rain-on-snow zones. This information has been adjusted where more recent and accurate proprietary data exists.
     2) LRM Special Concerns data

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 # 2422904
    - ☑ 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:

   The Peachy Timber Sale consists of two variable retention harvest (VHR) units. The original proposal area was approximately 120 acres, decreased to 78 net sale acres after deducting leave tree areas, potentially unstable slopes, and riparian management zones. Field evaluation
revealed potentially unstable slopes and multiple streams that were bound out of the final timber sale area. Approximately 2,727 MBF of mixed conifer and hardwoods will be harvested.

Each unit’s approximate net acreage is as follows:
Unit 1- 37 acres
Unit 2- 41 acres

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:*

<table>
<thead>
<tr>
<th>Unit</th>
<th>Origin Date</th>
<th>Major Timber Species</th>
<th>Type of Harvest</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Post-1920</td>
<td>Douglas-fir, western hemlock, and Pacific silver fir</td>
<td>Variable Retention Harvest</td>
</tr>
<tr>
<td>2</td>
<td>Post-1928</td>
<td>Douglas-fir, western hemlock, and Pacific silver fir</td>
<td>Variable Retention Harvest</td>
</tr>
</tbody>
</table>

Origin year sources data: DNR Combined Origin Year dataset majority values extracted from each unit polygon.

*Overall Unit Objectives:*

**Short-term objectives:**

1) Create revenue for trust beneficiaries through timber harvest
2) Provide legacy trees for the future stands. In Units 1 and 2, residual trees will be well distributed throughout the harvest unit and will create structural diversity over time and will provide habitat for various species of animals and plants.
3) In Units 1 and 2, native conifer stands will be established within two years of harvest. The growth of these trees may be enhanced and managed by altering the density of the plantation through pre-commercial thinning in order to produce future high quality timber and Northern Spotted Owl (NSO) dispersal habitat.
4) Type 3 and Type 4 streams will be protected with riparian management zones (RMZs). Type 5 streams within the harvest boundary which will be protected with a 30 foot Equipment Limitation Zone and one Type 5 stream is adjacent to the harvest proposal.

**Long-term objectives**

1) The primary objective of the treatment will be to stimulate wood production, generate trust revenue, create new canopy layers, and enhance important structural components to produce stand conditions associated with older stands.
2) In Units 1 and 2, Timber Stand Improvement: a series of intermediate cuttings will be scheduled as needed during the development of the new stands.
3) Habitat Management: maintain, and improve the components within the developing stand with each succeeding treatment if the future objective is to create quality northern spotted owl movement and wildlife habitat.
4) Resource Protection: the protection of soil productivity and water quality will remain priorities. Each harvest prescription will be crafted to prevent soil erosion and limit compaction. Large course woody debris and recruitment snags will be left to contribute to site productivity. Management activities within the established RMZs will be designed to maintain protection of water quality and create older forest characteristics in stream adjacent stands.

5) Create a sustainable source of revenue for trust beneficiaries.
6) Maintain hydrologic maturity across DNR managed lands.

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></td>
<td>1348</td>
<td>0.5</td>
<td></td>
</tr>
<tr>
<td>Reconstruction</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Maintenance</td>
<td></td>
<td>46002</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Abandonment</td>
<td></td>
<td>825</td>
<td>0.3</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</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>(fish)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Stream Culvert Install/Replace (no</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>fish)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cross-Drain Install/Replace</td>
<td></td>
<td>25</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Routine maintenance will occur on all roads used throughout the life of this proposal

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: T14-0N R6-0E S29, T14-0N R6-0E S28, T14-0N R6-0E S21, T14-0N R6-0E S31

b. Distance and direction from nearest town:

This proposal is 12 miles southeast of the town of Mineral. From Mineral head east for 1.2 miles and turn right onto the SPI 1 road. Follow the Murray Mainline for 5.75 miles and turn left onto the DNR 4 road. Follow the 4 road for 3.4 miles and turn left onto the DNR 3 road. Follow the 3 road for 1 mile and turn left onto the 34. Follow for 0.5 miles to reach unit 1. Continue on the 34 road for 0.2 miles to reach unit 2.
To reach the rock pit from the 3/34 road junction continue on the 3 road for 0.8 miles.

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).

The North Fork Mineral Creek WAU includes potentially unstable slopes, Tahoma Spotted Owl Management Unit (SOMU), and cultural resources.

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.

The Department of Natural Resources has a Habitat Conservation Plan (HCP) with the U.S. Fish and Wildlife Service and the National Marine Fisheries Service concerning threatened and endangered species and their habitats. The applicable Habitat Conservation Plan (HCP) strategies incorporated into this proposal include:

• Retaining Riparian Management Zones (RMZ) to protect water quality, stream bank integrity, stream temperatures, and provide down woody debris. RMZs will develop older riparian and wetland forest characteristics that, in combination with other strategies, will help support older riparian and wetland forest dependent wildlife and aquatic species.

• Retaining a minimum of 8 trees per acre (greater than 10 inches diameter at breast height) clumped and scattered throughout the units. This strategy will provide legacy elements for recruitment of future snags, coarse woody debris, multi-layered stands, and large diameter trees. In combination, these features will provide elements of older forest habitat characteristics within the new plantation. Some of these leaf trees are placed in locations within harvest units to minimize soil displacement and surface erosion.

• Maintaining northern spotted owl dispersal habitat within designated Spotted Owl Management Units.

• Maintaining a specified level of hydrologically mature forests within rain-on-snow zones of DNR-managed watershed sub basins to reduce impacts of timber harvest operations to peak flow rates.

Agency policies and guidelines from the Policy for Sustainable Forests incorporated into this proposal include:

• Generally limiting even-aged harvests to less than 100 acres per unit.

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 South Puget HCP Planning Unit will meet at least 10% older forest within conservation areas by 2080.

Current Forest Practice Rules also require that:

- Potentially unstable slopes and landforms are evaluated and rule-identified landforms with the potential to deliver to public resources are excluded from the sale area.

- Allowing green-up (regenerated stands that are either 4 feet tall or 5 years of age) of adjacent stands to minimize impacts to watershed hydrology.

- Best management practices for road construction and maintenance is implemented to prevent sediment delivery to typed waters and avoid improper drainage patterns that may create slope failures.

- After harvest, tree seedlings will be planted to reforest the site and may be complemented by the natural regeneration that is expected to occur.

Also, see documents listed under question A-8-other.

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

Rule identified landforms, according to the Forest Practices Board Manual, with potential to deliver to public resources or in any way threatens public safety have been identified and protected. Four Category E shallow failures, one bedrock hollow, three inner gorge features, and one Category E Active deep-seated bedrock landslide were identified and excluded from the sale area within RMZs or non-tradeable leave tree clumps.

The HCP strategy for riparian conservation (in concert with other conservation areas throughout the HCP Planning Unit) will contribute to the retention and development of older forests, while the leave tree procedure will enhance the structural diversity of forests across the landscape over time.

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. Rule-identified landforms and potentially unstable slopes were excluded from this proposal.

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>NF MINERAL CREEK</td>
<td>17545</td>
<td>13862</td>
<td>1220</td>
<td>500</td>
<td>2</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: Rolling, Steep Slopes, and Hilly

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

      | WAU:                     | NF MINERAL CREEK |
      |--------------------------|------------------|
      | WAU Acres:               | 17545            |
      | Elevation Range:         | 1431 - 5230 ft.  |
      | Mean Elevation:          | 3031 ft.         |
      | Average Precipitation:   | 97 in./year      |
      | Primary Forest Vegetation Zone: | Pacific Silver Fir |

   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 WAU at the same elevation and aspect.

   b. What is the steepest slope on the site (approximate percent slope)?

      94 percent.

   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>0486</td>
<td>V.CINDERY LOAMY SAND</td>
</tr>
<tr>
<td>0485</td>
<td>V.CINDERY LOAMY SAND</td>
</tr>
<tr>
<td>0488</td>
<td>V.CINDERY LOAMY SAND</td>
</tr>
<tr>
<td>0989</td>
<td>V.CINDERY LOAMY SAND</td>
</tr>
<tr>
<td>0988</td>
<td>V.CINDERY LOAMY SAND</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.

There are three category E shallow failures one adjacent to Unit 2 and one within Unit 1. There are inner gorge features located in the RMZs of Units 1 and 2. One bedrock hollow located associated with Unit 2. There is an active bedrock deep-seated landslide located approximately 250 feet northeast of Unit 2. See associated Forest Practices application and Forest Practice Slope Stability Form and Geologic Field Summary.

1) Does the proposal include any management activities proposed on potentially unstable slopes or landforms?

☐ No  ☒ Yes, describe the proposed activities:

Cables may be suspended over potentially unstable slopes or landforms

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

A state lands geologist and foresters conducted remote reviews to identify potentially unstable landforms. The harvest boundaries and road locations are designed to exclude areas identified as potentially unstable with the likelihood of deliver to public resources. One category E shallow failure has been excluded from Unit 1 with a non-tradeable leave tree area. One bedrock hollow has been excluded from Unit 2 with a non-tradeable leave tree area. Haul roads will be upgraded to current Forest Practice Rules and maintained through the duration of harvest activities. Lead end of all logs will be suspended during harvest operations and
harvest equipment will be limited on certain slopes to control impacts on soils that could result in excessive soil displacement and exposure.

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: 0.5*
*Approx. acreage new landings: 1*
*Fill Source: On-site material, Peachy Pit and 4 Road Pit*

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)? *Approximate percent of proposal in permanent road running surface (includes gravel roads):*

Less than 1 percent 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 timber sale contract, including a detailed Road Plan, ensure the following:

- Roads will be crowned or in-sloped and cross drained to provide for water drainage.
- Cross drains will be properly spaced, installed and maintained.
- Protection measures to avoid sediment delivery will be addressed as needed during operations and may include the use of water bars, catch basins or silt traps.
- There will be periodic maintenance and inspection of the road system to ensure proper drainage.
- From November 1st to May 15th, the Purchaser may be required to provide further protection of water, soil, roads and forest assets at the Purchaser’s expense. Preventative measures must be in place prior to commencing any operations during this period.
- A detailed plan of operations will be developed by the Purchaser and approved by the Contract Administrator prior to commencing operations.
- Ground based yarding will be restricted to certain slopes to reduce soil impact.
- Ground based skid trails will be closed immediately upon completion of yarding which may include the use of water bars.
- The lead end of logs will be suspended during yarding operations, also a falling and yarding plan will be followed.

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:

North Fork Mineral Creek, Mineral Creek, and the Nisqually River are downstream of smaller streams adjacent to the sale.

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>North Fork Mineral Creek</td>
<td>1</td>
<td>1</td>
<td>200-foot no harvest buffer</td>
</tr>
<tr>
<td>Unnamed Stream</td>
<td>3</td>
<td>2</td>
<td>165-foot no harvest buffer</td>
</tr>
<tr>
<td>Unnamed Stream</td>
<td>4</td>
<td>5</td>
<td>Minimum of 100-foot no harvest buffer</td>
</tr>
</tbody>
</table>

c. List any additional RMZ/WMZ protection measures including silvicultural
prescriptions, road-related RMZ/WMZ protection measures and wind buffers.

The streams adjacent to this proposal were identified during field reconnaissance. The stream types were determined using physical stream characteristics according to DNR’s Trust Forestland Habitat Conservation Plan (HCP) water typing system. Refer to the associated timber sale map for stream types and locations.

Road-related protection measures for this proposal include preventing silt-bearing runoff from entering any streams and prohibiting organic debris waste material from being placed within 50 feet of a live stream or wetland.

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):

Harvest will occur within 200 feet of some streams, but beyond the buffer distances listed in the table above.

Type 5 streams:
There are ten Type 5 streams within or adjacent to the harvest proposal that will be protected with a 30-foot equipment limitation zone or are excluded from the harvest area. Type 5 stream crossings may be allowed with approval by the Contract Administrator. A culvert will be installed at three Type 5 crossings.

Refer to the associated timber sale map for stream types and locations.

There will be three culvert replacements occurring in Type 5 streams.

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)?

NF MINERAL CREEK = 4.5 (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(s). 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(s); 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):

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.

The current guidelines for the HCP implementation include prescriptions that address the potential for peak flow impacts. HCP procedure PR-14-040-006 provides guidance for assessing the hydrological maturity levels for the sub-basins within the rain-on-snow zone. This policy is used to manage hydrological maturity levels and reduce impacts of timber harvest operations to peak flow rates. This proposal includes maintaining cross-drains and ditch-outs on the haul routes. These structures will ensure that ditch water is deposited on the forest floor and not allowed to flow directly into typed waters. Leave trees within the harvest unit will minimize soil displacement and surface erosion.

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:

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:

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:
- Shrub:
  - ☒ Huckleberry ☐ Rhododendron ☐ Salmonberry ☒ Salal
  - ☐ Other:
- Ferns
- Grass
- Pasture
- Crop or Grain
  - ☐ Orchards ☐ Vineyard ☐ Other Permanent Crops
- Wet Soil Plants:
  - ☒ Bullrush ☐ Buttercup ☐ Cattail ☒ Devil’s Club ☒ Skunk Cabbage
  - ☐ Other:
- Water plants:
  - ☒ Eelgrass ☐ Milfoil ☐ Water Lily
  - ☐ Other:
- ☐ Other types of vegetation:
- ☐ Other plant communities of concern:

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).

Approximately 2,727 MBF of primarily western hemlock, Douglas-fir, pacific silver fir, western red cedar, red alder, and black cottonwood will be removed. The age of the timber is between 56 and 102 years old. Some understory vegetation within the harvest units will be disturbed or damaged during the felling and yarding process.

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 Map(s)” for this information.)
“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 stands immediately adjacent to the proposed harvest units are DNR managed State trust lands within the NF Mineral Creek WAU and are similar to the proposal area. These stands are typically second-growth, range in age from 50-100 years old and are dominated by Douglas-fir, western hemlock, and pacific silver fir.

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

None found in corporate database

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

Replanting of native conifer species at a density that meets or exceeds Forest Practice standards within two years following harvest. At least 8 leave trees per acre were selected to remain in clumps and distributed throughout the units.

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

None are known or were observed on the site

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:
   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).

<table>
<thead>
<tr>
<th>TSU Number</th>
<th>Common Name</th>
<th>Federal Listing Status</th>
<th>State Listing Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>PEACHY VRH U2</td>
<td>Northern Spotted Owl</td>
<td>Threatened</td>
<td>Endangered</td>
</tr>
</tbody>
</table>

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

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: **Upland**
Protection Measures: *Clumped and individual leave trees at a density of 8 trees per acre in Units 1 and 2. Leave trees retained are wind firm and well-formed dominant and co-dominant trees representing the original diversity of species. Additionally, individual species and tree types known to have high wildlife use have been retained. Trees with unique characteristics such as forked or damaged tops have been incorporated within many of the leave tree groups throughout the proposal to provide current and future habitat for a variety of wildlife species. Large hard and soft snags with high evident use and cavities will also be retained when possible.*

Species /Habitat: **Riparian**
Protection Measures: *HCP RMZ Buffers. This timber sale proposal conforms to commitments under the 1997 DNR Habitat Conservation Plan (HCP). Specific to this proposal is the riparian strategy to conserve and protect habitat for species that are dependent on aquatic and riparian habitat, and preserve long-term site productivity through the maintenance of forest processes.*

Species /Habitat: **Northern spotted owl**
Protection Measures: *The Peachy proposal consisting of 78 acres is located within the Tahoma Spotted Owl Management Unit (SOMU), which is within a designated Dispersal Management Area within the South Puget HCP planning unit. Unit 2 is also located within the Mineral Creek Stat 1R NSO circle but located approximately 1.6 miles from the site center. The Tahoma SOMU is currently at 54.2 percent total NSO Habitat. Units 1 and 2 designated movement plus habitat but will not drop below the 50 percent movement plus habitat in SOMU. The SOMU will be at 53.9 percent total NSO habitat post-harvest as of 2/1/2022. This proposal is consistent with DNR’s HCP and PR 14-004-120 Northern Spotted Owl Management (Westside).*
e. List any invasive animal species known to be on or near the site.

   **Barred owl (Strix varia)**

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: Forest Land and recreation

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?

Timber Production

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

Not applicable

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.

No.

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.

c. **Does not apply.**

d. 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?

**The proposal may be visible from some nearby forest roads.**

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?*
The view will change from a fully stocked stand to a harvest with leave trees.

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

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?
      There are informal recreation activities such as hiking, fishing, snowshoeing, and hunting in and around the proposal site.

   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 known.

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 known.

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.

The DNR's database was checked for any potential impacts, GLO, and historic maps were reviewed.

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.

The haul route will utilize DNR forest roads within the Tahoma State Forest.

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. Nearest transit spot is approximately 20 miles away.

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: Brandon Mohler

Name of signee: Brandon Mohler

Position and Agency/Organization: State Lands Assistant Region Manager/DNR

Date Submitted: 06/02/2022
DRIVING DIRECTIONS:

From Mineral head east for 1.2 miles and turn right onto the SPI 1 Road/Murray Mainline. Follow the SPI 1 Road/Murray Mainline for 5.75 miles and turn left onto the DNR 4 Road. Follow the 4 Road for 3.4 miles and turn left onto the DNR 3 Road. Follow the 3 Road for 1.0 mile and turn left onto the 34 Road. Follow for 0.5 miles to reach Unit 1. Continue on the 34 Road for 0.2 miles to reach Unit 2. Continue down the 34 Road to reach Peachy Pit within Unit 2.

To reach the 4 Road Pit turn left off the 4 Road onto the 4T5 Road for 0.3 miles.

All Mileages are approximate.