

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:

Project Name: **HM-Mainline Project**
Agreement # **None**

2. Name of applicant: **Washington Department of Natural Resources**

3. Address and phone number of applicant and contact person:

4. Date checklist prepared: **07/28/2020**

5. Agency requesting checklist: **Washington Department of Natural Resources**

6. Proposed timing or schedule (including phasing, if applicable):

a. *Auction Date:*

Planned start date 8/15/2020

b. *Planned contract end date (but may be extended):*

Planned end date 9/30/2020

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:*

None

b. *Regeneration Method:*

None

c. *Vegetation Management:*

None

d. *Other:*

The HM-Mainline reroute is planned to be extended over the creek in the summer of 2021 and the debris is to be removed during the summer of 2020.

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: **Trap Creek**

sediment:

completed TMDL (total maximum daily load): **Fern Creek, Falls Creek, Willapa River, Fork Creek, Halfmoon Creek**

Landscape plan:

Watershed analysis:

Interdisciplinary team (ID Team) report:

Road design plan:

Wildlife report:

Geotechnical report: Geologic Risk Assessment 7/30/2020 is attached. - Geotechnical Report is available with FPA # 2938027 on FPARS + at the Region office. -JCT

Other specialist report(s):

Memorandum of understanding (sportsmen's groups, neighborhood associations, tribes, etc.):

Rock pit plan:

Other: **Forest Practices Board Manual; Forest Practices Activity Maps; Policy for Sustainable Forests (PSF 2006); State Soil Survey; Habitat Conservation Plan (HCP 1997); HCP Checklist; Riparian Forest Restoration Strategy (RFRS); Land Resource Manager Reports and associated maps; Road Maintenance and Abandonment Plan (RMAP): #2502155. Land Resource Manger Reports and associated maps; DNR's State Trust Land Final Conservation Plan Amendment for the Marbled Murrelet Long-term Conservation Strategy (MM LTCS) (2019). The following information is provided by DNR's GIS database: Weighted Old Growth Habitat Index (WOGHI); WAU Rain-On-Snow Layer; Marbled Murrelet Habitat Layer; Spotted Owl Habitat Layer; USGS and GLO maps; Historical Aerial Photographs; State Lands Geologist Remote Review (SLGRR); and Forest Practices Statewide Landslide Inventory (LSI) screening tool.**

Referenced documents may be obtained at the Pacific Cascade region office.

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 # 2938027 is available on FPARS and at the Region office. -JCT

FPA # 2938027
XXXXX

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 project is to build road for a future culvert install during the summer of 2021 and to layback an over steepened scarp where a slide crossed through the HM-Mainline. In addition to providing access for a future stream crossing it will provide access to an existing debris pile in a stream channel that was created by a slide in December 2019. This project will remove the debris pile that is currently diverting water and will allow the stream to flow in its original channel. During the slide in December 2019 the debris pile split the stream and rerouted the stream to the east which caused a larger perched area to be saturated and lead to a much larger slide downstream. Removing the debris pile allows the stream to use its original channel and maintain its original grade dewatering the hillside. The road will be left in place and during the winter of 2020/2021 and is planned to be extended across the stream during the summer of 2021 on a future permit. This will allow the stream to regrade and redefine its channel with the debris pile removed during the winter of 2020/2021. This will also allow time to ensure the unstable area above the debris pile has stabilized before a structure is designed and built. In addition the slopes along the existing road crossing the stream that was eroded out during the December 2019 storm will be laid back and seeded to improve stability and reduce erosion potential. The entire proposal areas is less than one acre. With 0.1 acre of roads.

- FPA# 2938027 indicates 370 feet of Forest Road Construction one No stream Crossing and 885 Cubic Yards of spoils.

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

This project is occurring in a RMZ for a stand that originated in 1961 and in a conifer plantation that was planted in 2013.

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.

Type of Activity	How Many	Length (feet) (Estimated)	Acres (Estimated)	Fish Barrier Removals (#)
Construction		370	1	
Reconstruction				
Maintenance				
Abandonment				
Bridge Install/Replace				
Stream Culvert Install/Replace (fish)				
Stream Culvert Install/Replace (no fish)				
Cross-Drain Install/Replace	1			

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>. 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: **Township 13 North Range 06 West Section 27** - This proposal is located in
 Township 13 North Range 06 West Section 28 TC Pacific County. - JCT
- b. Distance and direction from nearest town: **This proposal is approximately 12 miles by road southeast of Menlo, Washington.**

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 affect these known elements of the environment: earth, soils, air quality, surface water movement/quantity/quality, runoff/absorption, habitat for wildlife, unique species, noise, aesthetics, and recreation.

303(d) listed streams for temperature and total maximum daily load downstream from the proposal are the Willapa River, Halfmoon Creek, Fern Creek and Fork Creek. Fern Creek is approximately 1.5 miles from the proposal area. The Willapa River is approximately 3 miles from the proposal area. Halfmoon Creek is approximately 5 miles from the proposal area. Fork Creek is approximately 9 miles from the proposal area.

- 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 multi-species 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, which requires the Department to manage landscapes to provide and sustain long-term habitat in exchange for an Incidental Take Permit. This agreement substantially helps the Department to mitigate for cumulative effects related to management activities. Forest Practice rules are used for roads and geology. The department follows Forest Protections related to fire hazard mitigation.

- HCP is available at the Region office and at www.dnr.wa.gov. - JCT

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

None.

- 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.

WAU Name	Total WAU Acres	DNR-managed WAU Acres	Acres of DNR proposed even-aged harvest in the future	Acres of DNR proposed uneven-aged harvest in the future	Acres of proposed harvest on non-DNR-managed lands currently under active FP permits
WILLAPA HEADWATERS	62850	19943	2884	0	3607

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

Willapa Headwaters Watershed Analysis is available at the Region office and at the Regon office. -JCT

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).

WAU:	<u>WILLAPA HEADWATERS</u>
WAU Acres:	<u>62850</u>
Elevation Range:	<u>62 - 2843 ft.</u>
Mean Elevation:	<u>784 ft.</u>
Average Precipitation:	<u>82 in./year</u>
Primary Forest Vegetation Zone:	<u>Western Hemlock</u>

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)?

The estimated steepest slope on this proposal area is 80%

- Geotechnical Report indicates the steepest slope is 100%. -JCT

- 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.

State Soil Survey #	Soil Texture
0904	SILT LOAM
9805	SILT LOAM

- 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.

The proposal involves activity in a shallow rapid slide that traveled through an inner gorge carrying debris through the stream. The debris deposited in the stream channel and rerouted the stream. The debris and high stream flow also cause a culvert failure, which led to a larger shallow rapid slide. These slides occurred during a major rain event in December 2019.

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

No Yes, describe the proposed activities:

This proposal is to remove a debris pile that is rerouting a stream. This debris pile is from a slope failure along the stream upstream of the Halfmoon Mainline road that occurred during a rain event in December of 2019. The proposal is also to lay back a scarp at the failure of the culvert.

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

- **Laying back the slopes on the scarp where the culvert and road failed to minimize further erosion. The application of grass seed and straw will aid revegetating and stabilizing the scarp.**
- **Removing debris from the stream channel will return the stream to its original channel and help to dewater the hillside above the larger shallow**

rapid slide preventing further erosion. Application of straw and grass seed will minimize any sedimentation caused by the moving of the debris.

- 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: 0.1 acres

Approx. acreage new landings: 0 acres

Excavation: Removal of 885 cubic yards of material on over steepened headwall of the Halfmoon Mainline road to be placed on stable ground near project. Also the removal approximately 45 cubic yards of landslide debris primarily consisting of large woody debris and sediment will be removed from a creek.

Purpose:

- **Material in the over steepened headwall is perched in an over steepened scarp that was left at the road failure. The material will be removed and wasted in a stable location near the project.**
- **Removal of landslide debris blocking the stream will return the stream to the original channel and reduce the erosion and slide potential.**

Approx. cubic yards of fill: N/A

Fill Source: N/A

- 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 excavating the scarp, removing the debris pile, building new roads and installing culverts. However, the project will reduce the amount of overall secondary erosion and settling that is occurring as a result of the shallow rapid slides that occurred in December 2019.

- 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):*

Approximately 20% of the one acre 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.)*

- **All activities occurring in this proposal will occur during dry weather conditions.**
- **Areas of exposed soil will be grass re-vegetated and protected with straw.**
- **Surface water diversion with a pump while removing debris pile from Type 4 stream.**

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 road construction equipment and dust from vehicle traffic on roads will be emitted during proposed activities. 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:
None.

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:

Fern creek and the Willapa River

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

Wetland, Stream, Lake, Pond, or Saltwater Name (if any)	Water Type	Number (how many?)	Avg RMZ/WMZ Width in feet (per side for streams)
Unnamed stream	4	4	100
Unnamed stream	5	5	None

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

None.

- 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):

A new road will be built into the RMZ for a Type 4 creek but no crossing will be installed with this proposal. The ROW will be less than 60 feet to minimize the amount of disturbance in the RMZ.

A debris pile consisting primarily of logs in a Type 4 stream that diverted the flow of the stream following a slide in December of 2019 will be removed from the stream channel. The debris will be placed outside the ordinary high water mark to allow the stream to flow back into its original channel.

Additionally downstream from the new road an over steepened scarp resulting from the erosion of the road above the culvert will be excavated and laid back to prevent further erosion. This will occur within a Type 4 RMZ. Excavated material from the scarp will be placed outside of the RMZ

Trees that must be cut from the outer zone of the Type 4 RMZs will be removed from the RMZ to provide room for operations. Trees that must be cut in the inner zone will be left on site.

- 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.

Approximately 45 cubic yards of landslide debris primarily consisting of large woody debris will be removed from a Type 4 water. The area that the debris will be removed from is approximately 1,200 square feet and is within the ordinary high water mark of a Type 4 water.

- 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:

A pump will be used to divert surface water when removing the debris pile to minimize sedimentation during low flow period.

- 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. - Spill kits are required to be on site - JCT

- 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:

The potential for eroded material to enter surface water is minimized due to the erosion control measures and operational procedures outlined in B.1.d.2, B.1.h, B.3.a.2 and B.3.a.4..

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

WILLAPA HEADWATERS = 5.8

- 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 possible 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 will remove the debris pile that is currently diverting water and will allow the stream to flow in its original channel. During the slide in December 2019 the debris pile split the stream and rerouted the stream to the east which caused a larger perched area to be saturated and lead to a much larger slide downstream. Removing the debris pile allows the stream to use its original channel and maintain its original grade dewatering the hillside which has 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):*

There are a few private surface water intakes downstream (approximately 5 miles) from the proposal. There was a shallow rapid slide that originates above the proposal and it ran down the stream for approximately two miles.

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 other than what is in B.1.d.2, B.1.h, B.3.a.2 and B.3.a.4.

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.

2938027

None.

- 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:*

There are a few private – Agriculture and Domestic ground water intakes downstream (approximately 5 miles) from the proposal. There was a shallow rapid slide that originates above the proposal and it ran down the stream from the proposal approximately two miles. Also, there are a few areas of instability downslope of the proposal. Due to protection measures in B-1-d-2 and B-1-h along with the distance from the proposal area, ground water amounts, timing, and movements are not expected to be changed by this proposal.

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:

None other than what is in B.1.d.2, B.1.h, B.3.a.2 and B.3.a.4.

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.4.

2938027

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

Yes, within the site approximately ¼ acre will be dewatered. This ¼ acre is currently saturated because the flow of a Type 4 stream has been diverted by landslide debris. Moving the debris pile will allow the stream to flow in its original channel and will reduce potential for further erosion and landslides.

- d. Proposed measures to reduce or control surface, ground, and runoff water, and drainage pattern impacts, 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.4.

4. Plants

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

Deciduous tree:

Alder Aspen Birch Cottonwood Maple Western Larch

Other: **cascara**

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:

Shrubs:

Huckleberry Rhododendron Salmonberry Salal

Other: **vine maple and elderberry**

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:

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).

2938027

All conifer and hardwood trees within the ROW for the new construction will be cut as part of this harvest proposal. Trees cut in the inner zone of the Type 4 RMZ will remain on site. Understory vegetation will be disturbed and/or reduced within the ROW as a result of timber felling, bucking, yarding and road building activities. Areas of exposed soil will be seeded with grass to prevent erosion.

- 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>. 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.)

To the north is mature ROW timber with an origin of 1961 and a conifer plantation origin year of 2013. To the east is mature ROW timber with an origin of 1961 and a conifer plantation origin year of 2013. To the south is mature RMZ and timber with an origin of 1961. To the west is mature ROW timber with an origin of 1961 and a conifer plantation origin year of 2013.

The older stands (59 years old) and the mature RMZ stands adjacent to the units have multi-layered canopies with scattered small to large snags and a moderate component of large down woody debris. The adjacent (7 years old) have few snags and most of the down woody debris is scattered logs and slash from the previous harvest. Within the larger leaf tree clumps, there are some components of older large down woody debris within the undisturbed vegetation.

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

None found in corporate database

- FPRAM Check Confirms No Conflict with T+E Plant species. -JCT

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

None.

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

Noxious weeds and invasive species have not been observed on or near 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:

- No conflict is anticipated with Eagles

- eagle hawk heron owls songbirds
- other:
- mammals:
- bear beaver coyote cougar deer elk
- other: **bobcat**
- 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.

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

Common Name	Federal Listing Status	State Listing Status
Northern Spotted Owl	Threatened	Endangered
Marbled murrelet	Threatened	Endangered

The activity is within a Status 1 Owl Circle Site Number 877 and is not within the best 70 core patch.

- FPRAM Check Shows No Conflict with T+E Animal species. -JCT

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: **Riparian Habitat**

Protection Measures: **Large woody debris will be left on site the inner zone of the RMZ**

Species /Habitat: **Upland Habitat**

Protection Measures: **Large woody debris will be left on site.**

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

Invasive species have not been observed on or near the site.

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. 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.

- Any hazardous waste that is discovered or toxic spill that occurs will be reported to the Dept of Ecology. -JCT

- 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, as per WAC-332-24, Forest Protection requirements 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 road building equipment 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: The land surrounding the units is managed for timber production by the DNR.

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 forest.

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

The comprehensive plan designation is resource lands, forest of long term significance.

- 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.

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?

- 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?*

- 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 is no recreation facilities within the proposal area. However, hunting, hiking, horseback riding, mountain biking, mushroom and berry picking, and other dispersed outdoor recreation activities may occur within the proposal area.

- 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 at this time.

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.

*- USGS Historical maps show a Railroad in the vicinity.
No conflicts are anticipated.*

No.

- 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.

2938027

- FPRAM, USGS Historical map and GLO maps
check confirm No conflict with Archaeological or
Cultural sites or Resources. -JCT

No.

- 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 site was remotely assessed by a DNR Cultural Resource Technician, reviewing GLO and Historic maps, and recorded cultural resources.

- 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 March 2010 Cultural Resources Inadvertent Discovery Guidance.

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.

State Route 6 to Halfmoon Mainline provide access to the proposal.

- 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 35 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).

- FPA #2938027 indicates
370 feet of forest Road
Construction. -JCT

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.

2938027

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:

Maureen Crabtree
FOR Roy Franklin MAUREEN CRABTREE

Position and Agency/Organization Forester/WA DNR

Date Submitted: 08/06/2020

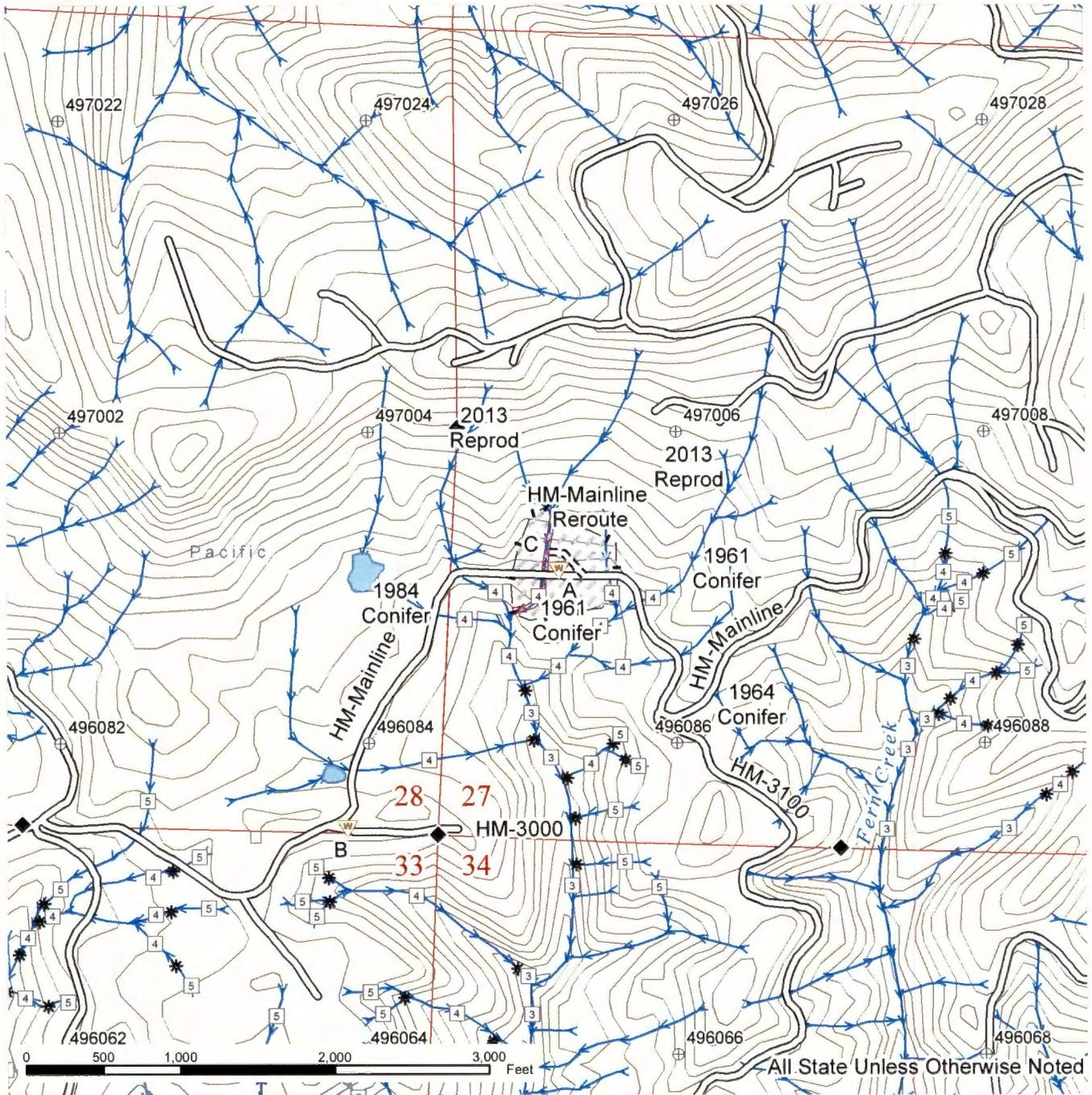
Reviewed by: John Tapley - DNR - Forest Practices / John Tapley / JET

Date: 8/11/2020

FOREST PRACTICES ACTIVITY MAP

SALE NAME: CONNECTIVITY
APPLICATION #: TBD by FP Staff

COUNTY(S): Pacific
TOWNSHIP(S): T13R6W



Potentially Unstable Slopes	Existing Roads	Stream Type
Area Reviewed	New Construction	Stream Type Break
	Streams	Waste Area
		Tics - 2000' Interval
		Survey Monument