

STATE OF WASHINGTON  
DEPARTMENT OFEcology

*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:* **DREAMER VRH**  
*Agreement #* **30-100846**

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

3. Address and phone number of applicant and contact person: **Marcus Johns**

**Pacific Cascade Region**  
**PO Box 280**  
**Castle Rock, Washington 98611-0280**  
**Phone: (360) 577-2025**  
**Contact Person: Marcus Johns**

4. Date checklist prepared: **06/06/2019**

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

6. Proposed timing or schedule (including phasing, if applicable): **None**

*a. Auction Date:* **11/19/2020**

*b. Planned contract end date (but may be extended):* **10/31/2022**

*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:*

**Site preparation, including a chemical herbicide application, may be used to ensure that planting can be achieved at acceptable stocking levels to meet or exceed Forest Practice standards following harvest within VRH units. Slash piles on landings may be burned during the fall before planting.**

*b. Regeneration Method:*

**The VRH units will be hand planted with conifer species following harvest.**

*c. Vegetation Management:*

**Possible treatments, including a chemical herbicide application, could occur following harvest within VRH units. Treatments will be based on vegetative competition, and will ensure a free-to-grow status that complies with Forest Practices standards.**

d. Other:

**Road maintenance and the L-1100 pit assessments will be conducted and will 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: **East Fork Lewis River, Rock Creek**

temp

sediment

completed TMDL (total maximum daily load)

Landscape plan:

Watershed analysis:

Interdisciplinary team (ID Team) report:

Road design plan: **04/01/2020**

Wildlife report:

Geotechnical report:

Appendix D. slope stability informational form:

Other specialist report(s): **Geologist memo 04/28/2020**

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

Rock pit plan: **04/01/2020**

Other: **Forest Practices Board Manual; Forest Practices Activity Maps; Policy for Sustainable Forests (PSF 2006); State Soil Survey; Habitat Conservation Plan (HCP 1997); DNR's State Trust Land Final Habitat Conservation Plan Amendment for the Marbled Murrelet Long-term Conservation Strategy (MM LTCS) (2019); HCP Checklist; Riparian Forest Restoration Strategy (RFRS); Land Resource Management (LRM) database, Land Resource Manager and associated maps; Road Maintenance and Abandonment Plan (RMAP): #2900971-2. 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; State Lands Geologist Remote Review (SLGRR); and Statewide Landslide Inventory (LSI) screening tool.**

Referenced documents may be obtained at the Pacific Cascade 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 # **2937975**

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:*

**Dreamer VRH is a five unit Variable Retention Harvests (VRH) timber sale in the Larch Block. This proposal will utilize ground-based harvest methods. Rock will be obtained from existing L-1100 Pit. This proposal will remove approximately 3,209 MBF of timber.**

Unit	Proposal Acres (gross)	RMZ/WMZ Acres	Potentially Unstable Slope Acres	Existing Road Acres (within unit)	Sale Acres	Leave Tree Clump Acres	Net Harvest Acres
1	43	9	0	0	34	3	31
2	31	3	0	1	27	3	24
3	22	11	*1	0	10	0	10
4	57	24	0	0	33	2	31
5	27	15	0	0	12	1	11
Totals	180	62	*1	1	116	9	107

**\*1 acre of potentially unstable slopes have been excluded from this proposal.**

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

***Pre-harvest Stand Description:***

Unit	Origin Date	Major Timber Species	Type of Harvest
1	1950, 1954	Douglas-fir, western hemlock, red alder	VRH
2	1954	Douglas-fir, western hemlock, red alder	VRH
3	1966	Douglas-fir, western hemlock, red alder	VRH
4	1940, 1948, 1952, 1985	Douglas-fir, western hemlock, red alder	VRH
5	1946	Douglas-fir, western hemlock, red alder	VRH

***Type of Harvest:***

**This proposal is a variable retention harvest for a total of 107 net acres.**

**Overall Unit Objectives:**

The objective of this proposal is:

- 1) Produce revenue for the State Forest Transfer Trust (01), Common School Trust (03) through the production of saw logs, poles and pulp material.
- 2) Provide for wildlife and riparian habitat by developing vertical stand structure and age class distribution in the future stand.

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		3,698	3	0
Reconstruction		943		0
Abandonment		4,872		0
Bridge Install/Replace	0			0
Stream Culvert Install/Replace (fish)	0			0
Stream Culvert Install/Replace (no fish)	0			
Cross-Drain Install/Replace				

There is 7,870 feet of pre-haul maintenance associated with this proposal. L-1100 pit expansion of .08 acres. All road construction and reconstruction taking place on private lands has been analyzed within this SEPA.

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:

**Units 1 and 2 are located in Section 28, Township 04 North and Range 04 East.**

**Unit 3 is located in Section 29, Township 04 North and Range 04 East.**

**Units 4 and 5 are located in Section 32, Township 04 North and Range 04 East.**

**Road construction across private located in Section 05, Township 03 North and Range 04 East.**

**L-1100 Pit is located in Section 28, Township 04 North and Range 04 East.**

*b. Distance and direction from nearest town (see the driving map listed on the DNR website for further information):*

**The proposal is located approximately 20 miles, by road, east of Battleground, Washington. The route from Battleground is via SR-503 north to Rock Creek Road, south to 152<sup>nd</sup> Ave, then east to Lucia Falls Road. Turn east onto the Sunset Falls Road, south onto Dole Valley Road. Turn east onto the L-1700 Road to Units 1-3. Units 4 and 5 are further south on the Dole Valley Road, from the L-1302 Road and the L-1301A Road.**

### *13. Cumulative Effects*

*a. Briefly describe any known environmental concerns that exist regarding elements of the environment in the associated WAU(s). (See WAC 197-11-444 for what is considered an element of the environment).*

**This proposal may temporarily affect elements of the environment including, earth, water, surface water movement/quantity/quality, soils, air quality, noise, aesthetic, plants and animals, and recreation.**

**The 303 (d) listed stream that is in the Rock Creek WAU is listed for Temperature; however, due to the relative location from the proposal area (upstream of proposal) and mitigation measures in this proposal, there should be no impact to listed water, Rock Creek. The 303 (d) streams that are in the Horseshoe Falls WAU are listed for Temperature; however, due to the distance and relative position from the proposal area (East Fork Lewis River-1 mile) and mitigation measures in this proposal, there should be no impact to listed waters.**

*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. The Department follows Forest Practices Rules as applicable to roads and potentially unstable slopes.**

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

**Approximately one acre of forested unstable slopes was found on site and was reviewed by a DNR geologist. This feature was bound out of the proposal area to protect the integrity of the slope.**

**Road cut banks will be re-vegetated with native grass seed prior to the onset of wet**

weather to reduce the risk of potential erosion, sediment delivery and soil instability.

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 defined as occurring within the next 7 years.

WAU Name	Total WAU Acres	DNR-owned 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
ROCK CREEK	21377	16240	1093	46	475
HORSESHOE FALLS	28416	5523	603	70	1370

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

## B. ENVIRONMENTAL ELEMENTS

### 1. Earth

a. General description of the site (check one):

Flat,  Rolling,  Hilly,  Steep Slopes,  Mountainous,  Other:

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

WAU: HORSESHOE FALLS  
 WAU Acres: 28416  
 Elevation Range: 614 - 4356ft  
 Mean Elevation: 1726 ft  
 Average Precipitation: 77 in./year  
 Primary Forest Vegetation Zone: Western Hemlock

WAU: ROCK CREEK  
 WAU Acres: 21377  
 Elevation Range: 614 - 4356 ft.  
 Mean Elevation: 1726 ft.  
 Average Precipitation: 77 in./year  
 Primary Forest Vegetation Zone: Western Hemlock

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 steepest approximate slope on the site is 70% in harvest units and approximately 75% in no harvest RMZs.**

- 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 entire 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
3914	SILT LOAM
9600	COBBLY LOAM
3917	SILT LOAM/STONY LOAM
7408	STONY LOAM
9606	V.COBBLY SANDY 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.

**A Deep seated landslide (DSL) is located in Section 29 of Township 04N, Range 04E, Willamette Meridian in Clark County. The State Lands Geologist completed reconnaissance of the landslide with a forester trained in potentially unstable. The DSL is not mapped in the Forest Practices Landslide Inventory GIS layer. The upper head scarp has a 1-2 foot offset and a lower scarp with an approximate 5 foot offset. This feature is recently active and classified as a Category E Rule Identified Landform.**

**A DNR State Lands geologist remotely reviewed all units of the sale utilizing historic aerial photographs, Forest Practices Statewide Landslide Inventory data, and landslide Remote Identification Model (LRIM) tool. LRIM is a screening tool which identifies areas of**

potentially unstable landforms using remote sensing data from Light Detection and Ranging (LIDAR) and slope. The results of the geologist's review, available in SLGRR (State Lands Geologist Remote Review), indicated the proposal area had potential for areas of slope instability. A forester trained in potentially unstable slopes did a field evaluation of all the units.

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

No  Yes, describe the proposed activities:

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

**The recently active portion of the landslide is encompassed in the Type 3 RMZ and bound out from the timber sale by a forester trained in potentially unstable slopes, with the guidance of the geologist. The timber sale boundary was set a minimum of two crown lengths from the upper scarp.**

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.

**Purpose: Road construction**

**Approx. cubic yard of fill: None**

**Approx. acreage new roads: 3 acres**

**Approx. acreage new landings: 1 acre**

**Fill Source: Native Material**

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):*

**Approximately 3% of the site will remain as gravel roads and landings.**

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 no harvest RMZs and WMZs will function to protect streams and wetlands from sediment delivery.**
- **Leave tree clumps were left around the headwalls of most Type 5 streams.**
- **Harvested areas will be replanted with conifer species to reestablish root bound soils.**

- **Roads will be constructed during dry weather conditions.**
- **Areas of soil exposed through road construction will be revegetated.**
- **Skid trails may be water barred post-harvest, if necessary.**
- **Skid trails may be revegetated post-harvest, if necessary.**

## 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:

**Cedar Creek, Rock Creek, East Fork Lewis River, Columbia 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)
Forested Wetland	>1 acre	2	159
Forested Wetland	>1 acre	1	150
Unnamed Stream	5	5	None
Unnamed Stream	3	2	168
Unnamed Stream	3	1	159
Unnamed Stream	3	1	150
Cedar Creek	1	1	150
Rock Creek	1	1	150

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

Leave trees were placed along portions of the most Type 5 streams. WMZs/RMZs are no harvest buffers. Wind buffers were not deemed necessary for streams greater than 5 feet wide due to the low potential for wind throw based on topography, position relative to prevailing winds, and observing RMZs and WMZs from previous timber sales in the vicinity.

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):

Trees will be felled away from all streams. Trees may be cut in RMZs and WMZs for safety or operational needs, but will be left in place to provide large woody debris functions in the riparian area.

Timber harvest may occur within approximately 150 and 159 feet (required average WMZ width) to 3 forested wetlands greater than 1 acre. Timber harvest may occur within approximately 159 feet (required average RMZ width) of one Type 3 stream, within 150 feet of one Type 3 stream and within 168 feet of two Type 3 streams. Timber harvest may occur within 150 feet of Rock Creek and within 160 feet of Cedar Creek.

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:

**Harvest may occur within the 100-year floodplain of all Type 5 streams.**

- 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.

No.

- 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)?*

**ROCK CREEK = 4.4 (mi./sq. mi.) HORSESHOE FALLS=5.7 (mi./sq.mi)  
The high number of miles per square mile may be due to the majority of the WAU and sub-basins being in an urbanized environment.**

- 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:

**During the winters of 1996, 2007, and 2009 100-year (suspected) return interval precipitation events occurred. The storms set rainfall and flood level records in Southwest Washington and Northwest Oregon. The events caused many shallow mass-wasting events. The full extent and long-term impacts across the WAU from these storms is not known due to varying ownerships. Some of the channels in the sub-basins contain erodible soils. On steeper slopes, these channels erode quickly into deeply incised draws and the eroded material is deposited on flatter stream gradients and/or where the stream channel becomes unconfined, often behind large woody debris.**

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.

**This proposal utilizes mitigation measures designed to minimize changes in peak flows, including; limiting harvest size and proximity to recent harvests, minimizing the road network, road drainage that is disconnected to streams, and wide riparian buffers. Due to these mitigation measures, no significant changes to peak flows are expected due to this proposal.**

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 no water resources down stream of this proposal. Areas of instability associated with Rock Creek and Cedar Creek are located downstream of the proposal.**

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

No       Yes, describe possible impacts:

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

**None.**

b. Ground Water:

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

from the well. Will water be discharged to groundwater? Give general description, purpose, and approximate quantities if known.

**No water will be withdrawn or discharged.**

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

**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 several private wells downstream (the closest is approximately 1 mile) from the 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:*

**Due to the distance from the proposal area, ground water amounts and timing, movements are not expected to be changed by this proposal. Based on the protection measures outlined in B.1.h, impacts to this area are not anticipated.**

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:*

**Slash or debris which enters any stream as a result of operations and which is identified by the Contract Administrator shall be removed and deposited in a stable position. Removal of slash or debris shall be accomplished in a manner that avoids damage to the natural stream bed and bank vegetation.**

**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 significant 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-a, 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:

Shrubs:

Huckleberry  Rhododendron  Salmonberry  Salal

Other: **Oregon grape, vine maple**

Ferns

Grass

Pasture

Crop or Grain

Orchards  Vineyard  Other Permanent Crops

Wet Soil Plants:

Bullrush  Buttercup  Cattail  Devil's Club  Skunk Cabbage

Other: **Water parsley**

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).*

**All conifer and hardwood trees will be removed within the proposed VRH units, except the wildlife leave trees, green recruitment trees and the vegetation within the RMZs and WMZs. Understory vegetation will be disturbed and/or reduced within the proposed harvest area as a result of timber felling, bucking, yarding and site preparation activities. Most of the vegetation will re-establish within 2-3 years after forestry activities are complete.**

- 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.)*

**Unit 1: To the north is a 70-year-old Douglas-fir RMZ and plantation. To the east is a 70-year-old Douglas-fir RMZ and 25-year-old private Douglas-fir plantation. To the south is a 17-year-old Douglas-fir plantation. To the west is a 8-year-old Douglas-fir plantation.**

**Unit 2: To the north is a 61-year-old and 8-year-old Douglas-fir plantation. To the east is an 8-year-old and 17-year-old Douglas-fir plantation. To the south is an 8-year-old Douglas-fir plantation. To the west is a 8-year-old Douglas-fir plantation and a 65-year-old Douglas-fir RMZ.**

**Unit 3: To the North is a 13-year-old Douglas-fir plantation. To the east is a 58-year-old Douglas-fir RMZ. To the south is a 53-year-old Douglas-fir RMZ. To the west is a 5-year-old private Douglas-fir plantation.**

**Unit 4: To the north and east is a 7-year-old private Douglas-fir plantation. To the south is a 70-year-old private Douglas-fir RMZ. To the west is a 76-year-old Douglas-fir RMZ.**

**Unit 5: To the north, east and west is a 76-year-old Douglas-fir RMZ. To the south is a 7-year-old Private Douglas-fir plantation.**

**The older stands (58 to 76 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 plantations (5 to 25 years old) have few snags and most of the down woody debris is scattered logs and slash from the previous harvest. Within the larger leave 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 or observed onsite.**

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

**Retention tree clumps are identified across the harvest area. Some clumps were selected for their species diversity of native flora. These clumps will provide a local seed source for native overstory and understory species. Some natural regeneration of native species will occur on site after harvest. Wildlife trees were left in areas to protect snags, large down logs, and Type 5 streams. Trees with defects such as split or broken tops, dominant crowns, large diameters and large limbs were favored as leave trees to enhance wildlife potential. Older legacy trees were identified and retained individually and in leave tree clumps.**

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

**Scotch broom and Himalayan blackberry have been observed on or near the site, concentrated mostly around roads and clearings.**

## 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*).

**None found in corporate database or onsite.**

- 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 significant impacts are anticipated as a result of this proposal.**

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

**This sale has been designed to comply with the Department's HCP and provides for the protection of wildlife and their habitats. Scattered and clumped leave trees provide nesting, roosting and foraging areas for avian species. Well engineered and constructed roads reduce potential water quality impacts for downstream fish populations. Grass seeding exposed soil aids water quality and provides forage for ungulates. Large diameter leave trees, and leave trees with unique structure, will remain post-harvest to enhance the wildlife habitat value of the future stand. The regenerated stand will be composed of conifer species.**

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

#### **Riparian Habitat**

- **No harvest RMZs on Type 1 and 3 streams**
- **No harvest WMZs on 3 forested wetlands**
- **Leave trees were placed along most Type 5 streams**

#### **Upland Habitat**

- **A minimum of 8 trees per acre were left clumped and scattered**
- **Snags will be left where operationally feasible**
- **Older large woody debris will be left onsite**

- 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, 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.

**Minimal hazards incidental to operation of heavy machinery these include the risk of fire or small amounts of oil and other lubricants being accidentally discharged.**

**Slash accumulation from harvest operations will temporarily increase risk of ground fire in red slash. Fire hazard will be mitigated through implementation of WAC-332-24. Overall risk of fire will decrease within 1-2 years of harvest completion.**

- 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 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:**

**The land surrounding the units is managed for timber production by the DNR. The private property adjacent to Units 1, 4, & 5 are owned by small private landowners and appear to be managed for timber production.**

**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.

**There are no structures associated with this proposal.**

- d. Will any structures be demolished? If so, what?

**No.**

- e. What is the current zoning classification of the site?

**All units are zoned as 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?

**There are no shorelines associated with this proposal.**

- 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:

None

- 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.

None.

- b. Approximately how many units, if any, would be eliminated? Indicate whether high, middle, or low-income housing.

None

- 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?

**There are no structures associated with this proposal.**

- b. What views in the immediate vicinity would be altered or obstructed?

**Views in the background will be temporarily altered by the removal of trees.**

- 1) *Is this proposal visible from a residential area, town, city, recreation site, major transportation route or designated scenic corridor (e.g., county road, state or interstate highway, US route, river or Columbia Gorge SMA)?*

No       Yes, name of the location, transportation route or scenic corridor:

**The proposal may be visible from the Dole Valley Road residents.**

2) *How will this proposal affect any views described above?*

**Since the majority of the landscape in this area is used for timber production (public & private), this proposal will generally blend in with the surrounding landscape. In addition, the retention tree plan discussed in B.4.b.2 will aid in mitigating the visual effects of the regeneration harvest.**

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?

**Informal recreation activities take place in the area such as hunting, horseback riding, hiking, mountain biking, and berry and mushroom picking.**

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:

**Not applicable.**

## **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.

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.

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 historic maps and existing recorded cultural resources through GIS.**

- 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.

**SR 503 to Rock Creek Rd. to NE 152<sup>nd</sup> Ave. to Lucia Falls Rd. to Sunset Falls Rd. to Dole Valley Rd. to forest roads which access the units.**

- 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:

**None.**

- 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: Mary D. Robertson

Name of signee <sup>For</sup> Amanda Taylor / Mary D. Robertson

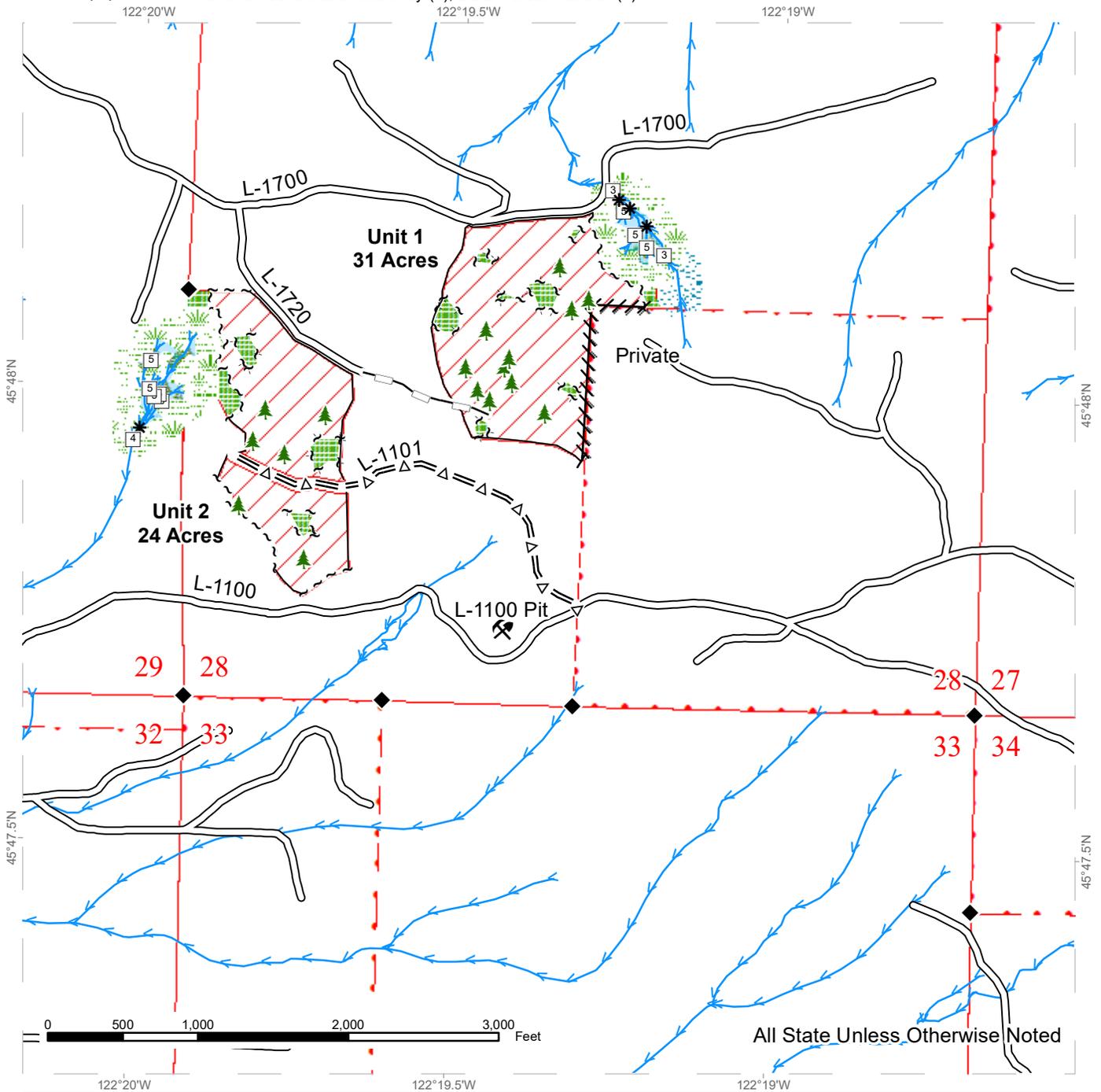
Position and Agency/Organization NRS 2/DNR NRS 3/DNR

Date Submitted: 6/10/2020 / 8/5/2020

# TIMBER SALE MAP

**SALE NAME:** DREAMER VRH  
**AGREEMENT #:** 30-100846  
**TOWNSHIP(S):** T4R4E  
**TRUST(S):** Common School and Indemnity (3), State Forest Transfer (1)

**REGION:** Pacific Cascade Region  
**COUNTY(S):** Clark  
**ELEVATION RGE:** 840-1506



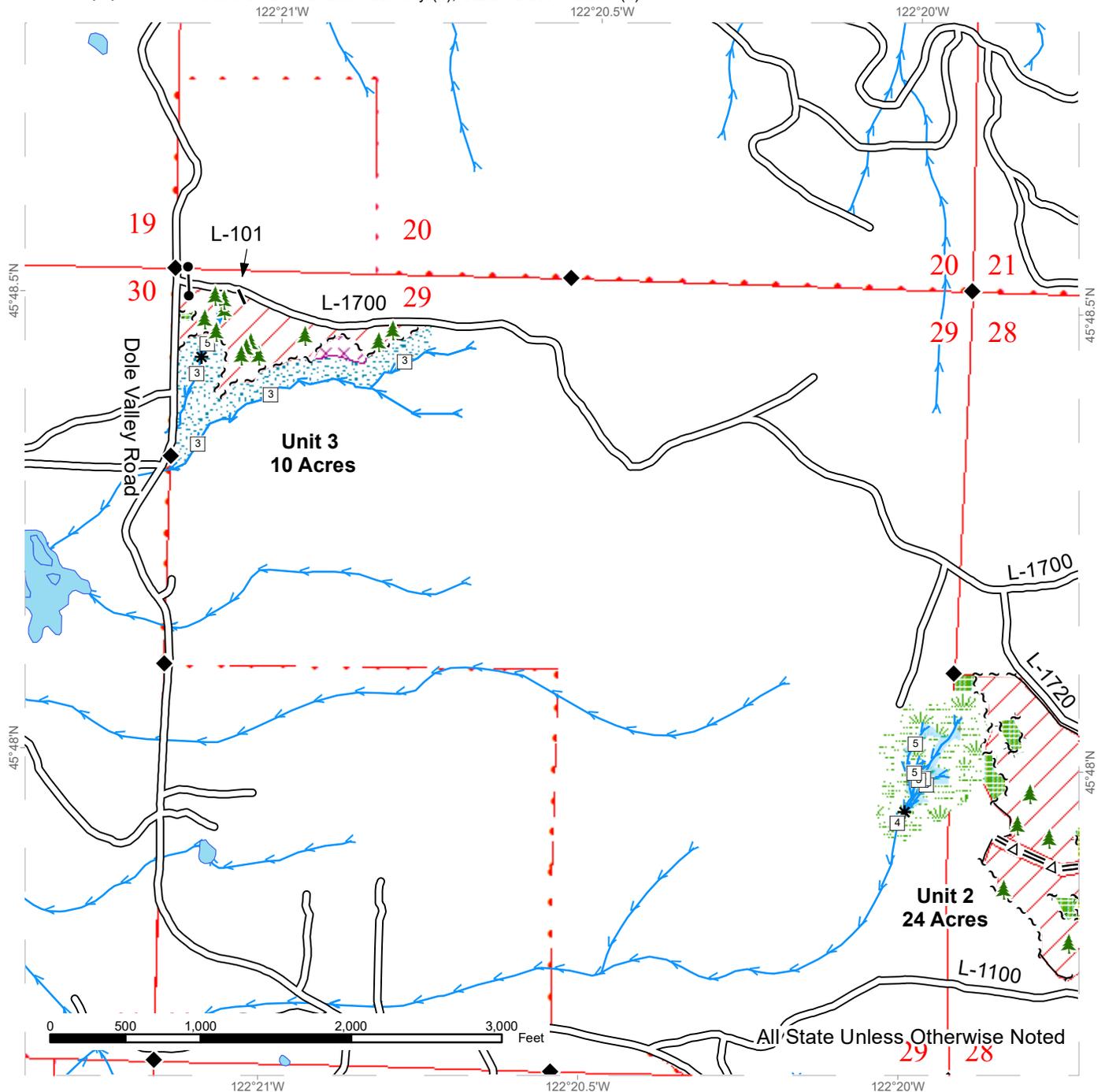
All State Unless Otherwise Noted

	Leave Tree Area		Sale Boundary Tags		Streams
	Riparian Mgt Zone		Leave Tree Tags		Stream Type
	Forested Wetland		Flag Line		Stream Type Break
	Wetland Mgt Zone		Timber Type Change		Survey Monument
	Existing Roads		Optional Pre-Haul Maintenance		Leave Tree Area <1/4-acre
	Optional Pre-Haul Maintenance		Optional Reconstruction		Rock Pit
	Optional Reconstruction				

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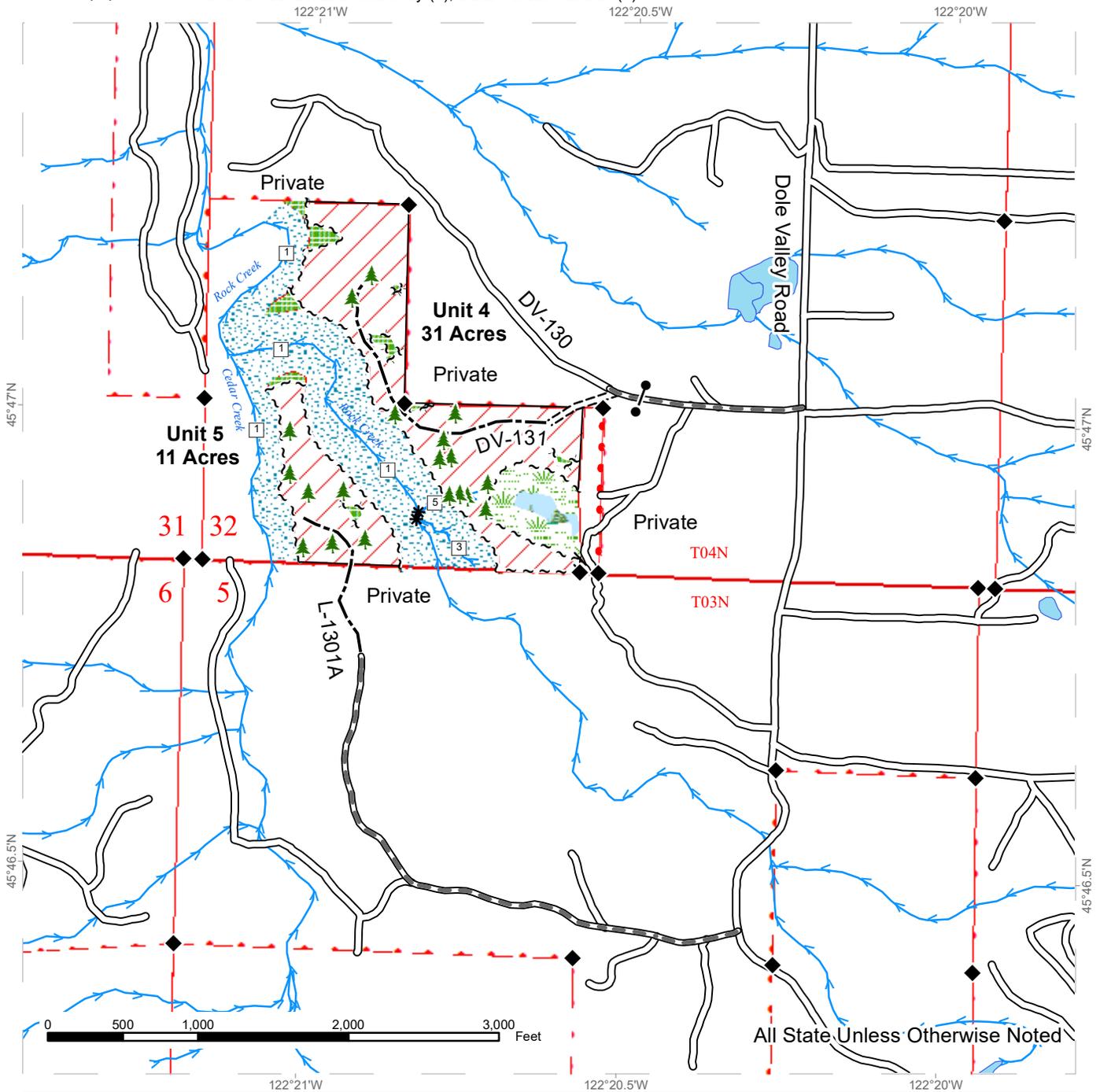
All State Unless Otherwise Noted

	Leave Tree Area		Sale Boundary Tags		Streams
	Riparian Mgt Zone		Leave Tree Tags		Stream Type
	Forested Wetland		Timber Type Change		Stream Type Break
	Wetland Mgt Zone				Survey Monument
	Potentially Unstable Slopes				Leave Tree Area <1/4-acre
	Existing Roads				
	Optional Pre-Haul Maintenance				
	Optional Construction				

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All State Unless Otherwise Noted

	Leave Tree Area		Sale Boundary Tags		Streams
	Riparian Mgt Zone		Leave Tree Tags		Stream Type
	Forested Wetland		Property Line		Stream Type Break
	Wetland Mgt Zone		Flag Line		Survey Monument
	Existing Roads		Timber Type Change		Leave Tree Area <1/4-acre
	Required Pre-Haul Maintenance				
	Required Construction				
	Optional Construction				