

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> under "SEPA Center." 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:

NINEBARK SORTS

Agreement # 30-092723

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

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

Robert Hechinger

225 S. Silke Rd.

Colville, WA 99114

509.684.7474

4. Date checklist prepared: **07/01/2015**

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

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

a. *Auction Date:* **03/29/2016**

b. *Planned contract end date (but may be extended):* **12/31/2016. Road work completed by 07/31/2017.**

c. *Phasing:*

7. Do you have any plans for future additions, expansion, or further activity related to or connected with this proposal? If yes, explain.

Timber Sale:

a. Site preparation:

TSU NO :1	GROUND HERB	07/15/2017	93 Acres
TSU NO :1	PILE & BURN	11/1/2017	1 Acre
TSU NO :2	GROUND HERB	07/15/2017	19 Acres
TSU NO :2	PILE & BURN	11/1/2017	1 Acre
TSU NO :3	GROUND HERB	07/15/2017	65 Acres
TSU NO :3	PILE & BURN	11/1/2017	1 Acre
TSU NO :4	GROUND HERB	07/15/2017	17 Acres
TSU NO :4	PILE & BURN	11/1/2017	1 Acre
TSU NO :5	GROUND HERB	07/15/2017	2 Acres
TSU NO :5	PILE & BURN	11/1/2017	1 Acre

b. Regeneration Method:

TSU NO :1	HAND PLANT	05/15/2018	93 Acres
TSU NO :2	HAND PLANT	05/15/2018	19 Acres
TSU NO :3	HAND PLANT	05/15/2018	65 Acres
TSU NO :4	HAND PLANT	05/15/2018	17 Acres
TSU NO :5	HAND PLANT	05/15/2018	2 Acres

c. Vegetation Management:

TSU NO :1	SEED GRASS	10/1/2017	1 Acre
TSU NO :2	SEED GRASS	10/1/2017	1 Acre
TSU NO :3	SEED GRASS	10/1/2017	1 Acre
TSU NO :4	SEED GRASS	10/1/2017	1 Acre

d. Thinning:

No

Roads:

See A.11. Road assessments will be conducted annually and may include ditch and culvert cleanout and road grading as necessary to minimize erosion and failures.

Rock Pits and/or Sale:

The contract will allow the contractor to haul rock from potential rock sources found on site. If suitable rock is not found on site, then rock will be hauled from an off-site source.

Other:

Fire wood cutting from slash piles may occur. Slash piles may be chipped for biomass if economically feasible.

8. List any environmental information you know about that has been prepared, or will be prepared, directly related to this proposal.

- 303 (d) – listed water body in WAU: temp sediment completed TMDL (total maximum daily load): Middle Fork Calispell Creek, North Fork Calispell Creek
- Landscape plan:
- Watershed analysis:
- Interdisciplinary team (ID Team) report:
- Road design plan: DNR draft road plan dated 6/16/15
- Wildlife report:
- Geotechnical report:
- Other specialist report(s):
- Memorandum of understanding (sportsmen's groups, neighborhood associations, tribes, etc.):
- Rock pit plan:
- Other: GIS generated WAU maps reporting: soil types, mass wasting potential, erosion potential, soil stability and habitat typing; DNR TRAX; DNR Smoke Management Plan; State Soil Survey; Policy for Sustainable Forests, "Identifying Old Trees and Forests in Eastern Washington" by Robert Van Pelt, September 2008; and DNR Road Maintenance and Abandonment Plan No. 2303739.

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.

- FHPA Burning permit Shoreline permit Incidental take permit Existing HPA Other:

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

a. Complete proposal description:

The Ninebark Sorts timber sale is located in Section 16, Township 32 North, Range 42 East, W.M. There are five even-aged harvest units encompassing approximately 202 gross acres and 196 net acres. Approximately 3,925 thousand board feet (MBF) of timber will be harvested.

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

All units will be a Variable Retention Harvest that will provide income for the trust beneficiaries and promote long term site productivity.

Unit 1 is 96 gross acres and 93 net acres. Stand is comprised of 8% Douglas-fir, 29% grand fir, 2% lodgepole pine, 44% western redcedar, 8% western hemlock, and 9% western larch. Stand origin date is 1952. The unit will be an even-aged harvest leaving six trees per acre. Leave trees will be left in a scattered and clumped arrangement. Unit will be planted at 250 trees per acre with western larch, western white pine, and western redcedar. Unit will be harvested using ground based systems.

Unit 2 is 20 gross acres and 19 net acres. Stand is comprised of 7% Douglas-fir, 30% grand fir, 53% western redcedar, and 10% western larch. Stand origin date is 1930. The unit will be an even-aged harvest leaving six trees per acre. Leave trees will be left in a scattered and clumped arrangement. Unit will be planted at 250 trees per acre with western larch, western white pine, and western redcedar. Unit will be harvested using ground based systems.

Unit 3 is 67 gross acres and 65 net acres. Stand is comprised of 5% Douglas-fir, 31% grand fir, 34% western redcedar, 17% western hemlock, 11% western larch, and 2% western white pine. Stand origin date is 1953. The unit will be an even-aged harvest leaving six trees per acre. Leave trees will be left in a scattered and clumped arrangement. Unit will be planted at 250 trees per acre with western larch, western white pine and western redcedar. Unit will be harvested using ground based systems.

Unit 4 is 17 gross acres and 17 net acres. Stand is comprised of 8% Douglas-fir, 29% grand fir, 2% lodgepole pine, 44% western red-cedar, 8% western hemlock, and 9% western larch. Stand origin date is 1952. The unit will be an even-aged harvest leaving six trees per acre. Leave trees will be left in a scattered and clumped arrangement. Unit will be planted at 250 trees per acre with western larch, western white pine, and western redcedar. Unit will be harvested using ground based systems.

Unit 5 is 2 gross acres and 2 net acres. Stand composition is comprised of 8% Douglas-fir, 29% grand fir, 2% lodgepole pine, 44% western red-cedar, 8% western hemlock, and 9% western larch. Stand origin date is 1952. The unit will be an even-aged harvest leaving six trees per acre. Leave trees will be left in a scattered and clumped arrangement. Unit will be planted at 250 trees per acre with western larch, western white pine, and western redcedar. Unit will be harvested using ground based systems.

c. Road activity summary. See also forest practice application (FPA) for maps and more details.

Type of Activity	How Many	Length (feet) (Estimated)	Acres (Estimated)	Fish Barrier Removals (#)
Construction		0	0	0
Reconstruction		7,495		0
Abandonment		0	0	0
Bridge Install/Replace	0			0
Culvert Install/Replace (fish)	0			0
Culvert Install/Replace (no fish)	0			

Additionally, approximately 28,065 feet of pre-haul maintenance will occur with this proposal. There may be up to 599 feet of additional new road construction within the sale area in the form of short spurs to facilitate access, protect public resources, maintain ingress and egress, or provide for safety.

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.

a. Legal description: :

T32N R42E S16

b. Distance and direction from nearest town (include road names):

From Chewelah, WA, travel east on Flowery Trail Road approximately 12.3 miles to USFS 4347 road. Travel south on the USFS 4347 road approximately 2.2 miles to the USFS 580 road. Travel north on the USFS 580 road to Units 1, 2, 4, and 5. Continue south on the USFS 4347 road approximately 0.7 miles to Unit 3.

c. Identify the names of all watershed administrative units (WAU). See also landscape/WAU map on DNR website: <http://www.dnr.wa.gov/ResearchScience/sepa/Pages/Home.aspx> under the topic "Current SEPA Project Actions – Timber Sales" for a broader landscape perspective.

WAU Name	WAU Acres	Proposal Acres
NF CALISPELL CREEK	36023.1	202

13. Discuss any known future activities not associated with this proposal that may result in a cumulative change in the environment when combined with the past and current proposal(s). (See digital ortho-photos for WAU and adjacency maps on DNR website <http://www.dnr.wa.gov> under "SEPA Center for a broader landscape perspective.")

The N.F. Calispell Creek WAU totals 36,023 acres. DNR-managed lands comprise approximately 3% of the ownership in the WAU. All units of this proposal are within this WAU. The proposal comprises less than 1% of the WAU. Within the last seven years, DNR has not harvested any land within this WAU. DNR does not have any additional harvests planned in the near future.

Federal ownership makes up 66% and private land comprises approximately 31% of the remaining lands in the N.F. Calispell Creek WAU. Non-industrial private landowners are scattered in the WAU, along with both small and large blocks of private industrial landowners. Of the 34,834 acres not managed by the DNR, approximately 5% has been harvested in the last seven years. Approximately 2% have been even-aged harvests and 3% have been uneven-aged harvests. It is not known how much and/or when other landowners with active Forest Practice applications will conduct harvests on their ownership within the WAU. Uneven-aged harvests have occurred on federal lands within the last seven years, but acreages are unknown. The USFS will be conducting more uneven-aged harvests in the near future, but the acreage is unknown.

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 WAU or sub-basin(s) (landforms, climate, elevations, and forest vegetation zone).

The N.F. Calispell Creek WAU extends from Nelson Peak and Boyer Mountain on the south end to Chewelah Mountain and Goddards Peak on the north end. The eastern portion of the WAU is relatively flat near Calispell Lake. The remainder of the WAU is more mountainous with some steeper slopes. The elevation range is between 2,077 ft. to 5,764 ft. The mean elevation is 3,717 ft.

Within the N.F. Calispell Creek WAU, the average annual precipitation is 35 inches per year, with warm dry summers and cold snowy winters. Approximately 23% of the WAU is within the peak rain-on-snow zone. Two percent of the WAU is in the highland zone, and 75% of the WAU is in the snow dominated zone. Vegetation within the WAU varies with aspect. The east and south aspects are dominated by western larch and ponderosa pine. The north and west aspects are dominated with western redcedar, grand fir, and Douglas-fir. The vegetation zone is interior cedar-hemlock.

2) Identify any difference between the proposal location and the general description of the WAU or sub-basin(s).

The timber sale units are in the more mountainous areas of the WAU towards Chewelah Mountain. The elevation range is 3,280 ft. to 4,240 ft.

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

Unit 1: 50%
 Unit 2: 40%
 Unit 3: 65%
 Unit 4: 35%
 Unit 5: 40%

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 a roll-up of general soils information for the soils found in the entire sale area. It is only one of several site assessment tools used in conjunction with actual site inspections for slope stability concerns or erosion potential. It can help indicate potential for shallow, rapid soil movement, but often does not represent deeper soil sub-strata. The actual soils conditions in the sale area may vary considerably based on land-form shapes, presence of erosive situations, and other factors. The state soil survey is a compilation of various surveys with different standards.

State Soil Survey #	Soil Texture	% Slope	Acres	Mass Wasting Potential	Erosion Potential
3018	HUCKLEBERRY-ROCK OUTCROP-COMPLEX	30-65	98	No Data	No Data
8760	SILT LOAM	30-65	42	MEDIUM	HIGH
8758	SILT LOAM	30-65	41	MEDIUM	HIGH
3017	SILT LOAM	40-65	21	MEDIUM	HIGH

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

1) *Surface indications:*

No surface indications or history of unstable soils are known within the immediate vicinity of the proposal.

2) *Is there evidence of natural slope failures in the sub-basin(s)?*

No Yes, type of failures (shallow vs. deep-seated) and failure site characteristics:

3) *Are there slope failures in the sub-basin(s) associated with timber harvest activities or roads?*

No Yes, type of failures (shallow vs. deep-seated) and failure site characteristics:

Associated management activity:

4) *Is the proposed site similar to sites where slope failures have occurred previously in the sub-basin(s)?*

No Yes, describe similarities between the conditions and activities on these sites:

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

Coordinated timber harvest skidding patterns, appropriate landing locations, effective contract administration, and road maintenance will minimize erosion potential. Water bars, drivable dips, ditching, cross drains, outsloping, monitoring, and revegetation will be utilized. In addition, see B.1.h.

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

Approx. acreage new roads: 0.0 *Approx. acreage new landings:* 5.75 *Fill Source:* On-site material

f. Could erosion occur as a result of clearing, construction, or use? If so, generally describe.

Surface erosion may occur on road cut and fill slopes, especially during storms and spring runoff. None is foreseen to discharge into typed water due to minimal stream crossings and proper road design incorporating effective water control structures. Hauling will be restricted during wet weather conditions and spring break-up, including county roads. Non-erodible surface material will be placed where necessary.

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 2.4% of the proposal will be covered in native surface and 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.)*

No felling, skidding or hauling activities will occur during spring break-up, from February 15 to May 1, unless otherwise approved by the contract administrator. Harvest and haul activities will be monitored and restricted when needed to prevent sediment delivery into streams. Roads have been designed with drivable dips, insloped or outsloped, ditched, crowned and cross-drained to minimize erosion potential and conduct water onto naturally vegetated forest floors. Energy dissipating structures will be placed at the outfall of cross drains where necessary to prevent erosion. Culvert headwalls will be armored where necessary. Skid trails will be grass seeded, water barred and have a debris mat scattered where necessary. Cut and fill slopes will be grass seeded where 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.

This proposal will involve vehicle emissions and dust from logging, skidding, road construction and hauling. Pile burning will adhere to the state's Smoke Management Program.

- b. Are there any off-site sources of emissions or odor that may affect your proposal? If so, generally describe.

No.

- c. Proposed measures to reduce or control emissions or other impacts to air, if any:

Dust abatement will be required on all roads used for hauling from Jul 1 to Oct 15, no additional measures to reduce or control emissions or other impacts to air are anticipated.

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 timber sale map available at DNR region office, or forest practice application base maps.)

a. Downstream water bodies:

The North Fork of Calispell Creek flows through the valley separating Units 1, 2, 4 and 5 from Unit 3, however units are not located close enough to require an RMZ buffer All Type F and Np streams that lie adjacent to the sale area flow into North Fork Calispell Creek, which then flows into Tenmile Creek.

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)
Un-named	F	1	110'
Un-named	F	1	90'
Un-named	Np	8	50'

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

Type Np streams will have a 50 foot no harvest RMZ per side. The Type F streams on Site Class II ground will have a 110 foot RMZ. Harvesting will occur in the 35 foot outer zone of the RMZ. At least 15 trees per acre will be left in the outer zone after harvest. The Type F streams on Site Class III ground will have a 90 foot RMZ. Harvesting will occur within the 15 foot outer zone of the RMZ. At least 15 trees per acre will be left in the outer zone after harvest. The entire proposal is within the Bull Trout overlay, but no inner zone harvest will be occurring.

- 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 map available at DNR region office.)

Description (include culverts):

Prehaul maintenance and light reconstruction will occur on existing roads over Type Np waters. Harvest, skidding and hauling will occur within 200 feet of the described waters. See B.3.a.1.c.

- 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 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.

No Yes, type and volume:

7) Does the sub-basin contain soils or terrain susceptible to surface erosion and/or mass wasting? What is the potential for eroded material to enter surface water?

Yes, within the sub-basin, naturally occurring surface erosion is an ongoing process with or without management activities. Approximately 49% of the N.F. Calispell Creek WAU has high soil erosion potential and 13% has high mass wasting potential. Techniques mentioned in B.1.h. are expected to reduce the potential for surface erosion and mass wasting materials to enter surface water.

8) Is there evidence of changes to the channels in the WAU and sub-basin(s) due to surface erosion or mass wasting (accelerated aggradations, erosion, decrease in large organic debris (LOD), change in channel dimensions)?

No Yes, describe changes and possible causes:

There is evidence of changes to channels associated with erosion caused by natural aggradation within the WAU. This change is evident especially on the larger stream bodies such as North Fork Calispell Creek and Tenmile Creek.

9) Could this proposal affect water quality based on the answers to the questions 1-8 above?

No Yes, explain:

There is little or no adverse impact to stream flow or water quality anticipated as a result of activities associated with this proposal. Sale unit designs, skidding patterns, operating seasons, and prescriptions are expected to minimize the potential for adverse impacts. Techniques mentioned in B.1.h. are expected to reduce the potential for surface erosion and mass wasting materials to enter surface water.

10) What are the approximate road miles per square mile in the WAU and sub-basin(s)?

Are you aware of areas where forest roads or road ditches intercept sub-surface flow and deliver surface water to streams, rather than back to the forest floor?

No Yes, describe:

N.F. Calispell Creek WAU road miles per square mile: 4.5

11) Is the proposal within a significant rain-on-snow (ROS) zone? If not, **STOP HERE** and go to question B-3-a-13 below. Use the WAU or sub-basin(s) for the ROS percentage questions below.

No Yes, approximate percent of sub-basin(s) in significant ROS zone:

Or, approximate percent of WAU:

12) If the proposal is within the significant ROS zone, what is the approximate percentage of the WAU or sub-basin(s) within the significant ROS zone (all ownerships) that is (are) rated as hydrologically mature?

13) Is there evidence of changes to channels associated with peak flows in the WAU and sub-basin(s)?

No Yes, describe observations in the WAU and in the sub-basin(s):

14) Based on your answers to questions B-3-a-10 through B-3-a-13 above, describe whether and how this proposal, in combination with other past, current, or reasonably foreseeable proposals in the WAU and sub-basin(s), may contribute to a peak flow impact.

Based on aerial photos, site visits, and GIS data this proposal was determined to be well below the threshold for potential impacts to peak flow. At the completion of this proposal, it is expected to remain below the threshold for peak flows.

Several protection measures have been designed within this proposal to minimize any contribution to peak flow events. Coordinated skidding patterns and landing locations, effective contract administration, and normal road maintenance is expected to minimize erosion potential within and adjacent to the proposal area. Water bars, drivable dips, ditching, cross drains, out sloping, monitoring and revegetation of cut

slopes and skid trails will be used as needed to minimize the potential for soil erosion, mass wasting events, and contribution to peak flows within the WAU. Road construction, hauling, yarding and felling may be suspended if wet weather conditions threaten public resources within the sale area or along the haul routes. Hauling on all roads may be suspended during spring break up, or during wet conditions that would cause significant rutting of road surfaces. Drainage structures will be used where appropriate to minimize the risk of erosion. Proper road maintenance and drainage along the haul route will ensure any runoff is dispersed on the forest floor. All units will be replanted following completion of the sale to ensure re-establishment of forest cover.

15) *Is there water resource (public, domestic, agricultural, hatchery, etc.), or area of slope instability, downstream or downslope of the proposed activity that could be affected by changes in surface water amounts, quality, or movements as a result of this proposal?*

No Yes, possible impacts:

16) *Based on your answers to questions B-3-a-10 through B-3-a-15 above, note any protection measures addressing possible peak flow/flooding impacts.*

See B.1.h for additional protection measures and haul restrictions.

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 ground water will be withdrawn. Ground water recharge directly below culvert outlets may increase slightly. Reduction in water quality is not expected to occur as a result of activities from this proposal.

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.*

No waste materials will be discharged into the ground. No lubricants will be disposed of on site.

3) *Is there a water resource use (public, domestic, agricultural, hatchery, etc.), or area of slope instability, downstream or down slope of the proposed activity that could be affected by changes in groundwater amounts, timing, or movements as a result this proposal?*

No Yes, describe:

a. *Note protection measures, if any.*
No additional protection measures needed. See B.1.h.

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.*

Snowmelt and rain are the main sources of water runoff. Runoff will be collected by road ditches and diverted through cross drain culverts onto the forest floor. Drainage structures will be located to prevent runoff from directly entering stream channels. No ditched water will directly flow into any typed waters. In addition, roads will be outsloped, crowned and drivable dips will be utilized where appropriate.

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

No Yes, describe:

a. *Note protection measures, if any.*
See B.3.b.3.

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

See B.1.h for protection measures in addition to those listed in the above sections.

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-16, B-3-b-3-a, and B-3-c-2-a.)

See B.1.h for protection measures in addition to those listed in the above sections.

4. Plants

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

- deciduous tree:
 - alder, maple, aspen, cottonwood, western larch, birch, other:
- evergreen tree:
 - Douglas fir, grand fir, Pacific silver fir, ponderosa pine, lodgepole pine, western hemlock, mountain hemlock, Englemann spruce, Sitka spruce, red cedar, yellow cedar, other:
- shrubs:
 - huckleberry, salmonberry, salal, other: ninebark, oceanspray
- grass
- pasture
- crop or grain
- wet soil plants:
 - cattail, buttercup, bullrush, skunk cabbage, devil's club, other:
- water plants:
 - water lily, eelgrass, milfoil, other:
- other types of vegetation:
- plant communities of concern:

b. What kind and amount of vegetation will be removed or altered? (See answers to questions A-11-a, A-11-b, B-3-a-1-b and B-3-a-1-c. The following sub-questions merely supplement those answers.)

This proposal will remove approximately 3,925 MBF of mixed conifer timber.

- 1) Describe the species, age, and structural diversity of the timber types immediately adjacent to the removal area. (See color landscape/WAU and adjacency maps on the DNR website: <http://www.dnr.wa.gov/ResearchScience/sepa/Pages/Home.aspx> (Click on the DNR region under the Topic "Current SEPA Project Actions - Timber Sales."))

The timber adjacent to the harvest units consists of mixed conifer stands with ages ranging from 20 to 150 years old. All units are adjacent to state, private, or federal ownership. Private and state ownership adjacent to harvest units was harvested approximately 20 years ago in an even-aged management regime. Federal ownership is being harvested currently for a forest health treatment leaving a minimum of 20 to 30 trees per acre.

- 2) Retention tree plan:

Leave tree preferences were based upon species, health, size, vigor, location, dominance and their value to wildlife. Legacy and other leave trees are marked to leave with blue paint. All units will leave six trees per acre greater than ten inches DBH. See prescription details in A.11.b.

The Department of Natural Resources Legacy Tree Procedure and Forest Practice requirements will be met with this proposal.

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

None known.

TSU Number	FMU_ID	Common Name	Federal Listing Status	WA State Listing Status
None Found In Database Search				

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

Following the harvest, reforestation will consist of planting an average of 250 trees per acre of various commercial conifer species in addition to natural regeneration in all units. Landings and cut banks will be grass seeded.

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

None known.

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: hawk, heron, eagle, songbirds, pigeon, other:
 mammals: deer, bear, elk, beaver, other: moose, wolf, grizzly bear
 fish: bass, salmon, trout, herring, shellfish, other:
 unique habitats: talus slopes, caves, cliffs, oak woodlands, balds,
mineral springs

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

TSU Number	FMU_ID	Common Name	Federal Listing Status	WA State Listing Status
1	87993	Lynx	Threatened	Threatened
3	93020	Silver-haired bat	No Data	No Data

- c. Is the site part of a migration route? If so, explain.
Pacific flyway Other migration route: Explain if any boxes checked:

All of Washington 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: Bull trout Protection Measures: The entire proposal lies within the bull trout overlay, however, no inner zone harvest will be occurring.

Species /Habitat: Lynx Protection Measures: The northwestern tip (0.37 ac) of Unit 1 lies within the Chewelah Lynx Analysis Unit (LAU #220). There is a designated travel corridor located 170 feet from the unit boundary. No impacts are anticipated to the corridor. There will be no harvest within the travel corridor.

Species /Habitat: Grizzly bear Protection Measures: Grizzly bears may wander through the project area on rare occasions but this area is not within a recognized grizzly bear recovery zone. No specific protections measures are required.

Species /Habitat: Gray wolf Protection Measures: See Forest Practices Critical Habitat Rule

No harvest, timber hauling, road construction, or site preparation will occur within one mile of an occupied gray wolf den site from March 15 to July 30 or within 1/4 mile of a confirmed gray wolf den site at other times of the year. No known wolf dens are known to exist within one mile of the project area.

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

None known at this time.

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.

No energy source will be needed.

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

Removal of trees will not adversely affect any potential use of solar energy.

- 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 needed.

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.

Fuels and oils will be utilized for equipment maintenance and operation onsite for the duration of the proposal. A spill kit will be required onsite at all times to mitigate any potential negative impacts in the event of a spill. Washington Department of Ecology and Department of Natural Resources will be notified in the event of any significant hazardous material spill.

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

There is no known contamination at the site from past or present uses. If any hazardous material spill occurs, the Washington Department of Ecology and the Department of Natural Resources will be notified and appropriate control measures will be taken.

- 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.

There are no known gas or oil pipelines in the vicinity of the proposal.

- 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.

Diesel fuel and lubricants will be used onsite for the duration of this proposal. Hazardous material spill kits will be required to be onsite at all times during operation.

- 4) Describe special emergency services that might be required.

Washington Department of Ecology will be notified if any significant spills occur and appropriate action will be taken. Department of Natural Resources is available for fire suppression. Emergency medical or air ambulance may be notified for personal injuries.

- 5) Proposed measures to reduce or control environmental health hazards, if any:

Compliance with existing state laws regarding environmental health hazards. Fire suppression equipment will be required on site during fire season. Compliance with DNR's smoke management plan will be required for pile burning following the sale.

- b. Noise

- 1) What types of noise exist in the area which may affect your project (for example: traffic, equipment, operation, other)?

There are no noises present that will affect the proposal.

- 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.

During road construction, maintenance and harvest activities, there will be some noise associated with heavy equipment, chain saws and log truck operations.

- 3) Proposed measures to reduce or control noise impacts, if any:

None needed.

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.*)

This site is currently used for timber production and dispersed recreational activities such as hunting and hiking. The USFS 4347 Road is groomed in the winter for a snowmobile use area. All surrounding land is owned by large industrial landowners and the US Forest Service and is currently used for timber production and recreational activities.

- 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?

The site has not been used as working farmlands. The proposal area has been utilized as working forest lands in the past. No land will be converted to any other uses as a result of the proposal.

- 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, there should be no effect on any other forest operations, nor should there be any effect on this proposal. If adjacent landowners have any forest operations, there may be increased vehicle traffic in the area.

- c. Describe any structures on the site.

None.

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

None.

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

Commercial forest land.

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

Rural.

- 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:

Not applicable.

- l. Proposed measures to ensure the proposal is compatible with existing and projected land uses and plans, if any:

This proposal shall maintain and/or enhance compatibility with existing and projected land uses such as timber production, dispersed recreational activities, and use by wildlife for forage, travel, and cover.

- m. Proposed measures to ensure the proposal is compatible with nearby agricultural and forest lands of long-term commercial significance, if any:

No additional measures are anticipated.

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?

Not applicable.

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

- 1) *Is this proposal visible from a residential area, town, city, developed recreation site, or a scenic vista?*

No Yes, viewing location:

- 2) *Is this proposal visible from a major transportation or designated scenic corridor (county road, state or interstate highway, US route, river, or Columbia Gorge SMA)?*

No Yes, scenic corridor name:

- 3) *How will this proposal affect any views described in 1) or 2) above?*

Not applicable.

- c. Proposed measures to reduce or control aesthetic impacts, if any:

In all units of the proposal, at least six trees per acre have been left as leave trees. Seedlings will be planted in the units following timber harvest activities.

11. Light and glare

- a. What type of light or glare will the proposal produce? What time of day would it mainly occur?

Possible glare from logging equipment during daylight hours.

- b. Could light or glare from the finished project be a safety hazard or interfere with views?

No safety hazard from light or glare should exist from the finished project.

- c. What existing off-site sources of light or glare may affect your proposal?

No offsite light or glare will affect the proposal.

- 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?

Hunting and hiking opportunities exist in the vicinity of the proposal. During winter months, the USFS 4347 road is groomed for snowmobile and cross-country ski users. 49 Degrees North Ski Area is located approximately 1.5 miles NW of the proposal area. There are no anticipated impacts on the 49 Degrees North Ski Area.

- b. Would the proposed project displace any existing recreational uses? If so, describe.

During logging operations, there may be temporary displacement of hunters and other recreational users on the project site. Landowner will work with the USFS to minimize any negative impacts to winter snowmobile use.

- c. Proposed measures to reduce or control impacts on recreation, including recreation opportunities to be provided by the project or applicant, if any:

There will be short term impacts during operation of this proposal, not anticipated to last longer than one winter season. Landowner will work with the USFS to minimize any negative impacts to winter recreational use.

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 located on or near the site? If so, specifically describe.

None are expected to be affected by the proposal.

- 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.

DNR TRAX reports were utilized to locate any cultural and historic resources. No resources were found on the proposal area.

- 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 possible cultural resource site(s) were to be discovered in the future it will be addressed by:

- 1) Ceasing operations that may affect the discovered site.
- 2) Physically identify the site on the ground, so that the resource can be mapped and impacts mitigated (a buffer if necessary).
- 3) Contact the region state lands assistant and district manager, and work in collaboration on timing, confidentiality and notification of tribes or other affected parties.

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.

Forest roads are used to access the proposal off of Flowery Trail Road. There are no other public roads accessing the site.

- 1) *Is it likely that this proposal will contribute to an existing safety, noise, dust, maintenance, or other transportation impact problem(s)?*

There will be additional traffic from personal vehicles and log trucks on the forest roads. Signs will be posted to notify the public that harvest activities are in operation. Increased dust and noise may be a result of the additional vehicle traffic.

- 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?

Not applicable.

- 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).

See A.11.c.

- 1) *How does this proposal impact the overall transportation system/circulation in the surrounding area, if at all?*

This proposal should have no significant impact on the current transportation system. Any impact will be temporary and limited to the period of time during which operations are being conducted. Access to existing roads in the sale area may be restricted during operations.

- 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 nonpassenger vehicles). What data or transportation models were used to make these estimates?

Log hauling may involve approximately 10 to 20 loads per day during the course of operations only.

- 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.

There should be no effects due to movement of forest products on the roads in the area of the proposal.

- 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.

None.

- b. Proposed measures to reduce or control direct impacts on public services, if any.

None.

16. Utilities

- a. Check utilities currently available at the site:

electricity natural gas water refuse service telephone sanitary sewer
 septic system other:

- b. Describe the utilities that are proposed for the project, the utility providing the service, and the general construction activities on the site or in the immediate vicinity which might be needed.

None.

C. SIGNATURE

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

Signature: Robert Hechinger

Name of signee Robert Hechinger

Position and Agency/Organization Proprietary Forester NE Region WADNR

Date Submitted: 10/19/15

DRIVING MAP

SALE NAME: NINEBARK SORTS
AGREEMENT#: Not Defined.
TOWNSHIP(S): T32R42E
TRUST(S): Common School and Indemnity(3)

REGION: Northeast Region
COUNTY(S): STEVENS
ELEVATION RGE: 3285-4244



- Timber Sale Unit
- County Road
- Haul Route
- Other Route
- Milepost Markers

DRIVING DIRECTIONS:

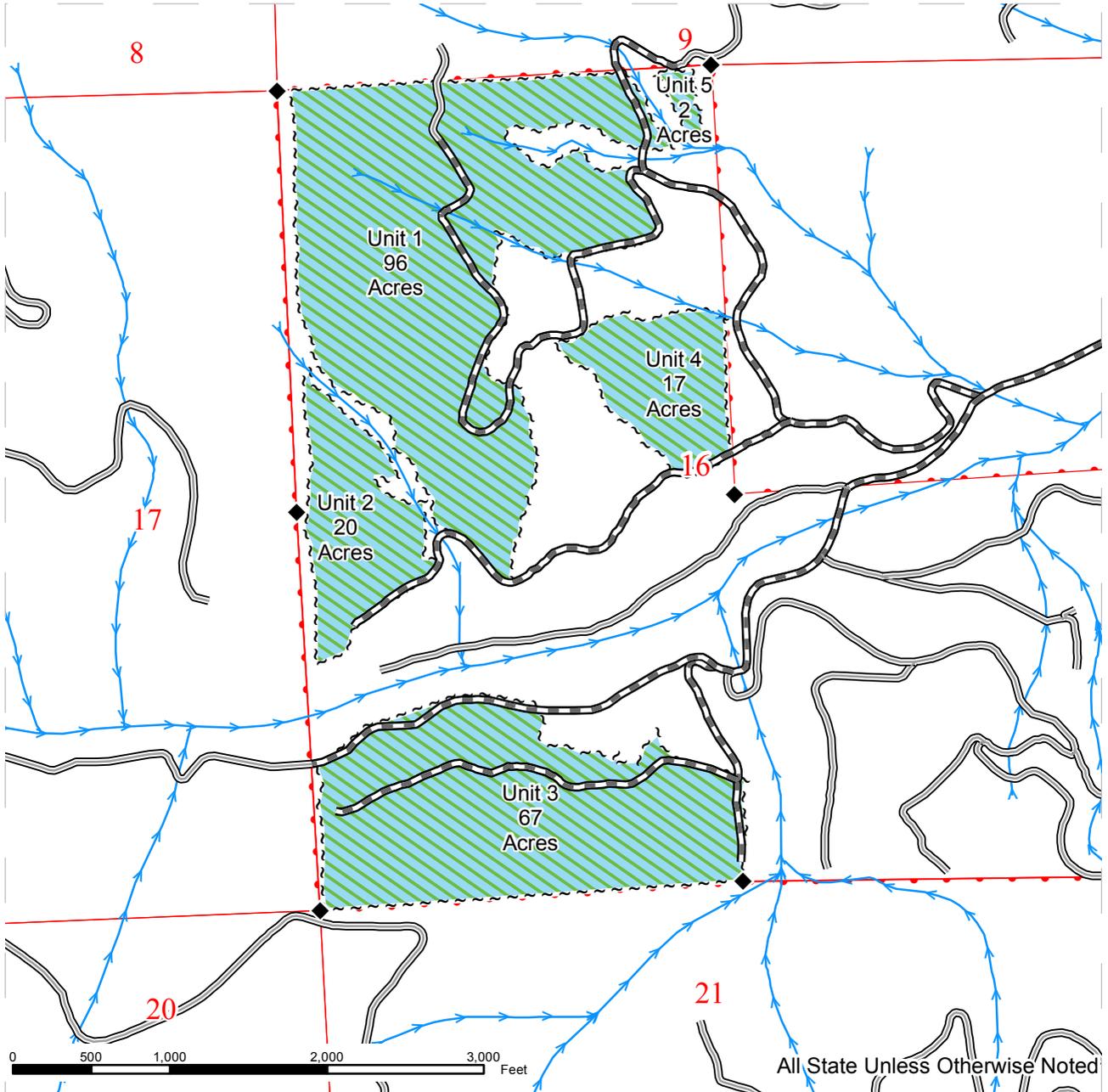
From Chewelah WA travel east approximately 12.3 miles to USFS rd 4347. Travel south on 4347 approximately 2.2 miles to USFS 580. Travel north on USFS 580 to units 1, 4, and 5. Travel southwest on E3242160 for approximately 0.5 miles to unit 2. Continue south on 4347 approximately 0.7 miles to unit 3.



TIMBER SALE MAP

SALE NAME: NINEBARK SORTS
AGREEMENT#: Not Defined.
TOWNSHIP(S): T32R42E
TRUST(S): Common School and Indemnity(3)

REGION: Northeast Region
COUNTY(S): STEVENS
ELEVATION RGE: 3285-4244



~ ~ ~ Sale Boundary Tags	— — — County Road	— — — Streams
Ground Skidding	== == Pre Haul Maintenance	◆ Monumented Corners
General	— — — Other Route	

