

DRAFT

**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: Q MIDDLE CREEK Agreement # 30-100612*

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: 05/07/2020

5. Agency requesting checklist: Washington Department of Natural Resources

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

a. *Auction Date:*

11/17/2020

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

10/15/2022

c. *Phasing:*

None planned

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:*

TSU NO: 1 GROUND HERB	07/15/2023	36 acres
TSU NO: 1 PILE & BURN	11/01/2022	2 acres
TSU NO: 2 GROUND HERB	07/15/2023	44 acres
TSU NO: 2 PILE & BURN	11/01/2022	4 acres
TSU NO: 3 GROUND HERB	07/15/2023	16 acres
TSU NO: 3 PILE & BURN	11/01/2022	1 acre
TSU NO: 4 GROUND HERB	07/15/2023	25 acres
TSU NO: 4 PILE & BURN	11/01/2022	1 acre
TSU NO: 5 PILE & BURN	07/15/2023	44 acres
TSU NO: 5 PILE & BURN	11/01/2022	2 acres

b. *Regeneration Method:*

TSU NO: 1 HAND PLANT	04/15/2024	36 acres
TSU NO: 2 HAND PLANT	04/15/2024	44 acres
TSU NO: 3 HAND PLANT	04/15/2024	16 acres
TSU NO: 4 HAND PLANT	04/15/2024	25 acres
TSU NO: 5 HAND PLANT	04/15/2024	44 acres

c. *Vegetation Management:*

TSU NO: 1 SEED GRASS	11/17/2022	1 acre
TSU NO: 2 SEED GRASS	11/17/2022	1 acre
TSU NO: 3 SEED GRASS	11/17/2022	1 acre
TSU NO: 4 SEED GRASS	11/17/2022	1 acre
TSU NO: 5 SEED GRASS	11/17/2022	1 acre

d. *Other:*

Road maintenance assessments will be conducted and may include periodic ditch and culvert cleanout, and grading as necessary. Pre-commercial thinning needs will be assessed at approximately 7 to 10 years of age. Commercial thinning potential will be assessed at approximately 25 to 35 years of age. Landing slash may be piled and burned, or if economically feasible chipped for biomass. Firewood cutting may take place after harvest activities have concluded. Application of herbicides may occur to assist with site preparation and to control invasive roadside weeds. Prescribed fire may be utilized to achieve future silvicultural, forest health, fuel reduction, or fire hazard abatement objectives.

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: Pend Oreille River

temp

sediment

completed TMDL (total maximum daily load)

Landscape plan:

Watershed analysis:

Interdisciplinary team (ID Team) report:

Road design plan: DNR Road Plan Dated 3/25/2020

Wildlife report:

Geotechnical report:

Appendix D. slope stability informational form: Included in FPA.

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.

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 # 3024209*     
  *FPH*     
  *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:*

There are five proposed final rotational harvest units and three right-of-way harvest units associated with the Q Middle Creek Timber Sale. Approximately 5,000 thousand board feet (MBF) of mature conifer timber is proposed for harvest utilizing ground-based harvest systems. Approximately 4,940 feet of new road construction and 5,038 feet of road reconstruction are associated with this proposal. The proposal is located in a Tier 2 high priority Hydrologic unit code (HUC) 5 watershed of the DNR 20-Year Forest Health Strategic Plan.

<b>Unit</b>	<b>Proposal Acres (gross)</b>	<b>RMZ/WMZ Acres</b>	<b>Potentially Unstable Slope Acres</b>	<b>Existing Road Acres (within unit)</b>	<b>Sale Acres</b>	<b>Leave Tree Clump Acres</b>	<b>Net Harvest Acres</b>
1	36.3	0	0	0	36.3	0	36.3
2	47.1	3.4	0	0	47.1	0.1	43.6
3	16.3	0	0	0	16.3	0	16.3
4	24.9	0	0	0	24.9	0	24.9
5	47.5	3.2	0	0	47.5	0	44.3
ROW 1	0.25	0	0	0	0.25	0	0.25
ROW 2	0.3	0	0	0	0.3	0	0.3
ROW 3	0.3	0	0	0	0.3	0	0.3
<b>Totals</b>	<b>166.4</b>	<b>6.6</b>	<b>0</b>	<b>0</b>	<b>173</b>	<b>0.1</b>	<b>166.3</b>

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:***

<b>Unit</b>	<b>Origin Date</b>	<b>Major Timber Species</b>	<b>Type of Harvest</b>
1	1892	Douglas-fir, grandfir, western redcedar, western larch.	Variable retention harvest.
2	1892	Western redcedar, grandfir, western hemlock, Douglas-fir.	Variable retention harvest.
3	1950, 1965	Douglas-fir, ponderosa pine, western larch, grandfir.	Variable retention harvest.
4	1896, 1938	Douglas-fir, western larch, grandfir, western redcedar.	Variable retention harvest.
5	1892	Western redcedar, grandfir, western hemlock, Douglas-fir.	Variable retention harvest.
ROW 1	1892	Western redcedar, Douglas-fir, western larch, grandfir, western hemlock.	Right-of-way.
ROW 2	2000	Ponderosa pine.	Right-of-way.
ROW 3	1996	Ponderosa pine, Douglas-fir, grandfir.	Right-of-way.

***Overall Unit Objectives:***

The objectives of this proposal are:

- 1) Produce revenue for the Common School Trust (03) through the production of saw logs and pulp material.
- 2) Provide for wildlife and riparian habitat by developing vertical stand structure and age class distribution in the future stands.
- 3) Improve stand health by adding early seral species resistant to root rot and remove as much mistletoe infected western larch and ponderosa pine in the proposal area as possible.
- 4) Improve stand health by removing over-mature and falling-out lodgepole pine and western larch where necessary in the proposal area.

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		4,940	4	0
Reconstruction		5,038		0
Abandonment		0	0	0
Bridge Install/Replace	0			0
Stream Culvert Install/Replace (fish)	0			0
Stream Culvert Install/Replace (no fish)	1			
Cross-Drain Install/Replace	4			

Additionally, there is approximately 72,967 feet of pre-haul maintenance planned for 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 to landings, 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 (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: T35N, R44E, S14

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

To Units 1, 2, and 5:

These units are located approximately 13.4 miles north of Usk, Washington. The route from Usk, WA is via LeClerc Creek road north, to Mill Creek road (E354433A) to the E354428A, and then to the E354415F, E354415G, E354415H and E354415J roads.

To Units 3 and 4:

These units are located approximately 13.4 miles north of Usk, Washington. The route from Usk, WA is via LeClerc Creek road north, to Mill Creek road (E354433A) to the E354426C, and then to the E354413F, E354415E, and E354414A roads.

### 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).*

Within the Middle Creek WAU, the Pend Oreille River is on the state 303(d) list for temperature near the confluence of Middle Creek, located approximately five miles downstream of the proposal area.

Within the Middle Creek WAU, gray wolves have been observed. No gray wolves were observed or den site identified near the sale area during the timber sale layout. In Washington, gray wolves are listed as a state endangered species. They were delisted by the federal government in 2011 in the eastern 1/3 of WA. No forest management restrictions are anticipated for wolves, as they are generally tolerant of disturbance.

Bull trout critical habitat is located within the Middle Creek WAU and is being addressed within the sale by following Forest Practice Rules and not removing shade in RMZ's.

Grizzly bears known to occur in the vicinity of the sale, the proposal itself is not within the Selkirk Grizzly Bear Recovery Zone.

All units of the proposal area are within the Salmo-Priest Lynx Management Zone. See B.5.d.1 for further information on lynx habitat management.

Within the Middle Creek WAU, unstable landforms have been observed. Several unstable landforms were observed near the proposal area. These landforms were excluded from the proposal area.

- b. *Briefly describe existing plans and programs (i.e. the HCP, DNR landscape plans, retention tree plans) and current forest practice rules that provide/require mitigation to protect against potential impacts to environmental concerns listed in question A-13-a.*

- Forest Practice Rules established Riparian Management Zones (RMZ) along streams to maintain riparian functions.
- Forest Practice Board Manual "Guidelines for Forest Roads" Best Management Practices (BMP) guides road construction and maintenance techniques.
- The DNR Policy for Sustainable Forests (2006) guided the development and layout of the proposal.
- The DNR Retention and Perpetuation of Biological Legacies and Green Trees Procedure (PR14-006-091) aided in the selection of retention trees.
- Identifying Old Trees and Forests in Eastern Washington, by Robert Van Pelt, September 2008, was utilized in the identification and protection of old growth trees.
- Sale layout follows the Washington State Department of Natural Resources Policy number PO14-009 regarding wildlife habitat pertaining to federally or state listed species.
- The Smoke Management Plan (SMP) regulates activities associated with pile burning or prescribed fire.
- DNR's Lynx Management Habitat Plan (2006) guides DNR's forest management activities

to facilitate the creation and preservation of quality lynx habitat. It allows DNR to meet state and federal requirements for protecting lynx, while at the same time providing revenue through timber production.

- Forest Practice Board Manual Guidelines for Evaluating Potentially Unstable Slopes and Landforms

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

- No harvest within the core and inner zone of Type F, and Type Np riparian management zones except to the extent necessary for road construction.
- No harvest within average width wetland management zones except to the extent necessary for road construction.
- Rule-identified landforms defined by Forest Practice Board Manual and field verified by State Lands Geologist excluded from proposal area by at least 50 feet.
- Retaining at least six leave trees from the largest available diameter classes per acre dispersed and aggregated throughout the harvest units.
- Planting of tree seedlings on harvest units to supplement natural regeneration and ensure adequate reforestation occurs.
- Coordinated skidding patterns and landing locations, effective contract administration, and normal road maintenance will minimize erosion potential.
- No felling, skidding, or other hauling activities will occur during spring break-up unless approved by the contract administrator (CA).
- Harvest and haul activities will be monitored and activities will be restricted where needed to prevent sediment delivery to streams.
- Roads have been designed to minimize erosion potential and conduct water onto naturally vegetated forest floors utilizing drivable dips, in or out-sloping of road surfaces, crowning, ditching, and installation of cross drains.
- 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, or have slash placed where necessary to prevent erosion. Grass seeding will also occur on cut and fill slopes where necessary.
- Road Plan has been designed by a forest engineer and reviewed and approved by a licensed engineer.
- Proposal review by DNR wildlife biologist.
- A DNR State Lands geologist remotely reviewed all units of the sale utilizing historic aerial photographs, and GIS data from the DNR corporate database.
- Timing restrictions will be placed on sale for timber harvesting, timber hauling, road construction, and site preparation within one mile of a confirmed occupied wolf den from March 15<sup>th</sup> to July 30<sup>th</sup> or ¼ mile of a confirmed wolf den site at other times of the year.
- Lynx corridors and lynx denning areas are designated and maintained in order to provide lynx with the necessary cover to travel through the area and provide suitable denning habitat. The units are expected to provide forage for snowshoe hares in 7 to 10 years.

- 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?

It is not expected potential impacts from this proposal will contribute to the environmental concerns listed in question A.13.a. This proposal will be conducted in accordance to the Policy for Sustainable Forests (2006) and Washington State Forest Practice Rules and Regulations. Additionally, planned reforestation activities post-harvest are expected to further mitigate any possible effects made to the environmental concerns listed above.

- 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-managed WAU Acres	Acres of DNR proposed even-aged harvest in the future	Acres of DNR proposed uneven-aged harvest in the future	Acres of proposed harvest on non-DNR-managed lands currently under active FP permits
MIDDLE CREEK	28,780	5,334	347	0	2,190

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

## 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).

<b>WAU:</b>	<u>MIDDLE CREEK</u>
<b>WAU Acres:</b>	<u>28,780</u>
<b>Elevation Range:</b>	<u>2,030 – 6,166 ft.</u>
<b>Mean Elevation:</b>	<u>3,528 ft.</u>
<b>Average Precipitation:</b>	<u>31 in./year</u>
<b>Primary Forest Vegetation Zone:</b>	<u>Western hemlock</u>

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

This proposal is a representative example of the WAU at the same elevation and aspect.

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

62%

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	Number of Acres within the Proposal
5390	SILT LOAM	126.6
5391	STONY SILT LOAM	21.8
5393	STONY SILT LOAM	8.6
6796	STONY SILT LOAM	5.4
5394	STONY SILT LOAM	4.0

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 DNR State Lands geologist remotely reviewed all units of the sale utilizing historic aerial photographs and GIS data from the DNR corporate database. The results of the geologist's review indicated the proposal area had potential for areas of slope instability. The State Lands Geologist and forester conducted a field review and field verified a total of four bedrock hollows east of Unit 2 and Unit 5. These landforms were excluded from the proposal area using white "Timber Sale Boundary" Tags.

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.

Sale boundaries have been laid out in such a manner as to exclude unstable features in accordance with recommendations made by a DNR State Lands geologist via field review. The timber sale was designed to minimize the amount of new road construction.

Roads were designed to reduce the potential for mass wasting and surface erosion. Coordinated timber harvest skidding patterns, appropriate landing locations, effective contract administration, and road maintenance will minimize erosion potential.

- 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:* 4 acres

*Approx. acreage new landings:* 4 acres

*Fill Source:* Commercial rock and 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. However, none is expected to discharge into typed waters due to minimal stream crossings and proper road design incorporating effective water control structures. Hauling will be restricted during wet conditions and spring break-up. 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):*

Less than 1% of the site will remain as gravel roads.

- h. Proposed measures to reduce or control erosion, or other impacts to the earth, if any: *(Include protection measures for minimizing compaction or rutting.)*

- Coordinated skidding patterns and landing locations, effective contract administration, and normal road maintenance can minimize erosion potential.
- No felling, skidding, or other hauling activities will occur during spring break-up unless approved by the contract administrator (CA).
- Harvest and haul activities will be monitored and activities will be restricted where needed to prevent sediment delivery to streams.
- Roads have been designed to minimize erosion potential and conduct water onto naturally vegetated forest floors utilizing drivable dips, in or out-sloping of road surfaces, crowning, ditching, and installation of cross drains.
- 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, or have slash placed where necessary to prevent erosion. Grass seeding will also occur on cut and fill slopes where necessary.
- Road Plan has been designed by a forest engineer and reviewed and approved by a licensed engineer.

## 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:

Dust abatement may occur on selected roads as needed between July 1st and October 15th or as directed by the CA, to maintain the road prism. Pile burning and prescribed fire will adhere to the requirements of the Smoke Management Plan (SMP). The SMP provides regulatory direction, operating procedures, and advisory information regarding the management of smoke and fuels on the forestlands of Washington State. The goals of the SMP are to protect human health and safety from the effects of outdoor burning. The SMP is administered by DNR under authority described in the WA Clean Air Act.

## 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:

All units are located within the Middle Creek WAU. Streams located within the units are direct tributaries to Middle Creek, which is a tributary the Pend Oreille River. The Pend Oreille River is listed on the state 303(d) list for temperature. Within the proposal area, appropriate riparian management zones and equipment limitation zones have been applied to all typed stream channels to provide shade and resource protection. The

proposal is not anticipated to have any effects on the 303(d) listed stream segment, as all riparian functions will be retained.

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 stream	Np	3	50

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

All Type Np streams within harvest units are protected by a 50 foot no cut riparian management zone.

Roads constructed in Units 1 and 5 will be located to minimize impacts on RMZs as much as possible. Culvert installation will take place in summer when water flow is at its lowest.

- 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):

One culvert installation is proposed over a Type Np stream on the E354415H road. Timber harvest may occur as close as 50 feet from a Type Np stream between Unit 1 and 5. Timber harvest may occur as close as 50 feet to two separate isolated Type Np streams within Unit 5. Road maintenance to minimize sediment delivery may occur on existing haul roads within 200 feet of Type F waters

- 3) Estimate the amount of fill and dredge material that would be placed in or removed from surface water or wetlands and indicate the area of the site that would be affected. Indicate the source of fill material.

Approximately 10.5 cubic yards of commercial rock and native riprap material will be used as fill and armor over the top of one Type Np culvert crossing on the E354415H road.

- 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:

Temporary diversion may be necessary, if water is present, while installing a culvert on one un-named Type Np stream. This may include creating a check dam and diverting water around the work area to prevent sediment delivery to typed water. Water will be returned to the stream channel at the best possible location. Water may be withdrawn from local sources during operations to facilitate dust abatement activities. Contractor is required to obtain all necessary permits.

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

No       Yes, describe activity and location:

- 6) Does the proposal involve any discharges of waste materials to surface waters? If so, describe the type of waste and anticipated volume of discharge.

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)?*

MIDDLE CREEK = 4.6 (mi./sq. mi.)

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

No       Yes, describe:

None known. Any forest roads or ditches not functioning properly within the proposal will be addressed with the proposal.

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

No             Yes, describe observations:

There are indications of past high water events within the WAU, which appear to have occurred as natural events, mainly as spring runoff from snowmelt. The primary evidence is the scouring and deposition of materials observed in the stream channels after runoff waters have receded. This is a natural process that occurs each spring on streams throughout the WAU.

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

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

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 are expected to minimize erosion potential within and adjacent to the proposal area. Water bars, drivable dips, ditching, cross drains, out-sloping, monitoring and re-vegetation 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. See B.1.h.

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

No             Yes, describe the water resource(s):

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

No             Yes, describe possible impacts:

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

See B-1-h. for 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 or discharged. 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 material will be discharged into the ground.

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

*No*             *Yes, describe:*

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

*No*             *Yes, describe possible impacts:*

*Note protection measures, if any:*

No additional protection measures needed. See B.1.h. and B.3.a.2.

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 collected by road surfaces will be diverted through drainage structures, including drivable dips and water bars, 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 out-sloped, crowned and drivable dips will be utilized where appropriate. Impacts to water will be addressed further with the application of grass seed on exposed soils within road right of ways.

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

No       Yes, describe:

*Note protection measures, if any:*

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

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

No change in drainage patterns is anticipated. Drainage structures will be installed to maintain naturally occurring drainage patterns.

d. Proposed measures to reduce or control surface, ground, and runoff water, and drainage pattern impacts, if any:

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

See surface water, ground water, and water runoff sections above, questions B-3-a-1-c, B-3-a-13, B-3-b-3, and B-3-c-2.

#### 4. Plants

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

Deciduous tree:

Alder  Aspen  Birch  Cottonwood  Maple  Western Larch

Other:

Evergreen tree:

Douglas-Fir       Engelmann Spruce       Grand Fir       Lodgepole Pine

Mountain Hemlock  Noble Fir       Pacific Silver Fir  Ponderosa Pine

Sitka Spruce       Western Hemlock       Western Redcedar  Yellow Cedar

Other:

Shrubs:

Huckleberry  Rhododendron  Salmonberry  Salal

Other: ninebark, ocean spray, Rocky Mountain 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 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 conifers are designated to be removed as part of this harvest proposal, except legacy trees, wildlife reserve trees, green recruitment trees, and vegetation within the RMZs. This proposal will remove approximately 5,000 thousand-board feet (MBF) of mature conifer timber. The proposal was marked to leave a minimum of at least six trees per acre. Understory vegetation will be disturbed and/or reduced within the proposed harvest area as a result of timber harvest and site preparation activities. It is expected that vegetation will re-establish within two to three years after harvest activities are complete. Upon the completion of harvest, a herbicide application may be necessary to control brushy plants, while new seedlings become established. Grass seeding with native species will occur as needed to reduce noxious weeds and erosion potential.

Reserve trees were selected in accordance with DNR's Retention and Perpetuation of Biological Legacies and Green Trees Procedure and Forest Practices Rules. Trees were left individually and in clumps in order to be conducive to safe operations and allowing distribution of wildlife trees throughout the proposal. Additional reserve trees were selected throughout the stands, with a higher priority given to trees with unique structural characteristics, evidence of bird usage, large diameters, and full crowns. Species preference for reserve trees; ponderosa pine, western larch, western redcedar, Douglas-fir, lodgepole pine, grand fir, and western hemlock. Diameter of reserve trees range from 16 inches in diameter to 36 inches in diameter. Average reserve tree diameter is approximately 24 inches.

The Department of Natural Resources Legacy Tree Procedure (PR14-006-091) and Forest Practice requirements will be met with this proposal.

- 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 south and west of Unit 1 is a 20-year-old privately owned mixed conifer reproduction stand. To the east is a 19-year-old DNR-managed mixed conifer reproduction stand. To the north is a 127-year-old DNR-managed mixed conifer stand, which is part of a designated lynx travel corridor.

Unit 2: To the west of Unit 2 is 10-year-old privately owned mixed conifer

reproduction stand. To the north is a 127-year-old DNR-managed mixed conifer stand. To the east and northeast is a 10-year-old DNR-managed mixed conifer reproduction stand and designated lynx denning area. To the south is a 127-year old DNR-managed mixed conifer stand, which is part of a designated lynx travel corridor.

Unit 3: To the south and east is a 15-year-old privately owned mixed conifer reproduction stand. To the north and west is a 19-year-old DNR-managed mixed conifer reproduction stand.

Unit 4: To the north is a 95-year-old DNR-managed mixed conifer stand and designated lynx denning area. To the east is a 54-year-old DNR-managed mixed conifer and designated lynx travel corridor. To the west is a 19-year-old DNR-managed mixed conifer reproduction stand. To the south is a 20-year-old privately owned mixed conifer reproduction stand.

Unit 5: To the north and west is a 124- year old DNR-managed mixed conifer stand. To the east is a 13-year old DNR-managed mixed conifer stand. To the south is Unit 2 separated by an RMZ.

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

None found in corporate database

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

Individual leave trees and clumps are identified across the harvest areas. Some clumps were selected for their species diversity, or presence of legacy trees. Reserve trees will contribute to the site as a natural seed source, which will complement the future plantation. Native tree species will be planted on site after harvest and site preparation activities. Roads associated with this proposal will be seeded with natural grasses and forbs after harvest.

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

Spotted knapweed, common mullein, and bull thistle have been observed near the site.

## 5. Animals

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

birds:

eagle  hawk  heron  owls  songbirds

other:

mammals:

bear  beaver  coyote  cougar  deer  elk

other: Moose, gray wolf, grizzly bear.

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).

TSU Number	Common Name	Federal Listing Status	WA State Listing Status
1	Gray wolf	Delisted 2011	Endangered
1	Grizzly bear	Threatened	Endangered
1	Lynx	Threatened	Endangered
1	Bull trout	Threatened	Candidate
2	Gray wolf	Delisted 2011	Endangered
2	Grizzly bear	Threatened	Endangered
2	Lynx	Threatened	Endangered
2	Bull trout	Threatened	Candidate
3	Gray wolf	Delisted 2011	Endangered
3	Grizzly bear	Threatened	Endangered
3	Lynx	Threatened	Endangered
3	Bull trout	Threatened	Candidate
4	Gray wolf	Delisted 2011	Endangered
4	Grizzly bear	Threatened	Endangered
4	Lynx	Threatened	Endangered
4	Bull trout	Threatened	Candidate
5	Gray wolf	Delisted 2011	Endangered
5	Grizzly bear	Threatened	Endangered
5	Lynx	Threatened	Endangered
5	Bull trout	Threatened	Candidate

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

Pacific flyway  Other migration route:

Explain:

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

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

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

Species/Habitat: Riparian (Bull trout)

Protection Measures:

- No harvest RMZs on Type Np streams. There are no Type S and F streams or ponds within the proposal area.

Species/Habitat: Upland

Protection Measures:

- At least six legacy trees, wildlife reserve trees, and green recruitment trees per acre will be left clumped and scattered.

Species/Habitat: Gray wolf

Protection Measures: Gray wolves occur frequently in forested environments and wolves and tracks have been observed within the area of this proposal. No forest management restrictions are anticipated for wolves as they are generally tolerant of disturbance. One exception is the possible requirement of a timing or distance restriction around a confirmed active den or rendezvous site. There is no known den or rendezvous site within this proposal area, but if one is discovered within a mile of harvest activities, a seasonal operating restriction may be considered from March 15<sup>th</sup> through July 30<sup>th</sup>, or until the wolves leave the area. Post-harvest conditions should provide higher quality habitat for ungulates, which in turn would benefit wolves through an increased prey base. (See Forest Practices Critical Habitat Rule WAC 222-16-080.)

Species/Habitat: Lynx

Protection Measures: All units of the Q Middle Creek timber sale proposal area are within the Salmo-Priest Lynx Management Zone, Lynx Analysis Unit #208 (LeClerc). The sale will continue to provide lynx with the necessary cover to travel through the area and provide suitable denning habitat. The units are expected to provide forage for snowshoe hares in 7 to 10 years. See 4-b-1 for information regarding designated lynx habitat areas within the proposal. As designed, this proposal is in compliance with the requirements of DNR's Lynx Habitat Management Plan (2006). The lynx travel corridor is 330 feet wide and provides travel through the section and is separated from this proposals activities.

Species/Habitat: Grizzly Bear

Protection Measures: While there are grizzly bears known to occur in the vicinity of the sale, the proposal itself is not within the Selkirk Grizzly Bear Recovery Zone.

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

None known.

## 6. Energy and natural resources

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

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

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

No.

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

None.

## 7. Environmental health

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

Minimal health hazard due to operating heavy equipment and the minor spillage of fuel and lubricating oils that are present with this type of operation. The risk of wildfires is always present and may be increased for approximately two years following harvesting due to logging slash. To mitigate hazards from petroleum products, all equipment will be inspected for leaks, spill kits are contractually required and will be readily available. A spill response plan will be in place.

- 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 fuel and oil will be used during active road building and timber harvesting. Typically these substances are stored in small transfer tanks located in passenger vehicles. No toxic or hazardous chemicals will be stored on site following active operations.

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

There are no special emergency services required at this time. In the event of a lubricant spill, the Purchaser will contact the Department of Natural Resources and the Department of Ecology.

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

The cessation of operations may occur during periods of time when the risk of fire is increased. Fire tools and equipment, including pump trucks and/or pump trailers, will be required on site during fire season. Quick response spill kits are required to be on site in case of smaller spills, as are larger spill kits if hazardous materials are going to be stored on site during operations. No oil or lubricants will be allowed to be disposed of on site.

*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.

Log trucks will use forest roads, county roads, and state highways. This is normal activity for this area and is consistent with existing traffic. Noise will be increased during daylight hours generated from the operation of machinery and power tools.

- 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 forest land surrounding the units is managed for timber production by the DNR. The private lands adjacent to section 14 are industrial timber lands. All ownerships are utilized for informal recreation including hunting, fishing, camping, and hiking.

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:

This proposal is consistent with current and standard forestland harvest activities; there are no anticipated effects on this or adjacent lands that would affect normal forest land business operations. Equipment access, application of herbicides and timber harvesting are normal activities that would be expected on forest lands.

- c. Describe any structures on the site.

None.

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

No.

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

The proposal lies within the Pend Oreille County Public Lands designation. The use of public lands is subject to the limitations and requirements that may be established by the responsible public agency.

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

The proposal will follow Washington State Forest Practice rules. This proposal lies within the

Pend Oreille County Public Lands designation.

- g. If applicable, what is the current shoreline master program designation of the site?

Not applicable.

- h. Has any part of the site been classified as a critical area by the city or county? If so, specify.

No.

- i. Approximately how many people would reside or work in the completed project?

None.

- j. Approximately how many people would the completed project displace?

None.

- k. Proposed measures to avoid or reduce displacement impacts, if any:

Does not apply.

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

This proposal will maintain or enhance compatibility with existing projected land uses such as timber production, recreation, and wildlife use. This project is consistent with current comprehensive plans and zoning classifications.

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

None.

## 9. Housing

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

Does not apply.

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

Does not apply.

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

None.

## 10. Aesthetics

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

Does not apply.

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

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

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

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

The views will reflect common management practices by other large industrial landowners in the area.

- 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?

There may be glare from logging equipment during daylight hours; light from equipment and vehicle headlamps during darkness.

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

No glare will be produced from the finished project.

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

None.

- d. Proposed measures to reduce or control light and glare impacts, if any:

None.

## 12. Recreation

- a. What designated and informal recreational opportunities are in the immediate vicinity?

There is no designated recreation within the proposal area. However, hunting, fishing, hiking, and other informal outdoor recreation activities may occur within the proposal area.

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

There may be some disruptions to recreational use during periods of harvesting and hauling.

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

Road signs will be utilized to inform the public of log truck traffic.

## 13. Historic and cultural preservation

- a. Are there any buildings, structures, or sites, located on or near the site that are over 45 years old listed in or eligible for listing in national, state, or local preservation registers? If so, specifically describe.

None known.

- b. Are there any landmarks, features, or other evidence of Indian or historic use or occupation? This may include human burials or old cemeteries. Are there any material evidence, artifacts, or areas of cultural importance on or near the site? Please list any professional studies conducted at the site to identify such resources.

None known.

- c. Describe the methods used to assess the potential impacts to cultural and historic resources on or near the project site. Examples include consultation with tribes and the department of archeology and historic preservation, archaeological surveys, historic maps, GIS data, etc.

No cultural resources were found after reviewing archaeological surveys online, historic preservation, GIS data, and field review. A cultural resource technician performed a remote review of the proposal area as well as a field review.

- 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.

This sale area will be accessed via LeClerc Rd N to Mill Creek Rd and E354426A Rd to access the west side of section 14 or E354426C Rd to access the east side of section 14.

- 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 proposal should not result in an increase in vehicle trips per day upon completion of the proposal. Any impact will be temporary, and limited to the period during which operations are being conducted. Access to existing roads in the sale area may be restricted during operations, as needed for safety. This proposal expands the network of DNR-managed forest roads 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:

No utilities currently available on site.

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

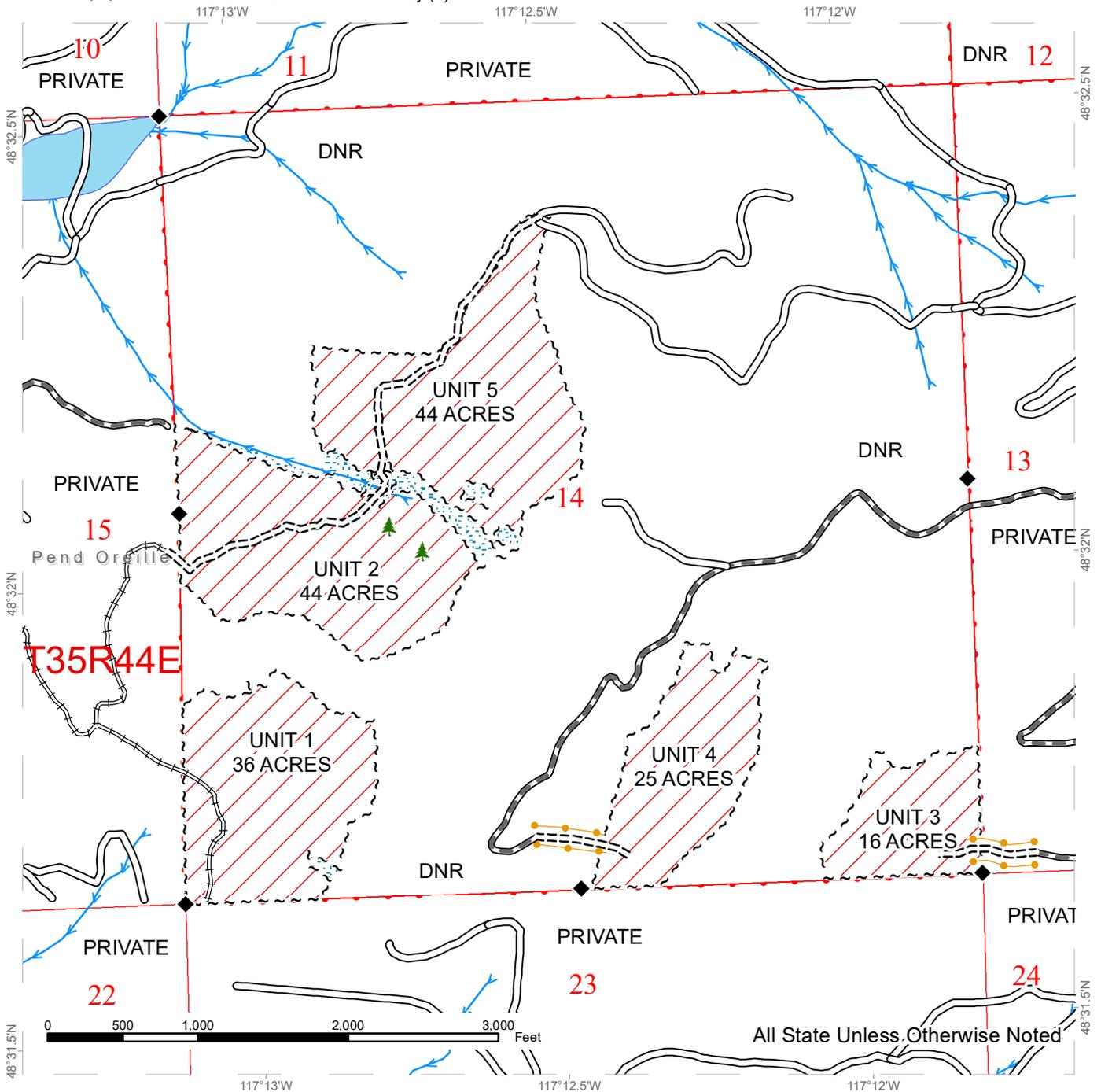
Position and Agency/Organization: Northeast Region Management and Proprietary  
Forester, WADNR

Date Submitted: 6/1/2020

# TIMBER SALE MAP

**SALE NAME:** Q MIDDLE CREEK  
**AGREEMENT #:** 30-100612  
**TOWNSHIP(S):** T35R44E  
**TRUST(S):** Common School and Indemnity (3)

**REGION:** Northeast Region  
**COUNTY(S):** Pend Oreille  
**ELEVATION RGE:** 3520-4440



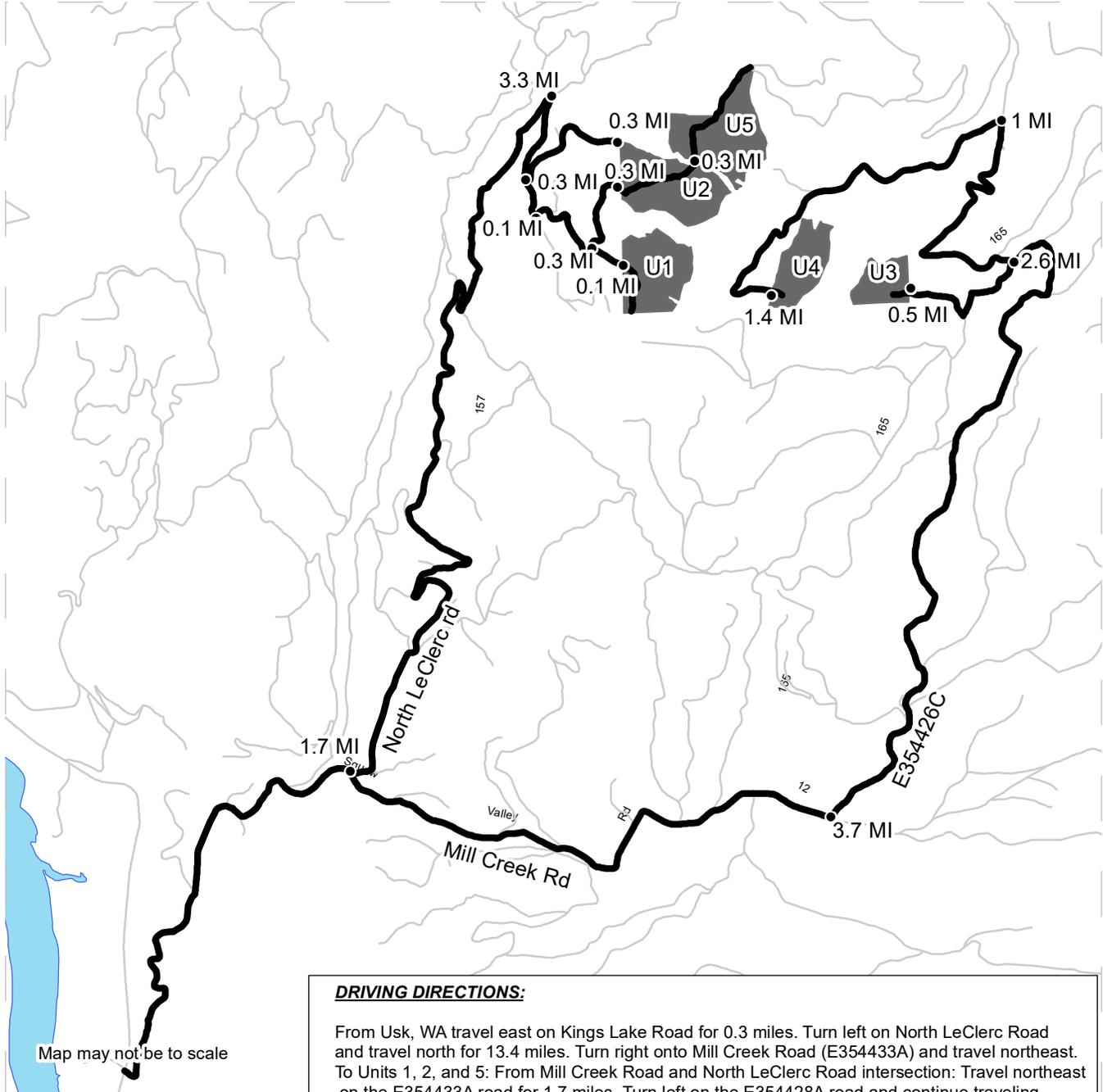
Public Land Survey Townships	Existing Roads	Streams
Variable Retention Harvest	Required Pre-Haul Maintenance	Survey Monument
Riparian Mgt Zone	Required Construction	Leave Tree Area <1/4-acre
Sale Boundary Tags	Required Reconstruction	
Right of Way Tags		
Take / Removal Trees		



# DRIVING MAP

SALE NAME: Q MIDDLE CREEK  
 AGREEMENT#: 30-100612  
 TOWNSHIP(S): T35R44E  
 TRUST(S): Common School and Indemnity (3)

REGION: Northeast Region  
 COUNTY(S): Pend Oreille  
 ELEVATION RGE: 3520-4440



### DRIVING DIRECTIONS:

From Usk, WA travel east on Kings Lake Road for 0.3 miles. Turn left on North LeClerc Road and travel north for 13.4 miles. Turn right onto Mill Creek Road (E354433A) and travel northeast. To Units 1, 2, and 5: From Mill Creek Road and North LeClerc Road intersection: Travel northeast on the E354433A road for 1.7 miles. Turn left on the E354428A road and continue traveling northeast for 3.3 miles. Turn right on the E354415F road and travel south for 0.3 miles to the E354415F and E354415G intersection. Northwest corner of Unit 2: From the E354415F and E354415G road intersection turn left and continue on the E354415F road for 0.3 miles. Road will end at an old landing and skid trail. Unit 2 is approximately 400 feet east from end of the road. To Unit 1: From the E354415G and E354415F road intersection continue on the E354415G road for 0.1 miles. Turn left on the E354415H road and travel southeast for 0.3 miles. Turn right on the E354415J road and travel southeast for 0.1 miles to arrive at Unit 1. Unit 2 and 5: From the E354415J and E354415H road intersection turn left and travel northeast on the E354415H for 0.3 miles and will arrive in Unit 2. Continue on the E354415H road for another 0.3 miles to arrive at Unit 5. Unit 3 and 4: From Mill Creek Road and North LeClerc Road intersection: travel northeast for 3.7 miles. Turn left on the E354426C and travel north for 2.6 miles to the E354426C and E354413F road intersection. Unit 3: Turn left at the E354426C and E354413F road intersection and travel on the E354413F road for 0.5 miles to arrive at Unit 3. Unit 4: From the E354426C and E354413F road intersection continue traveling on the E354426C road for 1.0 mile. Turn left on the E354414A road and travel west for 1.4 miles to arrive at Unit 4



Map may not be to scale

- Timber Sale Unit
- Haul Route
- Distance Indicator