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 KNIGHTS**
   Agreement #30-100611

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: 03/02/2020

5. Agency requesting checklist: Washington Department of Natural Resources

6. Proposed timing or schedule (including phasing, if applicable):
   a. *Auction Date:*
   10/27/2020

   b. *Planned contract end date (but may be extended):*
   10/27/2022

   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: Pile & Burn
   TSU NO 2: Pile & Burn
   TSU NO 3: Pile & Burn
   TSU NO 4: Pile & Burn

   b. Regeneration Method:
   TSU NO 1: Natural
   TSU NO 2: Natural
   TSU NO 3: Natural
   TSU NO 4: Natural

c. Vegetation Management:
TSU NO 1: Seed Grass
TSU NO 2: Seed Grass
TSU NO 3: Seed Grass
TSU NO 4: Seed Grass

d. Other:

Road maintenance assessments will be conducted and may include periodic ditch and culvert cleanout, and grading as necessary.

8. List any environmental information you know about that has been prepared, or will be prepared, directly related to this proposal. *Note: All documents are available upon request at the DNR Region Office.*

☐ *303 (d) – listed water body in WAU:*
- ☐ *temp*
- ☐ *sediment*
- ☐ *completed TMDL (total maximum daily load)*

☐ *Landscape plan:*
☐ *Watershed analysis:*
☐ *Interdisciplinary team (ID Team) report:*
☒ *Road design plan:* Draft WADNR Road Plan 2/19/20
☐ *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.

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 #* 3024156 ☐ *FPHP* ☒ *Board of Natural Resources Approval*
☐ *Burning permit* ☐ *Shoreline permit* ☐ *Existing HPA*
☐ *Other:*

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

a. *Complete proposal description*: There are four proposed harvest units associated with the Q Knights Timber Sale. Approximately 1,000 thousand-board feet (MBF) of mature conifer timber is proposed for harvest. Approximately 810 feet of road construction and 6,623 feet of pre-haul maintenance is associated with this proposal. The proposal is located in a low priority Hydrologic unit code (HUC) 5 watershed of the DNR 20-Year Forest Health Strategic Plan.

Unit	Proposal Acres (*gross*)	RMZ/WMZ Acres	Potentially Unstable Slope Acres	Existing Road Acres *(within unit)*	Sale Acres	Leave Tree Clump Acres	Net Harvest Acres
1	282	0	0	.15	279.5	0	279.2
2	6	0	0	0	6	0	6
3	16	0	0	.05	15.5	0	15.5
4	9	0	0	0	9	0	9
Totals	313	0	0	.20	310	0	309.7

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

Pre-harvest Stand Description:

Unit	Origin Date	Major Timber Species	Type of Harvest
1	1978	PP, DF	Uneven-age Mgmt
2	1975	PP, DF	Seed Tree
3	1977	PP, DF	Seed Tree
4	1978	PP, DF	Seed Tree

Overall Unit Objectives:

The objectives of this proposal are:
1) Produce revenue for the Agriculture School Trust (04) 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 reducing wildfire risks, reducing stand vulnerability to beetle outbreaks, removing mistletoe infected ponderosa pine and Douglas-fir 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		810	.20	
Reconstruction				
Maintenance		6,623		
Abandonment				
Bridge Install/Replace				
Stream Culvert Install/Replace (fish)				
Stream Culvert Install/Replace (no fish)				
Cross-Drain Install/Replace				

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 *(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:* T27-0N R41-0E S06

b. Distance and direction from nearest town:
All timber sale units are located nine miles from Nine Mile Falls. From Nine Mile Falls, go north on HWY 291 for 0.4 miles. Turn right onto W Charles Road and go 4.6 miles to South Bank Road. Turn right on South Bank Road and go 5.0 miles to the timber sale.

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 Upper Long Lake and Lower Long Lake WAUs, the Spokane River, which is adjacent to timber sale area, is listed as having PCB's, and dioxin concerns. There are no streams within the timber sale area which will contribute any runoff or sediment into the

Spokane River. Multiple landowners exist between the proposal area and the shores of the Spokane River. No forest management restrictions are anticipated.

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 require riparian management zones established along streams to maintain riparian functions.
- Policy and procedures require identifying and protecting old growth trees.
- Policy and procedures require Retaining a minimum of 6 leave trees per acre dispersed and aggregated throughout the harvest units.
- Forest Practice Rules require adequate reforestation occurs.
- Sale layout follows the Washington State Department of Natural Resources Policy number PO14-009 regarding wildlife habitat pertaining to endangered species listed federally or listed by the state.

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

- Placement of water bars on skid trails to minimize soil erosion potential.
- Grass seeding landings, new road construction, cut banks, and skid trails to promote soil stability and minimize movement and transportation of fine sediment.
- 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).
- 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.

d. Based on the answers in questions A-13-a through A-13-c, is it likely potential impacts from this proposal could contribute to any environmental concerns listed in question A-13-a?

No.

e. Complete the table below with the reasonably foreseeable future activities within the associated WAU(s) (add more lines as needed). Future is generally defined as occurring within the next 7 years. This data was obtained from DNR's Land Resource Manager System on the date of processing this checklist and may be subject to change.

WAU Name	Total WAU Acres	DNR-managed WAU Acres	Acres of DNR proposed even-aged harvest in the future	Acres of DNR proposed uneven-aged harvest in the future	Acres of proposed harvest on non-DNR-managed lands currently under active FP permits
UPPER LONG LAKE	33,716	2,068	28	0	949
LOWER LONG LAKE	45,737	4,055	0	281	3,216

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

B. ENVIRONMENTAL ELEMENTS

1. Earth

a. General description of the site (check one):
☐ Flat, ☐ Rolling, ☒ Hilly, ☐ Steep Slopes, ☐ Mountainous, ☐ Other:

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

WAU:	UPPER LONG LAKE
WAU Acres:	33,716
Elevation Range:	1,533 – 3,565 ft.
Mean Elevation:	2,044 ft.
Average Precipitation:	15 in./year
Primary Forest Vegetation Zone:	Ponderosa pine

WAU:	LOWER LONG LAKE
WAU Acres:	45,737
Elevation Range:	1,356 – 3,999 ft.
Mean Elevation:	2,095 ft.
Average Precipitation:	11 in./year
Primary Forest Vegetation Zone:	Steppe

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

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

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

   42%

c. What general types of soils are found on the site (for example, clay, sand, gravel, peat, muck)? If you know the classification of agricultural soils, specify them and note any agricultural land of long-term commercial significance and whether the proposal results in removing any of these soils.

   Note: The following table is created from state soil survey data. It is an overview of general soils information for the soils found in the sale area. The actual soil conditions in the sale area may vary considerably based on land-form shapes, presence of erosive situations, and other factors. situations, and other factors.

State Soil Survey #	Soil Texture	Number of Acres within the Proposal
3120	Marble loamy sand	13
3123	Marble loamy sand	31
3127	Marblespring fine, gravelly loamy coarse sand	11
3140	Springdale gravelly ashy coarse sandy loam	125
3144	Wapal gravelly ashy coarse sandy loam	25
3148	Spens very gravelly loamy coarse sand	12
5073	Lenz-Rock outcrop, complex	93

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.*

   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.*

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: 0.2
Approx. acreage new landings: 1
Fill Source: Commercial Rock

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

Yes. Some minor erosion could occur as a result of building new roads, installing culverts, and hauling timber.

g. About what percent of the site will be covered with impervious surfaces after project construction (for example, asphalt or buildings)? *Approximate percent of proposal in permanent road running surface (includes gravel roads):*

Approximately 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:

If landing debris is burned, it will be in accordance with Washington State's Smoke Management Plan. A burn permit will be obtained before burning occurs.

3. Water

a. Surface Water:

1) Is there any surface water body on or in the immediate vicinity of the site (including year-round and seasonal streams, saltwater, lakes, ponds, wetlands)? If yes, describe type and provide names. If appropriate, state what stream or river it flows into. *(See "WAU Map(s)" and "Timber Harvest Unit Adjacency Map(s)" as referenced on the DNR website: http://www.dnr.wa.gov/sepa. Click on the DNR region of this proposal under the Topic "Current SEPA Project Actions - Timber Sales." Proposal documents also available for review at the DNR Region Office.)*

☒ *No* ☐ *Yes, describe in 3-a-1-a through 3-a-1-c below*

a. Downstream water bodies:

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)

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

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):

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:*

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.

It is not likely that any waste materials will be discharged into the surface water(s). No surface water exists in the proposal area. No lubricants will be disposed of on-site.

7) *Is there a potential for eroded material to enter surface water as a result of the proposal considering the protection measures incorporated into the proposal's design?*

☐ *No* ☒ *Yes, describe:*

Soils and terrain susceptible to surface erosion are generally located on slopes steeper than 70%. The potential for eroded material to enter surface water is minimized due to the erosion control measures and operational procedures outlined in B-1-h.

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

UPPER LONG LAKE = 4.0 (mi./sq. mi.), LOWER LONG LAKE = 3.0 (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:*

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

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

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

☒ *No* ☐ *Yes, describe the water resource(s):*

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

☒ *No* ☐ *Yes, describe possible impacts:*

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

No additional protection measures needed.

b. Ground Water:

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

No water will be withdrawn or discharged.

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

Minor amounts of oil, fuel, and other lubricants may inadvertently be discharged to the ground as a result of heavy equipment use or mechanical failure. No lubricants will be disposed of on-site. All spills are required to be contained and cleaned-up. This proposal is expected to have no impact on ground water.

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

☒ *No* ☐ *Yes, describe:*

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

☒ *No* ☐ *Yes, describe possible impacts:*

Note protection measures, if any:

c. Water runoff (including stormwater):

1) Describe the source of runoff (including storm water) and method of collection and disposal, if any (include quantities, if known). Where will this water flow? Will this water flow into other waters? If so, describe.

Water runoff, including storm water, from road surfaces will be collected by roadside ditches and diverted onto the forest floor via ditch-outs and cross drain culverts.

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

☒ *No* ☐ *Yes, describe:*

Note protection measures, if any:

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

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

No changes to drainage patterns are expected.

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

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

4. Plants

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

☐ Deciduous tree:
☐ Alder ☐ Aspen ☐ *Birch* ☐ *Cottonwood* ☐ Maple ☐ *Western Larch*
☐ Other:

☒ Evergreen tree:
☒ *Douglas-Fir* ☐ *Engelmann Spruce* ☐ *Grand Fir* ☐ *Lodgepole Pine*
☐ *Mountain Hemlock* ☐ *Noble Fir* ☐ *Pacific Silver Fir* ☒ *Ponderosa Pine*
☐ *Sitka Spruce* ☐ *Western Hemlock* ☐ *Western Redcedar* ☐ *Yellow Cedar*
☐ Other:

☐ Shrubs:
☐ *Huckleberry* ☐ *Rhododendron* ☐ *Salmonberry* ☐ *Salal*
☐ *Other:*

☒ *Ferns*

☒ Grass

☐ Pasture

☐ Crop or Grain
☐ *Orchards* ☐ *Vineyard* ☐ *Other Permanent Crops*

☐ Wet Soil Plants:
☐ Bullrush ☐ Buttercup ☐ Cattail ☐ *Devil's Club* ☐ Skunk Cabbage
☐ Other:

☐ Water plants:
☐ Eelgrass ☐ Milfoil ☐ Water Lily
☐ Other:

☐ Other types of vegetation:

☐ *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, and green recruitment trees. This proposal will remove approximately 1,000 MBF of mature conifer timber. The proposal was marked to leave at least six trees per acre averaging approximately 11 to 24 inches in diameter. The average leave tree diameter is approximately 14 inches. 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.

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, Douglas-fir. Trees within the proposal area were marked with a purple band of paint identifying reserve trees.

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- The western and southern boundaries are bordered by private landowners. To the north is county park lands. All landowners have ponderosa pine and Douglas-fir timber types approximately 50 years old. The eastern boundary is a DNR regen unit approximately15 years old, consisting of ponderosa pine.

Unit 2- The eastern boundary is bordered by a private landowner with approximately 50 year old ponderosa pine and Douglas-fir stand. The north/northwestern boundary is bordered by a DNR regen stand, approximately 15 years old. The South and West boundaries are DNR managed land with 80 year old ponderosa pine and Douglas fir stands with mixed advanced regen understories.

Unit 3- The northern boundary is bordered by a private landowner with approximately 50 year old ponderosa pine and Douglas-fir stand. To the south, west, and east of the unit is DNR managed land with 80 year old ponderosa pine and Douglas fir, with an advanced regen understory.

Unit 4- The southern boundary is bordered by a private landowner with approximately 50 year old ponderosa pine and Douglas-fir stand. There is heavy regeneration in the understory of ponderosa pine and Douglas-fir. North, east, and

west of the unit is DNR managed land with 80 year old ponderosa pine and Douglas fir with an advanced regen understory.

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. 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:
fish:
☐ bass ☐ herring ☐ salmon ☐ shellfish ☐ trout
☐ other:
amphibians/reptiles:
☐ *frog* ☐ *lizard* ☐ *salamander* ☐ *snake* ☐ *turtle*
☐ *other*:
unique habitats:
☐ *balds* ☐ *caves* ☐ *cliffs* ☐ *mineral springs* ☐ *oak woodlands* ☐ *talus slopes*
☐ other:

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

None known.

c. Is the site part of a migration route? If so, explain.
☒*Pacific flyway* ☐*Other migration route:*
Explain:

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

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

None needed.

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

Species /Habitat: Protection Measures:

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.

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

None known.

2) Describe existing hazardous chemicals/conditions that might affect project development and design. This includes underground hazardous liquid and gas transmission pipelines located within the project area and in the vicinity.

None known.

3) Describe any toxic or hazardous chemicals that might be stored, used, or produced during the project's development or construction, or at any time during the operating life of the project.

Petroleum-based fuel and lubricants may be used and stored on site during the operating life of this project.

4) Describe special emergency services that might be required.

The Department of Natural Resources, private, and fire protection district suppression crews may be needed in case of wildfire. In the event of personal injuries, emergency medical services may be required. Hazardous material spills may require Department of Ecology and/or county assistance.

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

No petroleum-based products will be disposed of on site. If a spill occurs, containment and cleanup will be required. Spill kits are required to be onsite during all heavy equipment operations. The cessation of operations may occur during periods of increased fire risk. Fire tools and equipment, including pump trucks and/or pump trailers, will be required on site during fire season.

NOTE: If contamination of the environment is suspected, the proponent must contact the Department of Ecology.

b. Noise

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

None.

2) What types and levels of noise would be created by or associated with the project on a short-term or a long-term basis (for example: traffic, construction, operation, other)? Indicate what hours noise would come from the site.

There will be short term, low level and high level noise created by the use of harvesting equipment and hauling operations within the proposal area. This type of noise has been historically present in this geographical area.

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

None.

8. Land and shoreline use

a. What is the current use of the site and adjacent properties? Will the proposal affect current land uses on nearby or adjacent properties? If so, describe. *(Site includes the complete proposal, e.g. rock pits and access roads.)*

This proposal will not change the use of or affect the current/long term land use of areas associated with this sale.

b. Has the project site been used as working farmlands or working forest lands? If so, describe. How much agricultural or forest land of long-term commercial significance will be converted to other uses as a result of the proposal, if any? If resource lands have not been designated, how many acres in farmland or forest land tax status will be converted to nonfarm or nonforest use?

This proposal site has been used as working forest lands. This proposal will retain the site in working forest lands.

1) Will the proposal affect or be affected by surrounding working farm or forest land normal business operations, such as oversize equipment access, the application of pesticides, tilling, and harvesting? If so, how:

No.

c. Describe any structures on the site.

None.

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

No.

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

This proposal lies within the Spokane County Designated Forest Lands Zone.

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

Under the comprehensive plan for forest lands, there are no restrictions pertaining to this proposal. The proposal will follow Washington State Forest Practice Rules, and will be consistent with the current comprehensive plan for Spokane County.

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

Not applicable.

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

No.

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

None.

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

None.

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

Does not apply.

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

This project is consistent with current comprehensive plans and zoning classifications.

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

None.

9. Housing

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

Does not apply.

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

Does not apply.

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

None.

10. Aesthetics

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

Does not apply.

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

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

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

The proposal is visible from S Bank Rd, a lightly trafficked, Spokane county road.

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

This proposal will resemble previous timber harvests in the area and views will change from a dense stand of mature timber to a view of a recent harvest with a variable density of mature trees and established understory trees remaining. The view will change as the understory trees and vegetation continuing to grow filling canopy space. 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:

Scattered leave trees and clumps of leave trees are scattered throughout the proposal area. Leave tree design should help minimize any impacts. Regeneration of young trees will occur two years after harvest and once new trees grow visual impacts will be minimized even further.

11. Light and glare

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

Windshield glare 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.

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.

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.

S Bank Road, and W Charles Road.

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 15 miles away.

c. How many additional parking spaces would the completed project or non-project proposal have? How many would the project or proposal eliminate?

None.

d. Will the proposal require any new or improvements to existing roads, streets, pedestrian, bicycle or state transportation facilities, not including driveways? If so, generally describe (indicate whether public or private).

Yes, see A-11-c.

1) *How does this proposal impact the overall transportation system/circulation in the surrounding area and any existing safety problem(s), if at all?*

This project will have minimal to no additional impacts on the overall transportation system in the area.

e. Will the project or proposal use (or occur in the immediate vicinity of) water, rail, or air transportation? If so, generally describe.

No.

f. How many vehicular trips per day would be generated by the completed project or proposal? If known, indicate when peak volumes would occur and what percentage of the volume would be trucks (such as commercial and non-passenger vehicles). What data or transportation models were used to make these estimates?

Approximately 10 to 15 truck trips per day while the operation is active. Peak volumes would occur during the yarding and loading activities between 4:00 a.m. and 4:00 p.m. of the operating

period. The completed project will generate less than one vehicular trip per day. Estimates are based on the observed harvest traffic of past projects.

g. Will the proposal interfere with, affect or be affected by the movement of agricultural and forest products on roads or streets in the area? If so, generally describe.

No.

h. Proposed measures to reduce or control transportation impacts, if any:

None.

15. Public services

a. Would the project result in an increased need for public services (for example: fire protection, police protection, public transit, health care, schools, other)? If so, generally describe.

No.

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

None.

16. **Utilities**

a. Check utilities currently available at the site:
☐ electricity ☐ natural gas ☐ water ☐ refuse service ☐ telephone ☐ sanitary sewer
☐ septic system ☐ other:

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

None.

C. SIGNATURE

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

Signature: Robert Hechinger

Name of signee: Robert Hechinger

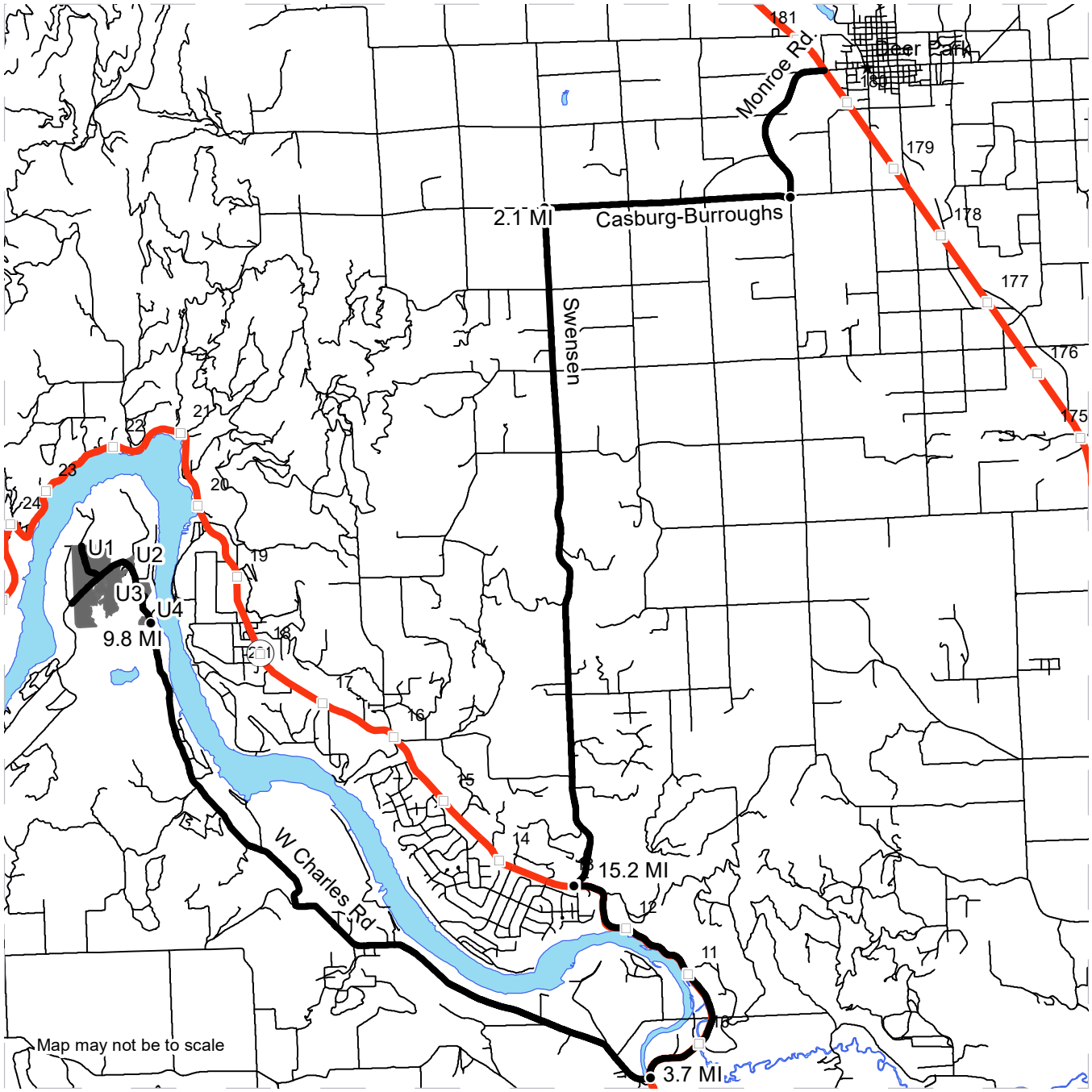
Position and Agency/Organization: Northeast Region Management Forester, WADNR

Date Submitted: 5/18/2020

DRIVING MAP

SALE NAME: Q KNIGHTS
AGREEMENT#: 30-100611
TOWNSHIP(S): T27R41E
TRUST(S): Agricultural School (4), Common School and Indemnity (3)

REGION: Northeast Region
COUNTY(S): Spokane
ELEVATION RGE: 1679-2480



Timber Sale Unit
Haul Route
Milepost Markers

DRIVING DIRECTIONS:

For Units 1-4:
From Deer Park- Head West thorough the round about on HWY 395
Turn Right and follow W Monroe RD to Casberg-Burroughs for 2.1 Miles
Take a left onto S Swenson RD to W Charles Rd for 15.2 Miles
Take left onto HWY 291 for 3.7 miles
Take a right onto W Charles RD to N South Bank RD for 9.8 Miles
Arrive at Units 1-4

N

Prepared By: mlou490

Modification Date: mlou490 3/30/2020

TIMBER SALE MAP

SALE NAME: Q KNIGHTS
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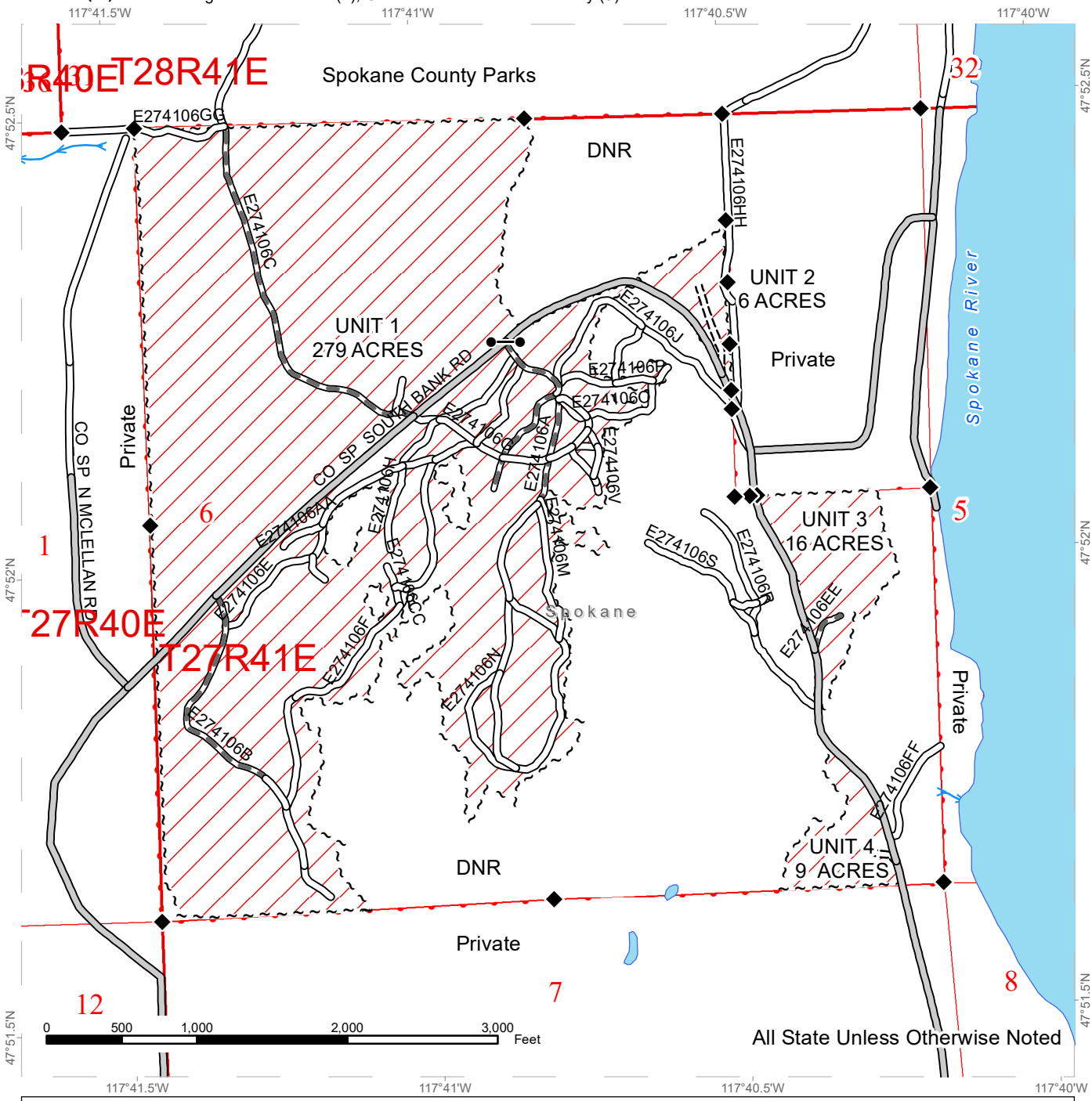

Public Land Survey Townships
Variable Retention Harvest
Sale Boundary Tags
County Road
Existing Roads
Required Pre-Haul Maintenance
Required Construction
Streams
Survey Monument

N

Prepared By: mlou490

Modification Date: mlou490 3/27/2020