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 BUCK CENTRAL
   Agreement # 30-103207

2. Name of applicant: Washington Department of Natural Resources

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

   Robert Hechinger
   Washington Department of Natural Resources
   225 S. Silke Road
   Colville, WA 99114
   (509) 684-7474

4. Date checklist prepared: 04/24/2022

5. Agency requesting checklist: Washington Department of Natural Resources

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

   a. Auction Date: 11/15/2022

   b. Planned contract end date (but may be extended): 11/30/2025

   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: Normal ground disturbance will occur during ground-based operations. Landing slash will be piled and burned generally the second year following harvest operations. Application of herbicides may occur to assist with site preparation and to control roadside noxious weeds. Results will be monitored and prescriptions adapted as necessary.

   b. Regeneration Method: Natural regeneration of desired species is expected in all units. All units will meet reforestation standards as determined by Forest Practice Rules.

   c. Vegetation Management: Grass seeding of major skid trails, landings, spur roads and other disturbed areas will take place upon the completion of harvest to minimize surface erosion, promote soil rehabilitation, and reduce the spread of noxious weeds. The utilization of a roadside noxious weed spray program and cleaning harvesting equipment prior to entering state lands will further minimize noxious weed introduction and spread.
d. Other: Landing slash may be piled and burned, or if economically feasible chipped for biomass. Firewood cutting may take place after harvest activities have concluded. Prescribed fire may be utilized to achieve future silvicultural, forest health, fuel reduction, or fire hazard abatement objectives. 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: Okanogan River
  - temp
  - sediment
  - completed TMDL (total maximum daily load)

- Landscape plan:
- Watershed analysis:
- Interdisciplinary team (ID Team) report:
- Road design plan: WADNR draft Road Plan dated 3/25/2022
- Wildlife report:
- Geotechnical report:
- Other specialist report(s):
- Memorandum of understanding (sportsmen’s groups, neighborhood associations, tribes, etc.):
- Rock pit plan:
- Other: GIS generated watershed administrative units (WAU) maps showing soil types, mass wasting, erosion potential, and soil stability of the Loup Loup Creek WAU; Forest Practice Risk Assessment Tool (FPRAT); Washington Department of Fish and Wildlife (WDFW) Heritage database; WDFW Management Recommendations for Washington’s Priority Habitats and Species; Identifying Old Trees and Forests in Eastern Washington, Dr. Robert Van Pelt (September 2008); DNR Smoke Management Plan, issued April 1993 (revised 1998); State Soil Survey; Washington State Department of Natural Resources Policy for Sustainable Forests (December 2006); Retention and Perpetuation of Biological Legacies and Green Trees (Eastern Washington: May 2011); Forest Practices Water Type Modifications NE-49-21-0065, NE-49-0066, and NE-49-0067; WA DNR 20-year Forest Health Strategic Plan; LiDAR; WA DNR Geologist review of proposal; Pre-Harvest Review 5/24/2022; Cultural Resources Screening Document; WA DNR Archaeologist review of proposal

9. Do you know whether applications are pending for governmental approvals of other proposals directly affecting the property covered by your proposal? If yes, explain.

None known.

10. List any government approvals or permits that will be needed for your proposal, if known.

- FPA # 3025800
- Burning permit
- Other:
- FPHP
- Shoreline permit
- Existing HPA
- Board of Natural Resources Approval
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 two proposed variable retention harvest (VRH) units associated with the Q Buck Central timber sale removing an estimated 1,976 thousand board feet (MBF) of commercial timber. Approximately 21,832 feet of road maintenance, 3,847 feet of road construction, 3,876 feet of road decommissioning, and 1,303 feet of road abandonment are associate with this proposal. The proposal lies in a medium priority Tier 1 Hydrologic Unit Code (HUC) watershed of the DNR 20-year Forest Health Strategic Plan. Mistletoe is present in all commercial timber species throughout the proposal area. Currently the proposal area is moderately susceptible to spruce budworm using the United States Department of Agriculture (USDA) stand susceptibility rating system for spruce budworm. Upon completion of the proposed forest management activities, the area will be at a lower risk for infestation.

   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:**

<table>
<thead>
<tr>
<th>Unit</th>
<th>Origin Date</th>
<th>Major Timber Species</th>
<th>Type of Harvest</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>1935</td>
<td>ponderosa pine, Douglas-fir, western larch, Engelmann spruce, lodgepole pine</td>
<td>VRH</td>
</tr>
<tr>
<td>2</td>
<td>1930</td>
<td>ponderosa pine, Douglas-fir, western larch, Engelmann spruce, lodgepole pine</td>
<td>VRH</td>
</tr>
</tbody>
</table>

   **Overall Unit Objectives:**

   1. Optimize revenue, consistent with other objectives for the Common School Trust (03) through the production of saw logs and pulp material.
2. Reduce stand density throughout the proposed area in order to improve the overall residual stand. Capture the stands present value and reduce the risk of a high severity crown fire. Ensure the long-term sustainability of a healthy forest and the intergenerational equity of the Common School Trust.

3. Restore natural early seral conditions conducive to forest health by adding species resistant to root disease. Remove commercial timber that has become infected with mistletoe and undesired forest pests such as spruce budworm and pine beetle from within the proposal area.

4. Comply with internal policies and procedures.

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.

<table>
<thead>
<tr>
<th>Type of Activity</th>
<th>How Many</th>
<th>Length (feet) (Estimated)</th>
<th>Acres (Estimated)</th>
<th>Fish Barrier Removals (#)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Construction</td>
<td></td>
<td>3,847</td>
<td>1.3</td>
<td>0</td>
</tr>
<tr>
<td>Reconstruction</td>
<td></td>
<td>0</td>
<td></td>
<td>0</td>
</tr>
<tr>
<td>Maintenance</td>
<td></td>
<td>21,832</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Abandonment</td>
<td></td>
<td>1,303</td>
<td>0.4</td>
<td></td>
</tr>
<tr>
<td>Bridge Install/Replace</td>
<td></td>
<td>0</td>
<td></td>
<td>0</td>
</tr>
<tr>
<td>Stream Culvert Install/Replace</td>
<td></td>
<td>0</td>
<td></td>
<td></td>
</tr>
<tr>
<td>(fish)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Stream Culvert Install/Replace</td>
<td></td>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>(no fish)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cross-Drain Install/Replace</td>
<td></td>
<td>1</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

There is also 3,876 feet of road decommissioning associated with the proposal. There may be up to 599 feet of additional new road construction within the sale area; in the form of short spurs to facilitate access, protect public resources, maintain ingress and egress or provide for safety.

12. Location of the proposal. Give sufficient information for a person to understand the precise location of your proposed project, including a street address, if any, and section, township, and range, if known. If a proposal would occur over a range of area, provide the range or boundaries of the site(s). Provide a legal description, site plan, vicinity map, and topographic map, if reasonably available. While you should submit any plans required by the agency, you are not required to duplicate maps or detailed plans submitted with any permit applications related to this checklist (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: T33N, R24E, Section 4
T34N, R24E, Sections 28, 29, 32, 33

b. Distance and direction from nearest town: The proposed area is approximately 16 miles west of Okanogan, WA on State Route 20 and can be accessed via Buck Mountain Road.
13. Cumulative Effects

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

Large wildfires have impacted the Loup Loup Creek WAU over the last decade. With the loss of vegetation due to wildfire, erosion has occurred to varying degrees within the WAU. Within the Loup Loup Creek WAU, the Okanogan River is listed as a 303 (d) water for temperature. The proposal is located approximately 12 miles northwest of the confluence, and is not anticipated to increase temperature since no shade is being removed except for three temporary culvert installs in Type Np water.

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 regulate any activity related to growing, harvesting and processing timber as well as road construction and hydraulic projects in typed water.
- Forest Practice Rules established Riparian Management Zones (RMZ) along streams to maintain riparian functions.
- The DNR Policy for Sustainable Forests (2006) guided the development and layout of the proposal.
- Retention and Perpetuation of Biological Legacies and Green Trees (Eastern Washington, PR14-006-091)
- 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 20-Year Forest Health Strategic Plan.
- DNR State Lands Forest Health Plan.

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

- Retaining at least six trees per acre from the largest available diameter classes, dispersed and aggregated throughout the harvest units.
• 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 as determined by the CA to prevent erosion. Grass seeding will also occur on cut and fill slopes where necessary as determined by the 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.

<table>
<thead>
<tr>
<th>WAU Name</th>
<th>Total WAU Acres</th>
<th>DNR-managed WAU Acres</th>
<th>Acres of DNR proposed even-aged harvest in the future</th>
<th>Acres of DNR proposed uneven-aged harvest in the future</th>
<th>Acres of proposed harvest on non-DNR-managed lands currently under active FP permits</th>
</tr>
</thead>
<tbody>
<tr>
<td>LOUP LOUP CREEK</td>
<td>41,563</td>
<td>30,056</td>
<td>1,209</td>
<td>0</td>
<td>515</td>
</tr>
</tbody>
</table>

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).

         | WAU:   | LOUP LOUP CREEK |
         |--------|-----------------|
         | Acres: | 41,563          |
         | Range: | 787 – 6,129     |
         | Mean:  | 3,340 feet      |
         | Average Precipitation: | 16 inches per year |
         | Primary Forest Vegetation Zone: | Douglas-fir |

      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 3,500 feet elevation band
         along the east and south aspects.

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

      60%, however harvest operations will not take place on this steep of slope.

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

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

      | State Soil Survey # | Soil Texture       |
      |---------------------|--------------------|
      | 0677                | LOAM               |
      | 4730                | STONY SANDY LOAM   |
      | 4725                | SANDY LOAM         |
      | 0678                | LOAM               |

      Note: The information in the table above is extrapolated from a GIS database.
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: 1.3 acres
Approx. acreage new landings: 4 acres
Fill Source: None

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. Operations will be tailored to minimize or eliminate the risk of erosion.

g. About what percent of the site will be covered with impervious surfaces after project construction (for example, asphalt or buildings)?

None of the site will be covered with an impervious surface after project construction.

Approximate percent of proposal in permanent road running surface (includes gravel roads):

Approximately 1.0% 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 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.
• Main skid trails will be grass seeded, water barred, and/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.
• Unit boundaries were placed outside of sensitive areas to prevent disturbance from forest management activities.

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 will occur to minimize fugitive dust on roads as needed between May 1st and November 15th or as directed by the CA. Pile burning 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 “WUA 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: Central Creek, a Type Np water, is approximately 50 feet downslope of the proposal. Two un-named Type Np streams are also approximately 50 feet downslope of the proposal. There are three forested wetlands and one Type A wetland within 200 feet of the proposed units. None of these wetlands are within the proposed timber sale.

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

<table>
<thead>
<tr>
<th>Wetland, Stream, Lake, Pond, or Saltwater Name (if any)</th>
<th>Water Type</th>
<th>Number (how many?)</th>
<th>Avg RMZ/WMZ Width in feet (per side for streams)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stream</td>
<td>Np</td>
<td>3</td>
<td>50</td>
</tr>
<tr>
<td>Wetland</td>
<td>Forested</td>
<td>3</td>
<td>None Required</td>
</tr>
<tr>
<td>Wetland</td>
<td>Type A</td>
<td>1</td>
<td>50</td>
</tr>
</tbody>
</table>

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

   A 50 foot no-harvest buffer has been established adjacent to Type Np streams and a Type A wetland as it relates to unit boundaries. Three culverts will be installed in Type Np streams in conjunction with new road construction.

   Drainage will be maintained on roads during the course of harvest activities and will be monitored annually after completion of harvest. With these controls, storm water and waters from snowmelt should be diverted onto the forest floor. Other protection measures include operational timing, directional skidding and felling away from typed streams and waters, and grass seeding.
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): The proposed area falls within 200 feet of all the described waters. The proposed project builds three temporary stream crossings which include temporary culverts. All road construction material including culverts at these crossings will be removed upon completion of the project. None of the wetlands described are within the harvest area. Forest Practice Rules and regulations have been met or exceeded in all cases.

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:

During temporary culvert installation, flow within the Type Np streams may require diversion until the temporary crossing is constructed. Also, water may be withdrawn from local sources during operations to facilitate dust abatement activities. The 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, RMZ buffers, and operational procedures outlined in B-1-h.

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

LOUP LOUP CREEK = 4.1 road miles per square mile

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:

On non DNR managed land it is possible that there are forest roads or ditches within the WAU that deliver surface water to streams, rather than back to the forest floor. On DNR-managed land road construction, reconstruction, and maintenance standards are applied that address this issue by installing cross-drains to deliver surface water to stable forest floors.

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

☐ No    ☒ Yes, describe observations:

There is evidence of changes to channels across the WAU. These changes are a result of natural events such as spring runoff from snowmelt and significant storm events. Channel migration, scouring, and deposition of material can be seen in channels across the WAU; this indicates those channels historically experience higher water levels and peak flows.

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

It is not likely the proposed activity will change the timing, duration, or volume of water during a peak flow event. This proposal 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.

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

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

There are three Type Np streams downslope of the proposal. These streams are tributaries to Summit Creek which flow into Loup Loup Creek and eventually the Okanogan River. There were not any areas of slope instability identified downstream or downslope of the proposed activity.
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.

Drainage will be maintained on roads during the course of harvest activities and will be monitored annually after completion of harvest. With these controls, storm water and waters from snowmelt should be diverted onto the forest floor. Other protection measures include operational timing, directional skidding and felling away from typed streams and waters, and grass seeding. Timing restrictions affecting timber hauling, yarding, rock hauling, and road construction in all timber sale units of the proposed area are from November 15 to April 30 for frozen conditions in the winter and spring break-up. These timing restrictions must be adhered to unless written permission from the CA is given. See B-1-h for additional protection measures.

b. Ground Water:

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

No water will be withdrawn or discharged.

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

None. 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:

There are three Type Np streams downslope of the proposed activity. These streams are
tributaries to Summit Creek which flow into Loup Loup Creek and eventually the Okanogan River. There were not any areas of slope instability identified downstream or downslope of the proposed activity.

*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:*

These streams have been protected according to Forest Practice Rules with a minimum 50 foot no-harvest buffer.

c. Water runoff (including stormwater):

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

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

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

☐ No ☒ Yes, describe:

Waste materials, such as sediment or slash, may enter surface water. Due to mitigation measures throughout this document it is unlikely that waste materials will enter ground or surface waters.

*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:

• Drainage structures have been designed to move water away from streams and onto the forest floor.
• Skid trails on slopes over 25% will be water barred, and/or have slash scattered on them, and will be grass seeded where necessary as determined by the CA.
• Landings, skid trails, road right-of-ways, and other heavily disturbed areas will be grass seeded where necessary as determined by the CA.
• See also B-1-h for further protection measures.

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: Serviceberry, Snowberry, Wild Rose, Currant
   ☑ Ferns
   ☑ Grass
   □ Pasture
   □ Crop or Grain
     □ Orchards □ Vineyard □ Other Permanent Crops
   ☑ Wet Soil Plants:
     □ Bullrush □ Buttercup □ Cattail ☑ Devil’s Club □ Skunk Cabbage
     □ Other: Horsetail fern
   □ 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).

This proposal will remove approximately 1,976 MBF of coniferous timber species. Species removal will consist of ponderosa pine, Douglas-fir, Engelmann spruce, and western larch. Leave trees have been selected in accordance with department guidelines. Ponderosa pine is the preferred leave tree species across the two units along with healthy Douglas-fir and western larch that are not infested with spruce budworm or dwarf mistletoe.

Diameter of leave trees range from 10 to 48 inches. The average leave tree diameter is 16 inches. Leave trees are distributed at a density of at least six trees per acre of dominant and co-dominant

16
species. They are spaced an average of 85 feet between trees or left in clumps that typically consist of two to four trees. Leave tree preferences are based upon species, size, habitat potential, health, location, and dominance throughout the proposal area.

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](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.)

The timber types immediately adjacent to the proposal are a mix of older stands of mature timber species approximately 90 years old and younger stands that are approximately 10 years old. The younger stands are comprised of planted and naturally regenerated ponderosa pine, western larch, lodgepole pine, Engelmann spruce, and Douglas-fir. The overstory component within these young stands is comprised of a minimum of six trees per acre that were selected as leave trees during past forest management.

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

None found in corporate database or observed during fieldwork.

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

Post-harvest grass seeding using a native grass mix will occur to re-vegetate the disturbed areas resulting from the proposed forest management activity. Also, leave trees within the units are mostly dominant and co-dominant seed producing trees producing a healthy cone crop. In addition, the surrounding stands will continue to be managed in order to produce stocked stands with desired vegetation.

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

Diffuse knapweed in isolated areas. Post-harvest herbicide treatments along roads will help to minimize the spread of noxious weeds. All equipment used during harvest activities will be washed off-site before being brought to the proposal area.

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: turkey, grouse, northern goshawk

   mammals:
   - ☑ bear ☑ beaver ☑ coyote ☑ cougar ☑ deer ☑ elk
   - ☑ other: moose, gray wolf, Canada lynx, red squirrel

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

Within the Loup Loup Creek WAU, gray wolves and Canada lynx have been observed. None of these animals were observed or den sites identified during field work for the proposed activity and the proposal area lies outside of the South Fork Beaver Creek Lynx Analysis Unit.

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:

   The regeneration of grasses, forbs, low shrubs, and bushes are expected to create more habitat opportunities for deer and other herbivores.

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

Species /Habitat: Northern goshawk

Protection Measures: There is a northern goshawk nest located between Units 1 and 2 that DNR biologists have evaluated. There will be seasonal operating restrictions in place for units within 0.5 mile of an occupied goshawk nest from March 1 through August 1 or later if young are still on the nest.

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

   None found in corporate database or observed during field work.
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. 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. 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.*)

Current use of site and adjacent land types: The site is currently being utilized for timber production, cattle grazing, and various forms of recreation. 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 non-farm or non-forest 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?

The site is zoned minimum requirement district.

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

The site is unclassified.

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 proposed area can be viewed from surrounding peaks and ridges.
2) How will this proposal affect any views described above?

A more open stand of timber will be visible at the completion of harvest due to the reduction of stand density. Most of the proposal area will have a buffer of undisturbed timber adjacent to it to limit visibility of post-harvest conditions.

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

Unit layout has been designed to minimize the visual impacts to the public. In accordance with DNR policy, on average, a minimum of six of the largest available trees per acre will remain after harvest in all units in the form of single trees and scattered clumps. Along slope breaks and upon broadly visible portions of the proposed area a generally higher number of residual leave trees have been selected to minimize visual impacts. Heavily disturbed areas will be grass seeded following the completion of harvest. Unharvested areas between units will help to reduce the magnitude of visual impacts.

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?

Informal activities include hiking, snowmobiling, hunting, camping, and other forms of dispersed recreation take place near the proposal area. There are also designated maintained winter recreation trails found throughout the proposal area that allow for cross-country skiing and snowshoeing. The DNR recreation program is aware of the proposal.
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:

There may be temporary restrictions during logging operations in the timber harvest area to ensure public safety and to comply with Labor & Industries laws. Active logging signs will be posted at road intersections along with a posted CB channel to help inform the public of harvest activities.

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.

There is a recorded site near the proposed area, DAHP site ID: 45OK02543. This site was discovered during the planning process and field recon of the proposed area. Site protection measures have been established to prevent impacts to these resources.

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.

Yes, a DNR archaeologist and cultural resources technician conducted field visits to the proposal areas on July 7 and 8, 2021. The archaeologist and technician conducted a background review of the project area and completed a pedestrian survey of ridgelines, drainages, wetlands, and other areas of high probability and found evidence of historic use in the vicinity. Site 45OK02453 was recorded as a result of this survey.

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.

Historical maps, notes, land patents, aerial imagery, modern LiDAR data, and the DAHP database of known archaeological sites were reviewed by the DNR archaeologist and cultural resources technician. The proposal area was reviewed in the field by the DNR archaeologist and cultural resources technician. The Colville Confederated Tribes were consulted.

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.

The proposal will avoid impacts to all known cultural resources. Site 45OK02543 was excluded from the timber sale area. If presently unknown cultural resources are
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.

The proposal is accessed via State Route 20, Buck Mountain Lookout Road, and secondary DNR roads.

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 17 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. The road plan map shows the locations and approximate lengths of proposed road maintenance and construction work.

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. During timber harvesting and log hauling activities there will be a temporary increase in vehicle traffic in the immediate vicinity of the timber sale and along the haul route from the timber sale.

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: [Signature]

Name of signee: Robert Hechinger

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

Date Submitted: 7/8/22
Driving Directions:
From Okanogan, WA, travel approximately 17 miles west on State Route 20 to DNR road E332405K on Northside of highway. Turn right (north) off of highway and proceed through stretch gate. Unit 2 is located approximately 1 mile from the highway. Unit 1 may be reached by continuing an additional 0.75 miles on state route 20 past unit 2 to Buck Mtn Lookout Road (E332405A). Continue on E332405A for 1.5 miles and turn right at the fork onto road E332404A. Unit 1 is located approximately 0.25 miles from fork.
From Okanogan, WA, travel approximately 17 miles west on State Route 20 to DNR road E332405K on Northside of highway. Turn right (north) off of highway and proceed through stretch gate. Unit 2 is located approximately 1 mile from the highway. Unit 1 may be reached by continuing an additional 0.75 miles on state route 20 past unit 2 to Buck Mtn Lookout Road (E332405A). Continue on E332405A for 1.5 miles and turn right at the fork onto road E332404A. Unit 1 is located approximately 0.25 miles from fork.
DNR Timber Sale Cultural Resource Screening & Documentation

As with other concerns that could affect a timber sale (wildlife, geology, etc.), the Department has a legal and ethical obligation to document and manage cultural resources on state trust lands. For staff to efficiently screen all planned timber sales for potential cultural resource concerns, this screening checklist and review documentation form has been developed for statewide use.

When planning a timber sale, Cultural Resource Technicians (CRT) and Archaeologist(s) should be provided adequate time to review information collected during sale screening and to complete all appropriate subsequent steps prior to sale finalization. Cultural resources work should be completed on your timber sale six months prior to the planned auction date. *It is imperative that a CRT is involved as early as possible during this review process to ensure proposed sales do not get delayed.*

This flow chart provides a simplified depiction of the cultural resources screening process. When applicable, boxes shown in the right column will lead to information needed for both the FPA and SEPA Checklist. Staff are advised to follow the SEPA Checklist guidance linked on the next page and to work with a CRT or Archaeologist to determine appropriate language when necessary.

```
Run a Special Concerns Report for all sale units and review results. Are any Cultural Resources Listed in the Report?

YES

Contact the Local CRT for review and escalation to archaeologist if appropriate.

NO

Check with local CRT for Desk Review. Did CRT find anything during Desk Review?

YES

CRT should contact archaeologist if appropriate.

NO

Contact the Local CRT for review and escalation to archaeologist if appropriate.

YES

Contact local CRT to review findings in the field. CRT will escalate to archaeologist if appropriate.

NO

Draft FPA and SEPA Checklist referencing current guidance.
```
Planning/Desk Review Screening Steps

1. Contact anyone (forester, unit forester, district manager, etc.) who may have local knowledge or know the history of the area in which the planned activity is located. These knowledgeable people may have insights regarding the location of undocumented cultural resources or information about known cultural resources within the proposal area.

2. Run a [Special Concerns Report](#) or use the [Special Concerns tool in ArcMap](#)
   a. Note any concerns and record the site numbers (i.e. TN00402) or other relevant data in appropriate section below

3. Use [TopoView Beta](#) to view/review historical USGS topographic maps:
   a. Navigate to activity location
   b. Click on area to display available maps
   c. Click on desired map in right panel to display more options
      i. Down Arrows – download map as JPEG, GeoTiff, GeoPDF, or KMZ
      ii. “Show” – displays selected map on overview map
      iii. “Info” – displays map information (i.e. date)
      iv. “Zoom” – goes to full selected map extent
      v. “Pan” – automatically pans to selected map at current scale
   d. Note any mapped concerns such as grades, trails, or structures and document in appropriate section below.

4. Review the General Land Office (GLO) maps. These maps are often pre-1900 and will show various trails, grades, roads, structures, etc. GLO maps can be viewed either by:
   a. Going directly to the US Bureau of Land Management’s [GLO Records Search](#)
      i. Select applicable State, County, Township, Range
      ii. Click “Search Surveys”
      iii. Click “Plat Image” link to view map
   b. Adding the “Survey – GLO Plat Map Layers” from quick data loader (QDL) in ArcMap
      i. Add layer from QDL: core/Admin Boundaries & Survey (Cadastral)/ Survey GLO Plat Map Layers
      ii. Navigate to sale area
      iii. Note any mapped concerns such as grades, trails, or structures and document in appropriate section below

5. If any potential concern(s) or area(s) of interest is identified within the proposal area from any of the sources listed above, contact a CRT and provide them notes of potential concerns. The CRT will complete further review and take appropriate next steps.

6. Standardized language exists for the cultural resource section of the SEPA Checklist and can be found here: [Timber Sale SEPA Checklist Guidance](#)
Cultural Resource Screening Documentation

Potential cultural resource concerns identified during remote reviews and all work completed as part of cultural resources review during sale planning and layout should be documented in the appropriate sections below. This form should be appropriately saved with other specialist documents to record the diligent efforts undertaken to review for and protect cultural resources.

Project Name: Q Buck Central
Region/District: NE/South Okanogan

Desk Review

Special Concerns Report
Completed By: Steven Hanson Date Completed: 02/19/2021

See attached special concerns report

Historical USGS Map Review
Completed By: Steven Hanson Date Completed: 02/22/2021
Indicate Maps Reviewed and Potential Resources Concerns (include title, scale, and date):

USGS Buck Mountain Quadrangle 1:24000 1989
USGS Loup Loup Quadrangle 1:62500 1956
USGS Okanogan Quadrangle 1:125000 1905

GLO Map Review
Completed By: Steven Hanson Date Completed: 02/22/2021
Indicate Maps Reviewed and Potential Resources Concerns (include date(s) and legal description(s)):

1920 Cadastral Survey Map of T34N R24E Willamette Meridian

CRT Review
Completed By: Steven Hanson Date Completed: N/A
Review potential conflicts, tract data, local historical maps, local knowledge:

CRT review was not needed due to remote review by DNR state lands archaeologist

Modified February 2022
Field Review

Presales/Reconnaissance
Completed By: Steven Hanson

CRT Reconnaissance
Completed By: Steven Hanson  Date Completed: N/A
Yes ☐ No ☒
Detail methods and findings or indicate why no CRT Review is needed. Elevate to State Lands Archaeologist for any potential cultural resources identified.

CRT review was not needed due to remote review by DNR state lands archaeologist

Archaeologist Review Required
Completed By: Nate Morse  Date Completed: 7/7/2021
Yes ☒ No ☐
Review CRSD and detail any survey methods and findings. Provide recommendations for site avoidance during operations.

Archaeologist noted a mapped prospector hole recorded on the 1920 Cadastral Survey Map of T34N R24E. Upon field review and use of LiDAR imagery the mapped feature included three different prospecting pits that were recorded under site # OK02543. The recorded site was mapped and will be excluded from the proposed area using a buffer distance of at least 33 feet.

Other Information and Documentation
Completed
Stakeholder Outreach (Tribes, local group(s), etc.)
Completed By: Steven Hanson  Date Completed: 12/21/2021
Yes ☒ No ☐
Provide names and dates of contacts, or indicate why no outreach has occurred.

John Davis 12/21/2021
Guy Moura 12/21/2021

Additional Notes/Other Resources
List other sources used to identify potential cultural resource concerns during review including source citation (author(s), year created/written, location obtained, etc.).