

Form 1: Identification of VECCs

| Component Type | VECCs | Justification |
|-------------------------------------|--|--|
| ENVIRONMENTAL | | |
| Ungulates | Woodland caribou | Maintain quality habitat |
| Ungulates | Moose | Maintain of quality habitat |
| Furbearers | Marten | Trapping values |
| Forest birds | Northern goshawk, boreal owl, three-toed woodpecker, pileated woodpecker, passerines, water fowl | Maintain diversity/ quality habitat |
| Unique terrain features | Riparian management areas, Forest Ecosystem Network | Maintain landscape features |
| Aquatic resources | Fish and fish habitat, water quality | Maintain quality habitat |
| CULTURAL | | |
| Traditional and community lifestyle | Trapping, hunting, gatherings, berry picking | Maintain traditional and cultural lifestyles |
| Wilderness values | Recreation, visual quality, tourism, etc | Maintain wilderness values of the area |

Form 2: Identification of Temporal Bounding

Table 8.0. Identification of Temporal Bounding

| | MONTH | | | | | | | | | | | |
|--|-------|-----|-----|-----|------------|-----|-----|-----|-----|------------|------------|-----|
| | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec |
| VECCs | | | | | | | | | | | | |
| Woodland caribou | X | X | X | X | | | | | | | | |
| Moose | X | X | X | X | X | X | X | X | X | X | X | X |
| Furbearers | X | X | X | X | X | X | X | X | X | X | X | X |
| Forest birds | X | X | X | X | X | X | X | X | X | X | X | X |
| Unique terrain features | X | X | X | X | X | X | X | X | X | X | X | X |
| Aquatic resources | X | X | X | X | X | X | X | X | X | X | X | X |
| Traditional/community lifestyle | X | X | X | X | X | X | X | X | X | X | X | X |
| Wilderness values | X | X | X | X | X | X | X | X | X | X | X | X |
| PROJECT ACTIVITY/ DISTURBANCE | | | | | | | | | | | | |
| Disturbance of Soils | | | | | | S | S | S | S | | | |
| Alteration of Surficial Geology | | | | | | S | S | S | S | | | |
| Removal of Vegetation ¹ | W | W | W | | Possible S | S | S | S | S | Possible S | Possible W | W |
| Burning of Slash | X | X | X | BP | BP | BP | BP | BP | BP | BP | X | X |
| Human Presence | X | X | X | X | X | X | X | X | X | X | X | X |
| Motorized Vehicle use | X | X | X | X | X | X | X | X | X | X | X | X |
| Resource Extraction | W | W | W | | | S | S | S | S | | | W |
| ¹ Determination of winter or summer harvesting depends on weather conditions (snowfall and spring breakup, etc.). W=winter (for winter logging); S=summer (for summer logging); BP=with burning permit and permission from fire officer only. | | | | | | | | | | | | |

Form 3. Identification of Local Effects and their Mitigation

| Possible Project Effects | VECCs Affected | Effects Mitigatable? (X) | | Mitigation Description | Mitigation Success (X) | | |
|--|---|--------------------------|---|--|------------------------|---------|----------|
| | | Y | N | | None | Partial | Complete |
| ENVIRONMENTAL | | | | | | | |
| Habitat loss | Forest birds, marten | X | | Coarse woody debris piles will be left randomly in the blocks, as well as all snags (other than those that are considered safety hazards), dispersed retention, FEN, internal reserves and riparian management areas. Buffers shall be provided if Northern goshawk nests are found. | | X | |
| Habitat fragmentation | Wildlife | X | | Proposing blocks adjacent to existing blocks (concentrating blocks) reduces landscape level fragmentation, corridors, FEN, riparian management areas and set-aside. | | X | |
| Disruption of wildlife movement | Wildlife | X | | Connectivity, FEN, riparian management areas and set-aside areas reduce the disruption of wildlife movement. | | X | |
| Increase of wildlife mortality due to access. | Wildlife | X | | Deactivation of access roads will limit vehicle access into the area. | | X | |
| Altered water quality. | Water resources | | | | | X | |
| CULTURAL | | | | | | | |
| Alteration to traditional/community lifestyle. | Trapping, hunting, gathering, berry picking | X | | Species that establish in cutblocks will promote berry picking after harvesting. | | X | |
| Reduction in wilderness values. | Recreation, visual quality | X | | Variable retention strategy will limit visual quality concerns, while the set-aside, FEN, riparian management areas and buffers from the Alaska Highway will provide forest connectivity and mitigate for wilderness values. | | X | |

Form 4: Identification of Regional Issues

| SPECIAL FEATURES | DESCRIPTION |
|---|--|
| Protected Areas Nearby | N/A |
| Critical Habitat Nearby | The Rancheria Caribou Herd's winter range is considered to be critical habitat; however, the Rancheria Caribou Herd's habitat does not presently extend into the East Hyland Planning Area. Caribou were viewed in the alpine sites of the northeast corner of the East Hyland planning area (part of the summer range), but is not in proximity to the planned areas. |
| Unique Landscape Features nearby | No unique landscape features are near the East Hyland Planning Area. |
| Rare/Endangered Species nearby | No rare/endangered species are nearby. |
| Heavily Disturbed Areas nearby | Areas that are disturbed nearby include the Alaska Highway corridor and existing cutblocks near the proposed cutblocks. |
| THRESHOLDS | DESCRIPTION |
| Air | N/A |
| Water | N/A |
| Soils | N/A |
| Vegetation | N/A |
| Wildlife | N/A |
| Resource Use | N/A |
| REGIONAL LAND USE MANAGEMENT INITIATIVES | |
| Little Rancheria Caribou Herd Management Plan | There is protection of the Rancheria Caribou Herd through operational thresholds. |

Form 5: Guideline to Spatial Bounding

| Project / Activity | Bound #1 | Bound #2 | | | | | | | | |
|--------------------|--|----------|---------------------|--------------------|--------------------|---------------------|------|-------|---------------------------|---------------------------|
| | | air | low flow water body | flowing water body | vegetation/habitat | terrestrial mammals | fish | birds | recreational/cultural use | other resource extraction |
| Timber Harvesting | Existing blocks within the East Hyland Planning Area | 1 | waterbody | 5 | 5 | 20 | 5 | 5 | 5 | 5 |

Form 6: Project Inclusion List for Cumulative Effects Assessment

| Type of Project | Name or Description | Status | | |
|---------------------|--|--------|---------|--------|
| | | Past | Current | Future |
| Forestry Harvesting | Harvesting in the East Hyland Planning Area. | X | X | X |
| Linear Developments | Alaska Highway Pipeline. | | | X |
| Roads | Logging roads. | X | X | X |
| | Alaska Highway. | X | X | |
| Settlements | Residence at Blind Lake. | X | X | X |
| Resource Harvesting | Moose hunting, trapping, other hunting, aquaculture license for arctic char at Blind Lake. | X | X | X |
| Recreational | Wildlife viewing, camping, canoeing, berry picking, gathering, etc. | X | X | X |

Form 7: Identification of Regional Cumulative Effects and their Mitigation

| Possible Project Effects | VECCs Affected | Effects Mitigatable ? (X) | | Mitigation Description | Mitigation Success (X) | | |
|--|----------------------|---------------------------|---|--|------------------------|---------|----------|
| | | Y | N | | None | Partial | Complete |
| ENVIRONMENTAL | | | | | | | |
| Long range transport of chemical contaminants. | N/A | | | | | | |
| Long range transport of physical constituents. | N/A | | | | | | |
| Direct habitat loss/ habitat alteration. | Moose, marten, birds | X | | Coarse woody debris piles (3m x 3m x 3m) will be left randomly in the blocks, as well as all snags (other than those that are considered safety hazards), dispersed retention, FEN, internal reserves. | | X | |
| Habitat fragmentation. | Moose, marten, birds | X | | Proposing blocks adjacent to existing blocks (concentrating blocks) reduces landscape level fragmentation. | | X | |
| Disruption of wildlife movement. | Moose, marten, birds | X | | Connectivity, FEN, riparian management areas and set-aside areas reduce the disruption of wildlife movement. | | X | |
| direct mortality of wildlife | Moose, marten, birds | X | | Deactivation of access roads after 3 years will limit vehicle access into the Cosh Creek watershed. Deactivation will include installation of cross ditches for diverting water away from road surfaces and the removal of stream crossing | | X | |
| CULTURAL | | | | | | | |
| Changes to community services and life quality | | | | | | | |

| | | | | | | | |
|---|----------|---|--|--|--|---|--|
| Economic redistribution (eg.income) | trappers | X | | Trapline buffers and slash management (marten) | | X | |
| Alteration of traditional/cultural activities | | | | | | | |

Form 8: Baseline Information

| VECC | Information Sources and/or Information Provided | Maps Provided? |
|--|--|---|
| Caribou, moose, ungulates, furbearers, carnivores, forest birds, wilderness values, aquatic resources. | DeGraff 2004; Interim Wood Supply Technical Working Group 2004; IFS 2003; KFRSC 2004; Kiemele et. al. 2003, MacLean 2005; P. Beaudry and Associates 2004; Thomas Heritage Consulting 2004; Tobler and Richards 2002; Tobler 2002; Tobler 2004; White 2004. | Maps are provided in some of the information sources. |

Form 9: Screening of Local Effects

| Activities | VECCs | | | | | |
|-----------------------|---------|-------|------------|--------------|--|----------------------|
| | Caribou | Moose | Furbearers | Forest Birds | Traditional/ Community Lifestyle | Wilderness Values |
| Disturbance of Soils | L | L | L | L | L | L |
| Removal of Vegetation | M | M | M | M | L | M |
| Human Presence | L | L | L | L | L | L |
| Motorized Vehicle Use | L | L | L | L | L | L |
| Resource Extraction | L | L | L | L | L | L |
| Surficial Geology | | | | | | |

Form 10: Screening of Cumulative Effects

| Type of Cumulative Effect | VECCs | Other Projects/ Activities | | | | |
|--|---------------|----------------------------|----------------|---------------|------------------|--|
| | | Forest Harvesting | Alaska Highway | Logging roads | Hunting/ Fishing | |
| Landscape Nibbling | | | | | | |
| Direct Habitat Loss | caribou | L | L | L | L | |
| | birds | L | L | L | L | |
| Habitat Fragmentation | caribou | L | L | L | L | |
| | birds | L | L | L | L | |
| Blockage of wildlife movements | caribou | L | L | L | L | |
| | | | | | | |
| Direct-mortality of wildlife | caribou | L | L | L | L | |
| | | | | | | |
| Socio-economic | | | | | | |
| Changes to community service/ quality of life | public safety | L | L | L | L | |
| Economic Redistribution | | | | | | |
| Alteration of traditional/ cultural activities | | | | | | |