

# Land Use Permit Appendix B

Tuesday, March 19, 2019

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<b><u>Physical - Chemical Effects</u></b>	
<b>IMPACT</b>	<b>MITIGATION</b>
Ground Water	
Water table alteration	
Water quality changes	Spill prevention and response measures will be implemented
Infiltration changes	
Other	
Surface Water	
Flow or level changes	
Water quality changes	Spill prevention and response measures will be implemented
Drainage pattern changes	
Temperature	
Wetland change/loss	
Other	
Noise	
Noise in/near water	
Noise increase	
Other	
Land	
Geologic structure changes	
Soil contamination	
Buffer zone loss	
Soil compaction and settling	

Destabilization/erosion	
Permafrost regime alteration	
Explosives/scarring	
Other (such as soil microbes)	
Non-renewable natural resources	
Resource depletion	
Other	
Air/climate/atmosphere	
Other	Limit idling of vehicles

<b><u>Biological Environment</u></b>	
<b>IMPACT</b>	<b>MITIGATION</b>
Vegetation	The winter road will be constructed within the footprint of the historical winter road; therefore, a large portion of the footprint is cleared of vegetation. The remaining portions of the alignment will primarily require brushing to remove regrown shrubs. Tree removal will not be required.
Species composition	
Species introduction	Vehicles will be clean of vegetation prior to entering and leaving the project
Toxin/heavy accumulation	
Other (such as species distribution, any rare species or species at risk, plant phenology, growth, and reproduction)	
Wildlife and fish	
Effects on rare, threatened, or endangered species	

Fish population changes	
Waterfowl population changes	
Breeding disturbance	
Population reduction	Hunting, trapping, and fishing will be prohibited by all project staff and contractors.
Species diversity change	
Health changes	
Behavioral changes	A speed limit of 30 km/h will be adhered to. Jump-outs will be incorporated into the banks. Vehicles will travel in convoy to minimize disturbance
Habitat changes/effects	Road will be constructed within the same alignment of the previously-constructed road.
Game species/effects	Hunting, trapping, and fishing will be prohibited by all project staff and contractors.
Toxins/heavy metals	
Forestry changes	
Agricultural changes	
Other	

<b><u>Interacting Environment</u></b>	
<b>IMPACT</b>	<b>MITIGATION</b>
Habitat and Communities	
Predator-prey	
Wildlife habitat/ecosystem composition changes	
Reduction/removal of keystone or endangered	Hunting, trapping,

species	and fishing will be prohibited by all project staff and contractors.
Removal of wildlife corridor or buffer zone	
Other	
Social and Economic	
Planning/zoning changes or conflicts	
Increase in urban facilities or services use	
Rental house	
Airport operations/capacity changes	
Human health hazard	
Impair the recreational use of water or aesthetic quality	
Affect water use for other purposes	
Affect other land use operations	
Quality of life changes	
Other	
<b><u>Cultural and Heritage</u></b>	
<b>IMPACT</b>	<b>MITIGATION</b>
Habitat and Communities	
Effects to historic property	
Increased economic pressure on historic properties	
Change too r loss of historic properties	
Change to or loss of historic resources	
Change to or loss of archaeological resources	
Social and Economic	
Increased pressure on archaeological sites	
Effects on Aboriginal lifestyle	Consulted with trapper who has

	registered trapline in the project area.
Other	