

Impact Mitigation Table for W2018C0007 Amendment Request, 6 January 2022

<p align="center">Potential Impacts <i>Use an "X" to indicate which apply</i></p>	<p align="center">X</p>	<p align="center">Potential Project Impacts and Proposed Mitigations <i>Describe the potential impact(s) and the proposed measure(s) to reduce each of these impacts.</i></p>
ABIOTIC COMPONENTS		
Land		
Soil contamination	X	Fuel spills could lead to soil contamination. Fuel will be stored in a developed laydown area near the airstrip with a lined containment facility. Fuel transportation to work sites and fuel transfer will follow methods outlined in the Spill Contingency Plan. Nighthawk will adhere to Permit conditions 26(1)(g) and 26(1)(m) that require monitoring for fuel leaks, maintaining 100 metre setback from water, providing secondary containment, mark the location of fuel caches, store drums with outlets at 3 and 9 o'clock, maintain spill response equipment, adhere to the Spill Contingency Plan and report and clean up all spills immediately.
Soil compaction		
Destabilization/erosion		
Change in soil structure		
Inability to support vegetation		
Other		
Water		
Groundwater		
Water table alteration		
Infiltration changes		
Changes in water quality	X	Fuel spills could lead to change in groundwater quality. Nighthawk will adhere to Permit conditions 26(1)(g) and 26(1)(m) that require monitoring for fuel leaks, maintaining 100 metre setback from water, providing secondary containment, mark the location of fuel caches, store drums with outlets at 3 and 9 o'clock, maintain spill response equipment, adhere to the Spill Contingency Plan and report and clean up all spills immediately.
Temperature changes		
Other		
Permafrost		
Loss or change in extent		
Changes in seasonal fluctuations		
Change in persistence		
Other		

Potential Impacts <i>Use an "X" to indicate which apply</i>	X	Potential Project Impacts and Proposed Mitigations <i>Describe the potential impact(s) and the proposed measure(s) to reduce each of these impacts.</i>
Surface Water		
Water flow or level changes (permanent, temporary, seasonal)		
Drainage pattern changes		
Temperature changes		
Changes in water quality	X	Fuel spills could lead to change in water quality. Nighthawk will adhere to Permit conditions 26(1)(g) and 26(1)(m) that require monitoring for fuel leaks, maintaining 100 metre setback from water, providing secondary containment, mark the location of fuel caches, store drums with outlets at 3 and 9 o'clock, maintain spill response equipment, adhere to the Spill Contingency Plan and report and clean up all spills immediately.
Wetland impairment		
Changes to aquatic habitat (see Biotic section below)		
Other		
Air		
Changes in air quality		
Harm to living things		
Increased greenhouse gases	X	Use of fuel will lead to greenhouse gas emissions.
Other		
BIOTIC COMPONENTS		
Vegetation		
Direct loss of vegetation		
Loss of Species at Risk or may-be-at-risk plants		
Change in species composition		
Introduction of non-native (invasive) species		
Effects on plant health (dust, metals, toxins)		
Increased risk of fire		
Compaction of vegetation		
Other		
Terrestrial Wildlife Habitat		
Direct loss or removal of habitat, dens, or nests		
Loss or removal of keystone species and/or Species at Risk habitat		
Fragmentation of wildlife corridor		
Direct injury or mortality		
Disturbances to key lifecycle stages: breeding, feeding, nesting, staging		
Effects on population abundance		

Potential Impacts <i>Use an "X" to indicate which apply</i>	X	Potential Project Impacts and Proposed Mitigations <i>Describe the potential impact(s) and the proposed measure(s) to reduce each of these impacts.</i>
Change in species diversity		
Effects on wildlife health (toxins, metals, etc.)		
Changes to migratory movement patterns		
Changes to predator-prey relationships		
Human-wildlife conflicts		
Other		
Aquatic Habitat		
Breeding disturbances		
Change in species diversity		
Effects on health (toxins, metals, sediment, etc.)		
Changes to migratory movement patterns		
Changes to predator-prey relationships		
Effects on population abundance		
Change in species diversity		
Other		
CULTURAL COMPONENTS		
Wildlife Harvesting		
Loss or reduction in game species populations		
Effects on traditional land use, subsistence, and harvesting rights		
Other		
Cultural Integrity and Heritage Resources		
Change to or loss of cultural integrity		
Change to or loss of traditional lifestyle		
Change to or loss of heritage resource		
Other		
Social and Economic Well-being		
Increased human health hazard and risk		
Economic opportunities or losses (employment, training)		
Change in ecological, cultural, social, or economic values identified for protection in approved Land Use Plans		
Impairment of the recreational or traditional uses of the land or water		
Impairment of the aesthetic quality of the land or water		
Changes to the use of the area by other non-Indigenous people (e.g., trappers, outfitters, residents, hunters, forest harvesters, other authorized projects)		
Other		