

EFFECTS ASSESSMENT, CONSTRUCTION PHASE

VALUED COMPONENT	ACTIVITY								PROPOSED MITIGATION MEASURE	RESIDUAL IMPACTS	PROPOSED MONITORING SCHEDULE	REPORTING SCHEDULE
	Aerial Surveys	Airstrip use or construction	Baseline data	Camp	Drilling	Fuel & chemical storage	Mineral exploration	Waste disposal				
Designated Environmental Areas	-	-	-	-	-	-	-	-	-	-	-	-
Ground Stability	-	NM	-	NM	-	-	-	-	Construct camp on a durable surface. Restrict heavy equipment operation and activities where possible to existing disturbed areas. Move equipment overland only when conditions are such that rutting or gouging will not occur. Maintain a minimum of 10 cm of snow cover when move equipment overland over snow. Using existing historical aircraft landing area. Implement <i>Environmental and Heritage Resources Protection Plan</i> .	None predicted	In accordance with NIRB Screening Decision Report, Land Use Licence, Land Use Permit and Water Licence terms and conditions, where applicable.	
Permafrost	-	-	-	-	-	-	-	-	-	-	-	-
Hydrology/Limnology	-	-	-	-	-	-	-	-	-	-	-	-

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	Aerial Surveys	Airstrip use or construction	Baseline data	Camp	Drilling	Fuel & chemical storage	Mineral exploration	Waste disposal				
Water Quality	-	-	-	-	-	-	-	-	-	-	-	-
Climate Conditions	-	-	-	-	-	-	-	-	-	-	-	-
Eskers and other unique or fragile landscapes	-	NM	-	NM	-	-	-	-	Using existing historical disturbed areas to the greatest extent possible. Implement <i>Environmental and Heritage Resources Protection Plan</i> .	None predicted	In accordance with NIRB Screening Decision Report, Land Use Licence, Land Use Permit and Water Licence terms and conditions, where applicable.	
Surface and bedrock geology	-	-	-	-	-	-	-	-	-	-	-	-
Sediment and Soil Quality	-	-	-	-	-	-	-	-	-	-	-	-
Tidal processes and bathymetry	-	-	-	-	-	-	-	-	-	-	-	-
Air Quality	-	-	-	-	-	-	-	-	-	-	-	-
Noise Levels	-	-	-	-	-	-	-	-	-	-	-	-
BIOLOGICAL RESOURCES												
Vegetation	-	-	-	NM	-	-	-	-	Install a temporary camp. Install camp in an area such that the need for vegetation removal is reduced or eliminated.	None predicted	In accordance with NIRB Screening Decision Report, Land Use Licence, Land Use Permit and Water Licence terms and conditions, where applicable.	
Wildlife	-	-	-	NM	-	NM	-	-	Construct facilities outside sensitive timing windows for wildlife. Implement <i>Environmental and Heritage Resources Protection Plan</i> .	None predicted	In accordance with the <i>Environmental and Heritage Resources Protection Plan</i> .	In accordance with NIRB Screening Decision Report, Land Use Licence, Land Use Permit and Water Licence terms and

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	Aerial Surveys	Airstrip use or construction	Baseline data	Camp	Drilling	Fuel & chemical storage	Mineral exploration	Waste disposal				
												conditions, where applicable.
Birds	-	-	-	NM	-	NM	-	-	Construct facilities outside sensitive timing windows for wildlife. Implement <i>Environmental and Heritage Resources Protection Plan</i> .	None predicted	In accordance with the <i>Environmental and Heritage Resources Protection Plan</i> .	In accordance with NIRB Screening Decision Report, Land Use Licence, Land Use Permit and Water Licence terms and conditions, where applicable.
Aquatic species	-	-	-	NM	-	-	-	-	Equip water intake hoses with appropriately sized mesh screens. Avoid water withdrawal from streams and small lakes.	None predicted	In accordance with NIRB Screening Decision Report, Land Use Licence, Land Use Permit and Water Licence terms and conditions, where applicable.	
Wildlife protected areas	-	-	-	-	-	-	-	-	-	-	-	-
SOCIO-ECONOMIC RESOURCES												
Archaeological and cultural historic sites	-	-	-	NM	-	NM	-	-	Conduct and archaeological impact assessment prior to establishing new facilities outside the existing disturbed area. Implement <i>Environmental and Heritage Resources Protection Plan</i> .	None predicted	In accordance with NIRB Screening Decision Report, Land Use Licence and Archealogist Permit terms and conditions, where applicable.	
Employment	-	P	-	P	-	P	-	-	Utilize local personnel and business wherever possible.	Positive: economic benefits for Kitikmeot residents and businesses employed, directly or indirectly, by the Project.	In accordance with NIRB Screening Decision Report, Land Use Licence, Land Use Permit and Water Licence terms and conditions, where applicable.	
Community Wellness	-	-	-	P	-	P	-	-	Utilize local personnel and business wherever possible.	Sustainable employment supports overall community wellness.	In accordance with NIRB Screening Decision Report, Land Use Licence, Land Use Permit and Water Licence terms and conditions, where applicable.	

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	Aerial Surveys	Airstrip use or construction	Baseline data	Camp	Drilling	Fuel & chemical storage	Mineral exploration	Waste disposal				
Community Infrastructure	-	-	-	P	-	-	-	-	Constructing and maintaining regional infrastructure relieves pressure on local infrastructure that may arise from industrial activity.	None predicted	In accordance with NIRB Screening Decision Report, Land Use Licence, Land Use Permit and Water Licence terms and conditions, where applicable.	
Human Health	-	-	-		-	-	-	-				

EFFECTS ASSESSMENT, OPERATION PHASE

VALUED COMPONENT	ACTIVITY								PROPOSED MITIGATION MEASURE	RESIDUAL IMPACTS	PROPOSED MONITORING SCHEDULE	REPORTING SCHEDULE
	Aerial Surveys	Airstrip use or construction	Baseline data	Camp	Drilling	Fuel & chemical storage	Mineral exploration	Waste disposal				
Designated Environmental Areas	-	-	-	-	-	-	-	-	-	-	-	-
Ground Stability	-	NM	P	NM	NM	-	-	NM	Set up drills on durable land. Backfill and cap drill holes prior to the end of each field season. Utilize existing disturbed aircraft landing area to greatest extent possible. Deposit waste to a suitable sump or depression and inspect for stability, capacity, erosion. Restrict heavy equipment operation and activities where possible to existing disturbed areas. Move equipment overland only when conditions are such that rutting or gouging will not occur. Maintain a minimum of 10 cm of snow cover when move equipment overland over snow. Implement the <i>Closure and Reclamation Plan</i> , <i>Waste Management Plan</i> and the <i>Environmental and Heritage Resources Protection Plan</i> .	None predicted	In accordance with NIRB Screening Decision Report, Land Use Licence, Land Use Permit and Water Licence terms and conditions, where applicable.	

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	Aerial Surveys	Airstrip use or construction	Baseline data	Camp	Drilling	Fuel & chemical storage	Mineral exploration	Waste disposal				
Permafrost	-	-	P	NM	NM	-	-	NM	Reduce use of hot water for drilling and related thawing and thermokarst at the drill collar. Avoid excavations where meltwater may accumulate.	None predicted	In accordance with NIRB Screening Decision Report, Land Use Licence, Land Use Permit and Water Licence terms and conditions, where applicable.	
Hydrology/Limnology	-	-	P	NM	NM	-	-	-	Water use in accordance with water licence. Implement <i>Environmental and Heritage Resources Protection Plan</i> .	None predicted	In accordance with NIRB Screening Decision Report, Land Use Licence, Land Use Permit and Water Licence terms and conditions, where applicable.	
Water Quality	-	-	P	NM	NM	NM	-	NM	Use only inert drill additives when drilling on ice. Implement erosion control where necessary, to prevent sediment from entering any waterbody. Deposit inert drill water in a suitable sized upland sump, greater than 31 m above the high water mark of any watercourse. Discharge grey water and other effluents in accordance with Water Licence terms and conditions. Store materials within suitable secondary containment. Activate the <i>Spill Response Plan</i> where required. Implement <i>Environmental and Heritage Resources Protection Plan</i> and the approved <i>Interim Water Management Plan</i> .	None predicted	In accordance with NIRB Screening Decision Report, Land Use Licence, Land Use Permit and Water Licence terms and conditions, where applicable.	
Climate Conditions	-	-	P	-	-	-	-	-	-	-	-	-
Eskers and other unique or fragile landscapes	-	-	P	-	-	-	-	-	-	-	-	-
Surface and bedrock geology	-	-	P	-	-	-	P	-	-	Acquisition of new knowledge	-	-

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	Aerial Surveys	Airstrip use or construction	Baseline data	Camp	Drilling	Fuel & chemical storage	Mineral exploration	Waste disposal				
Sediment and Soil Quality	-	-	P	NM	NM	NM	-	NM	Store materials within suitable secondary containment. Use only inert drill additives when drilling on ice. Activate <i>Spill Response Plan</i> where required. Implement <i>Environmental and Heritage Resources Protection Plan</i> .	None predicted	In accordance with NIRB Screening Decision Report, Land Use Licence, Land Use Permit and Water Licence terms and conditions, where applicable.	
Tidal processes and bathymetry	-	-	P	-	-	-	-	-	-	-	-	-
Air Quality	NM	NM	P	NM	NM	-	-	NM	Incinerate camp wastes in compliance with the <i>Canada Wide Standards for Dioxins and Furans and Mercury</i> (CCME 2001). Open burn only clean wood and paper products that are too large to be incinerated. Conduct routine preventative maintenance on generators and engines. Implement <i>Environmental and Heritage Resources Protection Plan</i> . Avoid incinerating waste oil/grease.	None predicted	In accordance with NIRB Screening Decision Report, Land Use Licence, Land Use Permit and Water Licence terms and conditions, where applicable.	
Noise Levels	NM	NM	P	NM	NM	-	-	-	Conduct routine preventative maintenance on generators and engines. Ensure mufflers are in use, as required by manufacturers. Implement <i>Environmental and Heritage Resources Protection Plan</i> .	None predicted	In accordance with NIRB Screening Decision Report, Land Use Licence, Land Use Permit and Water Licence terms and conditions, where applicable.	
BIOLOGICAL RESOURCES												

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	Aerial Surveys	Airstrip use or construction	Baseline data	Camp	Drilling	Fuel & chemical storage	Mineral exploration	Waste disposal				
Vegetation	-	-	P	-	NM	-	-	-	Prevent drill cuttings from free flowing onto the tundra	-		
Wildlife	NM	NM	P	NM	-	-	-	NM	Implement mobile protection measures. Observe aircraft flying heights. Ensure wildlife are given the right of way at all times. Avoid harassment or feeding of any wildlife for any purposes, including photographing from the ground or air. Prohibit all project personnel from hunting while on site. Implement <i>Environmental and Heritage Resources Protection Plan</i> .	None predicted	In accordance with the <i>Environmental and Heritage Resources Protection</i>	In accordance with NIRB Screening Decision Report, Land Use Licence, Land Use Permit and Water Licence terms and conditions, where applicable.
Birds	NM	NM	P	NM	-	-	-	-	Observe aircraft flying heights. Ensure wildlife are given the right of way at all times. Avoid harassment or feeding of any wildlife for any purposes, including photographing from the ground or air. Prohibit all project personnel from hunting while on site. Implement <i>Environmental and Heritage Resources Protection Plan..</i>	None predicted	In accordance with the <i>Environmental and Heritage Resources Protection</i>	In accordance with NIRB Screening Decision Report, Land Use Licence, Land Use Permit and Water Licence terms and conditions, where applicable.
Aquatic species	-	-	P	NM	NM	-	-	NM	Equip water intake hoses with appropriately sized mesh screens. Avoid water withdrawal from streams and small lakes. Store materials within suitable secondary containment.	None predicted	In accordance with NIRB Screening Decision Report, Land Use Licence, Land Use Permit and Water Licence terms and conditions, where applicable.	

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	Aerial Surveys	Airstrip use or construction	Baseline data	Camp	Drilling	Fuel & chemical storage	Mineral exploration	Waste disposal				
									Deposit inert drill water in a suitable sized upland sump, greater than 31 m above the high water mark of any watercourse. Discharge grey water and other effluents in accordance with Water Licence terms and conditions. Activate the <i>Spill Response Plan</i> where required.			
Wildlife protected areas	-	-	-	-	-	-	-	-	-	-	-	-
SOCIO-ECONOMIC RESOURCES												
Archaeological and cultural historic sites	-	-	P	-	NM	-	-	-	Conduct and archaeological impact assessment prior to establishing new drill set ups outside the existing disturbed area. Implement <i>Environmental and Heritage Resources Protection Plan</i> .	None predicted	In accordance with NIRB Screening Decision Report, Land Use Licence and Archealogist Permit terms and conditions, where applicable.	
Employment	P	P	P	P	P	P	P	P	Utilize local personnel and business wherever possible.	Positive: economic benefits for Kitikmeot residents and businesses employed, directly or indirectly, by the Project.	In accordance with NIRB Screening Decision Report, Land Use Licence, Land Use Permit and Water Licence terms and conditions, where applicable.	
Community Wellness	P	P	P	P	P	P	P	P	Utilize local personnel and business wherever possible.	Sustainable employment supports overall community wellness.	In accordance with NIRB Screening Decision Report, Land Use Licence, Land Use Permit and Water Licence terms and conditions, where applicable.	
Community Infrastructure	-	-	-	-	-	-	-	-	-	-	-	
Human Health	-	-	-	-	-	-	-	-	-	-	-	

EFFECTS ASSESSMENT, DECOMMISSIONING PHASE

VALUED COMPONENT	ACTIVITY								PROPOSED MITIGATION MEASURE	RESIDUAL IMPACTS	PROPOSED MONITORING SCHEDULE	REPORTING SCHEDULE
	Aerial Surveys	Airstrip use or construction	Baseline data	Camp	Drilling	Fuel & chemical storage	Mineral exploration	Waste disposal				
PHYSICAL RESOURCES												
Designated Environmental Areas	-	-	-	-	-	-	-	-	-	-	-	-
Ground Stability	-	-	-	NM	NM	NM	-	-	Restrict heavy equipment operation and activities where possible to existing disturbed areas. Move equipment overland only when conditions are such that rutting or gouging will not occur. Maintain a minimum of 10 cm of snow cover when move equipment overland over snow. Implement <i>Closure and Reclamation Plan, Environmental and Heritage Resources Protection Plan.</i>	None predicted	In accordance with NIRB Screening Decision Report, Land Use Licence, Land Use Permit and Water Licence terms and conditions, where applicable.	
Permafrost	-	-	-	NM	NM	-	-	NM	Ensure sumps are stable, backfilled and otherwise unable to accumulate water. Ensure any erosion around drill collars are backfilled to prevent accumulation of meltwater. Implement <i>Closure and Reclamation Plan.</i>	None predicted	In accordance with NIRB Screening Decision Report, Land Use Licence, Land Use Permit and Water Licence terms and conditions, where applicable.	
Hydrology/Limnology	-	-	-	-	-	-	-	-	-	-	-	-
Water Quality	-	-	-	-	-	-	-	-	-	-	-	-

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	Aerial Surveys	Airstrip use or construction	Baseline data	Camp	Drilling	Fuel & chemical storage	Mineral exploration	Waste disposal				
Climate Conditions	-	-	-	-	-	-	-	-	-	-	-	-
Eskers and other unique or fragile landscapes	-	-	-	-	-	-	-	-	-	-	-	-
Surface and bedrock geology	-	-	-	-	-	-	-	-	-	-	-	-
Sediment and Soil Quality	-	-	-	-	-	-	-	-	-	-	-	-
Tidal processes and bathymetry	-	-	-	-	-	-	-	-	-	-	-	-
Air Quality	-	-	-	-	-	-	-	-	-	-	-	-
Noise Levels	-	-	-	-	-	-	-	-	-	-	-	-
BIOLOGICAL RESOURCES												
Vegetation	-	-	-	-	-	-	-	-	-	-		
Wildlife	-	-	-	-	-	-	-	-	-	-	-	-
Birds	-	-	-	-	-	-	-	-	-	-	-	-
Aquatic species	-	-	-	-	-	-	-	-	-	-	-	-
Wildlife protected areas	-	-	-	-	-	-	-	-	-	-	-	-
SOCIO-ECONOMIC RESOURCES												
Archaeological and cultural historic sites	-	-	-	-	-	-	-	-	-	-	-	-

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	Aerial Surveys	Airstrip use or construction	Baseline data	Camp	Drilling	Fuel & chemical storage	Mineral exploration	Waste disposal				
Employment	-	-	-	-	-	-	-	-	-	-	-	-
Community Wellness	-	-	-	-	-	-	-	-	-	-	-	-
Community Infrastructure	-	-	-	-	-	-	-	-	-	-	-	-
Human Health	-	-	-	-	-	-	-	-	-	-	-	-