

HOOD RIVER GOLD PROJECT: EFFECTS ASSESSMENT

VALUED COMPONENT	ACTIVITY	EFFECT	PROPOSED MITIGATION MEASURE	RESIDUAL IMPACTS	IMPLEMENTATION SCHEDULE	PROPOSED MONITORING SCHEDULE	REPORTING SCHEDULE
PHYSICAL COMPONENTS							
Air Quality	<ul style="list-style-type: none"> Mobilization, drill support, access and demobilization via fixed and rotary wing aircraft Airborne surveys (exploration) Camp operation Drilling 	Negative and Mitigable	<p>Incinerate camp wastes in compliance with the <i>Canada Wide Standards for Dioxins and Furans and Mercury</i>.</p> <p>Avoid incineration of waste oil/grease on site.</p> <p>Conduct routine preventative maintenance on generators and engines.</p> <p>Use low emission vehicles where possible (i.e. use of a drone instead of aircraft for aerial surveys).</p> <p>Implement <i>Environmental and Heritage Resources Protection Plan (attached)</i>.</p>	None predicted	During airborne surveys; ongoing from the commencement of Construction until Closure.	In accordance with NIRB Screening Decision Report, Land Use Licence and Water Licence terms and conditions	In accordance with NIRB Screening Decision Report, Land Use Licence and Water Licence terms and conditions
Ground Stability	<ul style="list-style-type: none"> Camp construction Drilling on land 	Negative and Mitigable	<p>Construct camp on a durable surface.</p> <p>Move equipment overland only when conditions are such that rutting or gouging will not occur.</p> <p>Backfill and cap drill holes prior to the end of each field season.</p> <p>Ensure cuttings sumps are stable prior to the end of each field season.</p> <p>Implement <i>Environmental and Heritage Resources Protection Plan</i>.</p>	None predicted	Ongoing from the commencement of Construction until Closure	In accordance with NIRB Screening Decision Report, Land Use Licence and Water Licence terms and conditions	In accordance with NIRB Screening Decision Report, Land Use Licence and Water Licence terms and conditions
Hydrology	<ul style="list-style-type: none"> Drilling Camp operation 	Negative and Mitigable	<p>Water use in accordance with water licence.</p> <p>Implement <i>Environmental and Heritage Resources Protection Plan</i>.</p>	None predicted	Ongoing from the commencement of Construction until Closure	In accordance with Water Licence terms and conditions	In accordance with Water Licence terms and conditions

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Noise Levels	<ul style="list-style-type: none"> Mobilization, drill support, access and demobilization via fixed and rotary wing aircraft Airborne surveys (exploration) Camp operation Drilling 	Negative and Mitigable	<p>Conduct routine preventative maintenance on generators and engines.</p> <p>Ensure mufflers are in use, as required by manufacturers.</p> <p>Implement <i>Environmental and Heritage Resources Protection Plan</i>.</p>	None predicted	During airborne surveys; ongoing from the commencement of Construction until Closure.	As required by manufacturer	In accordance with NIRB Screening Decision Report, Land Use Licence and Water Licence terms and conditions
Sediment and Soil Quality	<ul style="list-style-type: none"> Drilling 	Negative and Mitigable	<p>Activate <i>Spill Response Plan</i> (attached) where required.</p> <p>Use only inert drill additives when drilling on ice.</p> <p>Implement <i>Environmental and Heritage Resources Protection Plan</i>.</p>	None predicted	Ongoing from the commencement of Construction until Closure	In accordance with NIRB Screening Decision Report, Land Use Licence and Water Licence terms and conditions	In accordance with NIRB Screening Decision Report, Land Use Licence and Water Licence terms and conditions
Water Quality	<ul style="list-style-type: none"> Drilling Camp operation 	Negative and Mitigable	<p>Activate the <i>Spill Response Plan</i> (attached) where required.</p> <p>Use only inert drill additives when drilling on ice.</p> <p>Implement erosion control where necessary, to prevent sediment from entering any waterbody.</p> <p>Deposit inert drill water in a suitable sized upland sump, greater than 31 m above the high water mark of any watercourse.</p> <p>Discharge grey water and other effluents in accordance with Water Licence terms and conditions.</p> <p>Implement <i>Environmental and Heritage Resources Protection Plan</i>.</p>	None predicted	Ongoing from the commencement of Construction until Closure	In accordance with NIRB Screening Decision Report, Land Use Licence and Water Licence terms and conditions	In accordance with NIRB Screening Decision Report, Land Use Licence and Water Licence terms and conditions
BIOLOGICAL COMPONENTS							
Aquatic Species	<ul style="list-style-type: none"> Drilling Camp operation 	Negative and Mitigable	<p>Equip water intake hoses with appropriately sized mesh screens.</p> <p>Avoid water withdrawal from streams and small lakes.</p>	None predicted	During periods of water withdrawal.	In accordance with NIRB Screening Decision Report and Water Licence Terms and Conditions	In accordance with NIRB Screening Decision Report and Water Licence Terms and Conditions

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Birds	<ul style="list-style-type: none"> • Camp construction • Drilling • Mobilization, drill support, access and demobilization via fixed and rotary wing aircraft • Airborne surveys (exploration) • Ground surveys (exploration) 	Negative and Mitigable	Implement the <i>Wildlife Protection Plan</i> (attached).	None predicted	Ongoing from the commencement of Construction until Closure	In accordance with the <i>Wildlife Mitigation and Monitoring Program</i>	In accordance with NIRB Screening Decision Report, Land Use Licence and Water Licence Terms and Conditions
Vegetation	<ul style="list-style-type: none"> • Camp construction • Drilling on land 	Negative and Mitigable	<p>Construct temporary camp on a durable surface.</p> <p>Establish drill sites on durable surfaces.</p> <p>Move equipment overland only when conditions are such that rutting or gouging will not occur.</p> <p>Minimize salt use during diamond drilling where possible.</p> <p>Minimize drill water discharge to tundra to the greatest extent possible during diamond drilling.</p> <p>Implement <i>Environmental and Heritage Resources Protection Plan</i>.</p>	None predicted	Ongoing from the commencement of Construction until Closure	In accordance with NIRB Screening Decision Report, Land Use Licence and Water Licence Terms and Conditions	In accordance with NIRB Screening Decision Report, Land Use Licence and Water Licence Terms and Conditions
Wildlife	<ul style="list-style-type: none"> • Camp construction and operation • Drilling • Mobilization, drill support, access and demobilization via fixed and rotary wing aircraft • Airborne surveys (exploration) • Ground surveys (exploration) 	Negative and Mitigable	Implement the <i>Wildlife Protection Plan Program</i> .	None predicted	Ongoing from the commencement of Construction until Closure	In accordance with the <i>Wildlife Mitigation and Monitoring Program</i>	In accordance with NIRB Screening Decision Report, Land Use Licence and Water Licence Terms and Conditions
SOCIO-ECONOMIC COMPONENTS							

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Archaeological and Historical Sites	<ul style="list-style-type: none"> • Camp construction • Drilling on land • Ground surveys (exploration) • Staking and prospecting 	Negative and Mitigable	<p>Conduct archaeological assessment prior to program commencement.</p> <p>Where possible, avoid interaction with known archaeological sites.</p> <p>Where not possible to avoid interaction with known archaeological sites, proceed with direction from the territorial Archaeologist.</p> <p>Implement <i>Environmental and Heritage Resources Protection Plan</i>.</p>	None predicted	Prior to Construction, and throughout Operations	As required, in consultation with the project archaeologist and the Territorial Archaeologist.	As required, in consultation with the project archaeologist and the Territorial Archaeologist.
Employment	<ul style="list-style-type: none"> • Camp construction, operation and decommissioning • Staging via regionally accessible airstrip and/or sealift • Staking and prospecting • Drilling • Mobilization, drill support, access and demobilization via fixed and rotary wing aircraft • Ground surveys (exploration) • Environmental baseline studies 	Positive	Utilize local personnel and business wherever possible.	Positive: economic benefits for Kitikmeot residents and businesses employed, directly or indirectly, by the Project.	Ongoing from the commencement of Construction until Closure	In accordance with NIRB Screening Decision Report.	In accordance with NIRB Screening Decision Report.