

Table 7 The high inherent climate change related risks on our climate change risk register and key control measures

Risk	Site affected	Description	Inherent Risk Rating	Key control measures	Residual risk rating	Planned action
Groundwater scarcity	Australia	Decreased average total annual rainfall causes drier surface conditions and underground aquifers to be replenished slowly.		<ul> <li>Third party reviews of usage and aquifer health</li> <li>Recycled water use with underground and processing.</li> <li>Decant water from tailings facilities for reuse in all our operating process plants.</li> <li>Thickener installed in Jundee</li> </ul>		Proposed thickener installation at KCGM during potential Fimiston expansion
Flooding	Australia and Alaska	In Western Australia, rainfall is becoming more concentrated and cyclones more severe; in Alaska, total rainfall is increasing and permafrost melting off-site, both pointing to an increase in the frequency and severity		<ul> <li>Surface water management infrastructure installed at all sites (e.g. diversion ditches, bunds).</li> <li>Water level monitoring at surface water structures.</li> <li>Severe Weather and Cyclone Management Plans in place.</li> <li>Scenario analysis completed as per TCFD recommendations</li> </ul>		Review and audit of site specific risk exposure.  Flood mitigation infrastructure review.
Extreme temperature changes	Australia and Alaska	Increase in the frequency of extreme temperature days (both hot and cold) can cause worker health issues and impact production		<ul> <li>Working in Adverse Temperature/ Occupational Health &amp; Safety procedures and guideline.</li> <li>Daily hydration testing undertaken at Australian operations.</li> </ul>		Increase live monitoring capability of personnel and envi- ronmental conditions
Shareholder divestment & activism	Australia and Alaska	Shareholders may change their investment decisions for not demonstrating action on climate change generally.		<ul> <li>Climate Change         Policy aligned to Paris         Agreement Net Zero         ambitions.</li> <li>2030 emissions         reduction target.</li> <li>Annual ESG         roadshows with         key Company         representatives to         discuss ESG related         matters.</li> </ul>		Full adoption of TCFD recommendations.  Auditing and verification of sustainability data.

## Northern Star Resources Limited Climate Change Risks & Opportunities (Extract from CY2021 Annual Sustainability Report)



Table 8 Risk Rating

Risk Rating	Priority	Description			
High	1	<ul> <li>High inherent risks are generally considered unacceptable</li> <li>The implementation of mitigating strategies to be actively pursued</li> <li>Notification to, and approval to conduct or continue activity required from, Executive management prior to commencement or continuation when first identified or assessed as high risk</li> <li>A risk owner is appointed to ensure mitigation strategies are pursued and progress reported at least quarterly to the Audit and Risk Committee</li> </ul>			
Medium	2	<ul> <li>Where appropriate, further risk mitigation strategies should be considered and applied as practicable.</li> <li>A risk owner is appointed to ensure that all aspects relating to the risk and its mitigation are managed</li> </ul>			
Low	3	<ul> <li>Where appropriate, further risk mitigation strategies should be considered as part of the process of continuous improvement</li> <li>A risk owner is appointed to ensure all aspects relating to the risk and its mitigation are managed</li> </ul>			

Table 9 Northern Star's Climate Related Opportunities

Table 5 Northern star 5 Similate Related Opportunities						
Climate Related Opportunities						
	Increase in gold demand					
Products and Services	Low emissions mining					
Products and Services	Diversification into low emissions technology commodities					
	Ethical gold certification					
	Carbon trading					
	Trade off excess renewable energy					
Energy source	Renewable Energy & Energy Efficiency Certificates					
Lifergy source	Energy price volatility resilience					
	Diversification of energy sources					
	Renewable backup generation					
	Lower input tailings treatment					
	Reducing water consumption					
Resource efficiency	Increased operating efficiency					
,	Electrification of operations					
	Track climate performance					
	Daily hydration testing undertaken at Australian operations.					
	Improve social licence to operate					
	Improved employee safety and satisfaction					
	Community resilience initiatives					
	Joint venture partnership collaborations					
	Reinforce assets to increase resilience to physical impacts					
<b>.</b>	Renewable energy to maintain power quality					
Resilience	Diversify operation locations					
	Diversify supply chain					
	Monitor and communicate weather conditions					
	Consider climate change in environmental management					
	Determine retreat thresholds					
	Emerging gold processing techniques					
	Action and disclosure to increase stakeholder confidence					
Markets	Action and disclosure to access to capital for adaptation					
IVIAIRELS	Incorporate climate change criteria in decision making					
	Favourable financing for green assets					