

MACKENZIE GREEN ENERGY CENTRE PROJECT ASSESSMENT REPORT

APPENDIX H

Summary of Cumulative Effects Assessment, Mitigation and Monitoring

Table 11-3 Summary of Cumulative Effects Assessment, Mitigation and Monitoring for the MGEC Project

Issue/VEC	Residual Impact Assessment Indicators						
	Geographic Extent	Direction	Magnitude	Duration & Frequency	Reversibility	Significance	Confidence
AIR QUALITY PROJECT emissions							
Nitrogen Dioxide	Sub-Regional	Negative	Low	Long-term; Continuous	Reversible	Not significant	Good
Sulphur Dioxide	Sub-Regional	Neutral	Low	Long-term; Continuous	Reversible	Not significant	Good
Carbon Monoxide	Sub-Regional	Negative	Low	Long-term; Continuous	Reversible	Not significant	Good
Particulate Matter (PM ₁₀ & PM _{2.5})	Sub-Regional	Positive	Low	Long-term; Continuous	Reversible	Not significant	Good
AIR QUALITY Regional beehive burner emissions							
Nitrogen Dioxide	Regional	Positive	Medium	Long-term; Intermittent	Reversible	Significant*	Fair
Sulphur Dioxide	Regional	Positive	Medium	Long-term; Intermittent	Reversible	Significant	Fair
Carbon Monoxide	Regional	Positive	Medium	Long-term; Intermittent	Reversible	Significant	Fair
Particulate Matter (PM ₁₀ & PM _{2.5})	Regional	Positive	Medium	Long-term; Intermittent	Reversible	Significant	Fair
GREENHOUSE GAS Emissions	Provincial-Global	Positive	Low-Medium	Long-term; Continuous	Reversible	Not significant	Good
NOISE							
Operating Noise	Local	Negative	Low	Long-term; Continuous	Reversible	Not significant	Good
WILDLIFE & VEGETATION							
Construction & operation	Local	Negative to Neutral	Minimal	Long-term; Continuous	Reversible	Not significant	Fair

* Applies to the benefit of reduced exposure to air pollutants.