

MACKENZIE GREEN ENERGY CENTRE PROJECT ASSESSMENT REPORT

APPENDIX G

Summary of Assessment, Mitigation and Monitoring for the MGEC Project

Table 8- 1 Summary of Assessment, Mitigation and Monitoring for the Project

Issue/VEC	Residual Impact Assessment Indicators							Supplemental Mitigation Planned*	Monitoring Proposed
	Geographic Extent	Direction	Magnitude	Duration & Frequency	Reversibility	Significance	Confidence		
AIR QUALITY Nitrogen Dioxide Sulphur Dioxide Carbon Monoxide Particulate Matter (PM ₁₀ & PM _{2.5})	Sub-Regional Sub-Regional Sub-Regional Sub-Regional	Negative Neutral Negative Positive	Low Low Low Low	Long-term; Continuous Long-term; Continuous Long-term; Continuous Long-term; Continuous	Reversible Reversible Reversible Reversible	Not significant Not significant Not significant Not significant	Good Good Good Good	None None None None	Continuous emission monitoring will be conducted for NOx, in-stack opacity and flow rate. Annual stack emission monitoring will be conducted for PM, NOx and flow rate.
Visibility Fog & Ice from cooling tower water vapour	Sub-Regional	Negative-Neutral	Low	Long-term; Seasonal	Reversible	Not significant	Good	None	None
NOISE Construction Traffic Noise Operating Noise	Local Local Local	Negative Negative Negative	Moderate Minimal Low	Medium-term; Intermittent Long-term; Intermittent Long-term; Continuous	Reversible Reversible Reversible	Not significant Not significant Not significant	Good Fair Good	Will respond to mitigate noise complaints.	None None None
GREENHOUSE GAS Emissions	Provincial-Global	Positive	Low-Medium	Long-term; Continuous	Reversible	Significant	Good	None	Greenhouse gas emissions will be reported to Statistics Canada, as required.
PROCESS WASTEWATER & RECEIVING WATER QUALITY	Local	Negative-neutral	Nil	Long-term; Continuous	Reversible	Not significant	Good	None	Responsibility for monitoring will be retained by Pope & Talbot under its effluent permit.
STORM WATER RUNOFF QUALITY	Local	Neutral	Low	Long-term; Intermittent	Irreversible	Not significant	Good	None	Conduct baseline monitoring at north end of wetland prior to start of construction. Continue monitoring TSS and oil & grease during construction.
LEACHATE RUNOFF & RECEIVING WATER QUALITY	Local	Neutral to Negative	Low	Long-term; Continuous	Reversible	Not significant	Fair to Good	Optimize treatment if required to meet permit criteria	<ul style="list-style-type: none"> •Conduct seasonal baseline monitoring study for sewage effluent, ash pond effluent and wetland prior to start-up. •During operation, Pope & Talbot will monitor BOD₅, TSS, toxicity (rainbow trout) and flow rate at the discharge from the Pope & Talbot ash pond.
GROUNDWATER QUALITY	Local	Positive	Low	Long-term; Continuous	Reversible	Not significant	Fair to Good	None	Monitor 2 wells on perimeter of wood storage area and wells on each of four sides of the wood ash landfill for specific contaminants.
WATER SUPPLY	Local	Neutral	Nil	Long-term; Continuous	Reversible	Not significant	Excellent	None	In accordance with Pope & Talbot's water licence
AQUATIC RESOURCES	Local	Neutral	Nil-Low	Long-term; Continuous	Reversible	Not significant	Good		As per Storm Water Runoff Quality VEC.
WILDLIFE & VEGETATION Construction & operation	Local	Negative	Minimal-Low	Long-term; Continuous	Reversible	Not Significant	Good	None	Conduct field assessment prior to clearing to confirm presence/absence of new species. Conduct site inspections during construction. Monitor reports of truck collisions with large animals.
Wood residue truck traffic (wildlife)	Regional	Negative	Low	Long-term; Continuous	Reversible	Not significant	Good	None	

Issue/VEC	Residual Impact Assessment Indicators							Supplemental Mitigation Planned*	Monitoring Proposed
	Geographic Extent	Direction	Magnitude	Duration & Frequency	Reversibility	Significance	Confidence		
SOILS	Local	Neutral	Minimal to Nil	Long-term; Continuous	Reversible	Not significant	Good	None	None
ARCHAEOLOGY	Local	Neutral	Nil	Permanent	Irreversible	Not significant	Good	If archaeological resources found.	If archaeological resources found.
WASTE MANAGEMENT	Local	Negative	Low	Long-term; Continuous	Irreversible	Not significant	Good		See Groundwater VEC for monitoring of ash landfill.
LAND USE	Local	Neutral	Moderate	Long-term; Continuous	Reversible	Not Significant	Good	None	None

- Supplemental to the mitigation committed to in the appropriate section of the Application, on which the impact assessment is based.\