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5.0 Residual Effects

The Registration document has presented an assessment of the environmental effects of the proposed Project on the biophysical and socio-economic environments. Valued Components (VCs) were identified using guidance from NL DECC and based on the Project description developed for this Registration. A set of Key Indicators (KIs) were identified for each VC, and information was collected by assembling material available from Government and other agencies. Where gaps were identified, a program of field data collection was carried out using standard accepted practices.

Table 5.0-1 lists the VCs, the associated KIs, and the conclusion of the effects assessment. Note, that in some cases, a KI was not assessed due to an absence of any potential interaction. For example, the review of Historic Resources revealed that no Paleontological Resources or Burial, Cultural, and Heritage Sites were present in the Project Area, hence the lack of any potential interaction resulted in the exclusion of these KIs from the effects assessment. In one other case, there was an overlap between KIs. The Land and Resource Use VC included the KI “Protected, Special and Sensitive Areas”. Under the Terrestrial VC, a similar KI was identified as “Areas of Conservation Concern”. The effects assessment of these two KIs was carried out once and was presented under the Land and Resource Use VC.

Residual effects are those adverse environmental effects which cannot be avoided or mitigated, or that remain after the application of environmental control technologies and best management practices. Detailed mitigations are presented in Appendix W. In several cases, the indicated mitigation measures will be essential to the reduction of potential negative environmental effects; hence, an associated monitoring effort will be employed to confirm predictions and support a continuous improvement approach to environmental management. This requirement and commitment are especially applicable to interactions with Species at Risk.

This Registration presents information about the proposed Project and describes the existing biophysical and socio-economic environment to a level of detail that enabled a thorough assessment of environmental effects. Therefore, Argentia Renewables is confident in stating that the overall conclusion of its assessment is that there will be no significant residual adverse environmental effects from the Project.

Table 5.0-1 Index of Effects Assessment Conclusions by Valued Components and Key Indicators.

Valued Component	Key Indicator	Residual Effect
Atmospheric Environment	Greenhouse Gas (GHG) Emissions	Not Significant
	Air Quality	Not Significant
	Light	Not Significant
	Sound Quality (Noise)	Not Significant
	Vibration	Not Significant
Aquatic Environment	Surface Water Resources	Not Significant
	Ground Water Resources	Not Significant
	Freshwater Environment (Fish and Fish Habitat)	Not Significant
	Marine Environment (Fish and Fish Habitat)	Not Significant
	Fisheries and Aquaculture	Not Significant
	Species at Risk	Not Significant
	Habitats of Conservation Concern	Not Significant
	Marine Biosecurity	Not Significant
Terrestrial Environment	Flora	Not Significant
	Wetlands	Not Significant
	Fauna (Mammals)	Not Significant
	Avifauna	Not Significant
	Species at Risk	Not Significant
	Habitats of Conservation Concern[1]	Not Significant[1]
Land and Resource Use	Zoning	Not Significant
	Commercial and Industrial Resource Use	Not Significant (Positive)
	Recreational and Subsistence Resource Use	Not Significant
	Protected, Special and Sensitive Areas	Not Significant
	Indigenous Land Use	N/A
Heritage and Cultural Resources	Historic and Archaeological Resources	Not Significant
	Paleontological Resources	N/A
	Architectural Resources	Not Significant
	Burial, Cultural, and Heritage Sites	N/A
Socio-Economic Environment	Population Demographics	Not Significant (Positive)
	Community Health and Wellbeing	Not Significant
	Infrastructure and Services	Not Significant
	Economy	Not Significant (Positive)
	Employment	Not Significant (Positive)
	Business	Not Significant (Positive)
Human Health and Quality of Life	Air Quality[2]	Not Significant[2]
	Light[2]	Not Significant[2]
	Sound Quality (Noise)[2]	Not Significant[2]
	Vibration[2]	Not Significant[2]
	Shadow Flicker	Not Significant
	Ice Throw	Not Significant
	Recreational and Subsistence Resource Use[3]	Not Significant[3]
	Indigenous Land Use[3]	N/A[3]

NOTES
N/A = not applicable
[1]Assessed under Land and Resource Use – “Protected, Special and Sensitive Areas”
[2]Assessed under Atmospheric Environment.
[3]Assessed under Land and Resource Use.