

## **Appendix 8-3**

# Summary of Potential Operations and Maintenance Effects on Aquatic Valued Components Prior to Mitigation

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Valued Component	Potential Effect	Potential Operations and Maintenance Effects Before Mitigation					Level of Potential Effect <sup>1</sup>
		Extent		Frequency	Reversibility	Ecological Context	
		Magnitude/Geographic Extent	Duration				
Fish Habitat, Fish and Harvested Fish, and Aquatic Species At Risk	Temporary disturbance of instream habitat.	No measureable effect above baseline.	Short-term activities such as the time required to complete a discrete component.	Occurs at sporadic or intermittent intervals.	Readily reversible over a short period of time.	No adverse ecosystem effects.	Low
		Level I	Level I	Level II	Level I	Level I	
	Temporary localized release/transport of sediment and/or woody debris.	Measurable effect marginally beyond established thresholds of acceptable change.	Short-term activities such as the time required to complete a discrete component.	Occurs at sporadic or intermittent intervals.	Readily reversible over a short period of time.	No adverse ecosystem effects.	Low
		Level II	Level I	Level II	Level I	Level I	
	Temporary localized release/transport of deleterious substances to the watercourse.	Measurable effect marginally beyond established thresholds of acceptable change.	Short-term activities such as the time required to complete a discrete component.	Occurs at sporadic or intermittent intervals.	Readily reversible over a short period of time.	No adverse ecosystem effects.	Low
		Level II	Level I	Level II	Level I	Level I	
	Improved access to sensitive habitats.	No measureable effect above baseline.	Timeframe of greater than 10 years.	Occurs at sporadic or intermittent intervals.	Project-specific effects are permanent.	No adverse ecosystem effects.	Low
		Level I	Level III	Level II	Level III	Level I	
	Increased fishing opportunities at watercourse crossings along the all-season road alignment.	No measureable effect above baseline.	Timeframe of greater than 10 years.	Occurs at sporadic or intermittent intervals.	Project-specific effects are permanent.	No adverse ecosystem effects.	Low
		Level I	Level III	Level II	Level III	Level I	

Valued Component	Potential Effect	Potential Operations and Maintenance Effects Before Mitigation					Level of Potential Effect <sup>1</sup>
		Extent		Frequency	Reversibility	Ecological Context	
		Magnitude/Geographic Extent	Duration				
	Improved access may result in the introduction of aquatic invasive species.	Measurable effect marginally beyond established thresholds of acceptable change.	Timeframe of greater than 10 years.	Occurs at sporadic or intermittent intervals.	Potential effect is potentially reversible but over a long period of time.	No adverse ecosystem effects.	Low
		Level II	Level III	Level II	Level II	Level I	

Note: 1 The level of potential effect was ranked as being 'low', 'moderate' or 'high' based on the extent, frequency, reversibility and ecological context of the potential effect prior to the implementation of mitigation measures, and the probability of the occurrence of the predicted effect. A predicted effect was considered to be 'low' if there is a low probability of occurrence, 'moderate' if it has a moderate probability of occurrence, and 'high' if there is a high probability of occurrence.