

Appendix 8-2

Summary of Potential Construction Effects on Aquatic Valued Components Prior to Mitigation



Appendix 8-2: Summary of Potential Construction Effects on Aquatic Valued Components Prior to Mitigation

		Potential Construction Effects Before Mitigation					
Valued Component	Potential Effect	Exten Magnitude/Geographic Extent	t Duration	Frequency	Reversibility	Ecological Context	Level of Potential Effect ¹
Fish Habitat, Fish and Harvested Fish, and Aquatic	Changes in flows, flow patterns, or flooding.	Measurable effect marginally beyond established thresholds of acceptable change.	Timeframe of greater than 10 years.	Occurs once over the duration of the disturbance.	Project-specific effects are permanent.	No adverse ecosystem effects.	Moderate
Species At Risk		Level II	Level III	Level I	Level III	Level I	
	Erosion and sedimentation of streams.	Measurable effect marginally beyond established thresholds of acceptable change.	The potential effect is likely to persist until the completion of construction and rehabilitation activities.	Occurs at sporadic or intermittent intervals.	Readily reversible over a short period of time.	No adverse ecosystem effects.	Moderate
		Level II	Level II	Level II	Level I	Level I	
	Loss of instream habitat.	Measurable effect marginally beyond established thresholds of acceptable change.	Timeframe of greater than 10 years.	Occurs once over the duration of the disturbance.	Project-specific effects are permanent.	No adverse ecosystem effects.	Moderate
		Level II	Level III	Level I	Level III	Level I	
	Loss of riparian vegetation.	Measurable effect marginally beyond established thresholds of acceptable change.	Timeframe of greater than 10 years.	Occurs once over the duration of the disturbance.	Project-specific effects are permanent.	No adverse ecosystem effects.	Moderate
		Level II	Level III	Level I	Level III	Level I	
	Introduction of deleterious substances.	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.	Potential effect is potentially reversible but over a long period of time.	No adverse ecosystem effects.	Low
		Level II	Level I	Level II	Level II	Level I	

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	Potential Effect	Potential Construction Effects Before Mitigation					1 1 . 6
Valued Component		Exten Magnitude/Geographic Extent	t Duration	Frequency	Reversibility	Ecological Context	Level of Potential Effect ¹
	Disruption of habitat due to blasting.	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.	Potential effect is potentially reversible but over a long period of time.	No adverse ecosystem effects.	Low
	Temporary crossings.	Level II Measurable effect marginally beyond established thresholds of acceptable change.	Short-term activities such as the time required to complete a discrete component.	Level II Occurs at sporadic or intermittent intervals.	Readily reversible over a short period of time.	No adverse ecosystem effects.	Low
		Level II	Level1	Level II	Level I	Level I	
	Improved access to sensitive habitats.	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	LevelI	Level II	Level I	Level I	
	Improved access to fishing opportunities at watercourse crossings.	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	LevelI	Level I	

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		Potential Effect	Potential Construction Effects Before Mitigation					
	Valued Component		Extent				Factorical	Level of Potential
			Magnitude/Geographic Extent	Duration	Frequency	Reversibility	Ecological Context	Effect ¹
		Introduction of aquatic invasive species.	No measureable effect above baseline.	Short-term activities such as the time required to complete a discrete component.	Occurs at sporadic or intermittent intervals.	Potential effect is potentially reversible but over a long period of time.	No adverse ecosystem effects.	Low
			Level I	Level I	Level II	Level II	Level I	

Note: 1 The level of the 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.

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