## APPENDIX D: RISK ASSESSMENT CRITERIA

Both the criteria used to assess the impacts and the method of determining the significance of the impacts is outlined below. This method complies with the method provided in the EIA guideline document. Part A provides the approach for determining impact consequence (combining intensity, extent and duration). Impact consequence and significance are determined from Part B and C. The consequence rating is considered together with the probability of occurrence in order to determine the overall significance of each impact. The interpretation of the impact significance is given in Part D. The significance of the impact can be related to the level of risk associated with a specific issue.

## **IMPACT ASSESSMENT METHODOLOGY**

PART A: DEFINITIONS A	ND CRITERI	A*					
Definition of SIGNIFICAN	ICE	Significance = consequence x probability					
Definition of CONSEQUE	NCE	Consequence is a function of intensity, spatial extent and duration					
Criteria for ranking of	VH	Severe change, disturbance or degradation. Associated with severe consequences. May result					
the INTENSITY of		in severe illness, injury or death. Targets, limits and thresholds of concern continually					
environmental		exceeded. Substantial intervention will be required. Vigorous/widespread community					
impacts		mobilization against project can be expected. May result in legal action if impact occurs.					
	Н	Prominent change, disturbance or degradation. Associated with real and substantial					
		consequences. May result in illness or injury. Targets, limits and thresholds of concern					
		regularly exceeded. Will definitely require intervention. Threats of community action. Regular					
		complaints can be expected when the impact takes place.					
	M	Moderate change, disturbance or discomfort. Associated with real but not substantial					
		consequences. Targets, limits and thresholds of concern may occasionally be exceeded. Likely					
		to require some intervention. Occasional complaints can be expected.					
	L	Minor (Slight) change, disturbance or nuisance. Associated with minor consequences or					
		deterioration. Targets, limits and thresholds of concern rarely exceeded. Require only minor					
		interventions or clean-up actions. Sporadic complaints could be expected.					
	VL	Negligible change, disturbance or nuisance. Associated with very minor consequences or					
		deterioration. Targets, limits and thresholds of concern never exceeded. No interventions or					
		clean-up actions required. No complaints anticipated.					
	VL+	Negligible change or improvement. Almost no benefits. Change not measurable/will remain in					
		the current range.					
	L+	Minor change or improvement. Minor benefits. Change not measurable/will remain in the					
		current range. Few people will experience benefits.					
	M+	Moderate change or improvement. Real but not substantial benefits. Will be within or					
		marginally better than the current conditions. Small number of people will experience					
		benefits.					
	H+	Prominent change or improvement. Real and substantial benefits. Will be better than current					
		conditions. Many people will experience benefits. General community support.					
	VH+	Substantial, large-scale change or improvement. Considerable and widespread benefit. Will be					
		much better than the current conditions. Favourable publicity and/or widespread support					
		expected.					
Criteria for ranking the	VL	Very short, always less than a year. Quickly reversible					
DURATION of impacts	L	Short-term, occurs for more than 1 but less than 5 years. Reversible over time.					
	M	Medium-term, 5 to 10 years.					
	Н	Long term, between 10 and 20 years. (Likely to cease at the end of the operational life of the					
		activity)					
	VH	Very long, permanent, +20 years (Irreversible. Beyond closure)					
Criteria for ranking the	VL	A part of the site/property.					
EXTENT of impacts	L	Whole site.					
	M	Beyond the site boundary, affecting immediate neighbours					
	Н	Local area, extending far beyond site boundary.					
	VH	Regional/National					

PART B: DETERMINING CONSEQUENCE								
			INT	ENSITY = VL				
	Very long	VH	Low	Low	Medium	Medium		
DURATION	Long term	Н	Low	Low	Low	Medium	Medium	
	Medium term	M	Very Low	Low	Low	Low	Medium	



Short term	L	Very low	Very Low	Low	Low	Low
Very short	VL	Very low	Very Low	Very Low	Low	Low



			INT	ENSITY = L			
	Very long	VH	Medium	Medium	Medium	High	High
DURATION	Long term	Н	Low	Medium	Medium	Medium	
	Medium term	M	Low	Low	Medium	Medium	Medium
	Short term	L	Low	Low	Low	Medium	Medium
	Very short	VL	Very low	Low	Low	Low	Medium
			INTI	ENSITY = M			
	Very long	VH	Medium				
	Long term	Н	Medium	Medium	Medium		
DURATION	Medium term	M	Medium	Medium	Medium		
	Short term	L	Low	Medium	Medium	Medium	
	Very short	VL	Low	Low	Low	Medium	Medium
			INT	ENSITY = H			
	Very long	VH	High				
	Long term	Н	Medium				
DURATION	Medium term	M	Medium	Medium	High		
	Short term	L	Medium	Medium	Medium		
	Very short	VL	Low	Medium	Medium	Medium	
			INTE	NSITY = VH			
	Very long	VH	High				
	Long term	Н	High				
DURATION	Medium term	M	Medium				
	Short term	L	Medium	Medium	High		
	Very short	VL	Low	Medium	Medium		
			VL	L	M	Н	VH
			A part of the	Whole site	Beyond the	Extending far	Regional/
			site/ property		site, affecting	beyond site	National
					neighbours	but localised	
					EXTENT		

PROBABILITY	Definite/	VH	Very Low	Low	Medium		
(of exposure to	Continuous						
impacts)	Probable	Н	Very Low	Low	Medium		
	Possible/ frequent	М	Very Low	Very Low	Low	Medium	
	Conceivable	L	Insignificant	Very Low	Low	Medium	
	Unlikely/ improbable	VL	Insignificant	Insignificant	Very Low	Low	Medium
			VL	L	M	Н	VVH
					CONSEQUENCE		•

PART D: INTERPRETATION OF SIGNIFICANCE					
Significance	Decision guideline				
Very High	Potential fatal flaw unless mitigated to lower significance.				
High	It must have an influence on the decision. Substantial mitigation will be required.				
Medium	It should have an influence on the decision. Mitigation will be required.				
Low	Unlikely that it will have a real influence on the decision. Limited mitigation is likely required.				
Very Low	It will not have an influence on the decision. Does not require any mitigation				
Insignificant	Inconsequential, not requiring any consideration.				

<sup>\*</sup>VH = very high, H = high, M= medium, L= low and VL= very low and + denotes a positive impact.