APPENDIX G - IMPACTS TABLES

(PROPOSED REFURBISHMENT AND CONSTRUCTION OF COASTAL INFRASTRUCTURE WITHIN THE KING SABATA DALINDYEBO LOCAL MUNICIPALITY, HOLE IN THE WALL, EASTERN CAPE)

Issues and potential impacts of the project on the environment (and vice versa) were identified by way of field investigations, desktop studies and interaction with I&APs. Key issues and impacts requiring further investigation were addressed by specialist studies (Appendix D) and/or further detailed input from the environmental and technical teams. Specialist studies were guided by the Terms of Reference to ensure that to ensure that issues and associated impacts were correctly identified, understood and addressed, thereby enabling an integrated assessment of the development proposal.

Mitigation measures were identified with inputs from the specialists, the design engineers and the EAP team. Information was collated, evaluated and integrated. Thereafter, the significance of each impact was assessed using the assessment conventions outlined below. It should be noted that the significance of an impact is a function of all the attributes outlined below, and the relationships between them. The assessment conventions are applied qualitatively by the EAP, based on an understanding of the receiving environment, the proposed project components and activities, and the information gathered from different sources, including specialists, available literature and the public.

Conventions applied to the impact assessment

Criteria	Rating Scales	Definition						
Nature	Positive	This is an evaluation of the overall impact of the construction,						
	Negative	operation and management that the proposed upgrade and						
	Neutral	construction of coastal infrastructure would have on the						
		affected environment (social, biophysical and economic)						
Spatial extent	Low	Site-specific, affects only the development footprint						
	Medium	Local (< 2 km from site)						
	High	Regional (within 30 km of site) to national						
Duration	Very low	Temporary (less than 1 year)						
	Low	Short term (1-4 years, i.e. duration of construction phase)						
	Medium	Medium term (5-10 years)						
	High	Long term (impact will only cease after the operational life of						
		the activity) to permanent						
Intensity	Low	Negligible alteration of natural systems, patterns or						
		processes						
	Medium	Noticeable alteration of natural systems, patterns or						
		processes						
	High	Severe alteration of natural systems, patterns or processes						
Irreplaceability of resource	Low	No irreplaceable resources will be impacted (the affected						
caused by impacts		resource is easy to replace/rehabilitate)						
	Medium	Resources that will be impacted can be replaced, with effort						
	High	Project will destroy unique resources that cannot be replaced						
Reversibility of impacts	Low	Low reversibility to non-reversible						
	Medium	Moderate reversibility of impacts						
	High	High reversibility of impacts						
Consequence	Low	A combination of any of the following:						
(a combination of spatial		- Intensity, duration, extent and impact on irreplaceable						
extent, duration, intensity		resources are all rated low						
and irreplaceability of	and irreplaceability of - Intensity is low and up to two of the other criteria							
impact on resources).		medium						

Criteria	Rating Scales	Definition						
		- Intensity is medium and all three other criteria are rated low						
	Medium	Intensity is medium and at least two of the other criteria are						
		rated medium						
	High	Intensity and impact on irreplaceable resources are rated						
		high, with any combination of extent and duration						
		Intensity is rated high, with all of the other criteria being rated						
		medium or high						
Probability (the likelihood of	Low	It is highly unlikely or there is a less than 50% chance that an						
the impact occurring)		impact will occur						
	Medium	It is between 50 and 75% certain that the impact will occur						
	High	It is more than 75% certain that the impact will occur or it is						
		definite that the impact will occur						
Significance	Low	Low consequence and low probability						
(all impacts including		Low consequence and medium probability						
potential cumulative		Low consequence and high probability						
impacts)	Medium	Medium consequence and low probability						
		Medium consequence and medium probability						
		Medium consequence and high probability						
		High consequence and low probability						
	High	High consequence and medium probability						
		High consequence and high probability						

Assessment of potential impacts resulting from the proposed refurbishment and construction of coastal infrastructure at Hole in the Wall, at a local, regional and national scale during planning, construction and operation with and without mitigation.

No.	Description and Nature of Impact	Mitigation	Nature (Positive, Negative, Neutral)	Spatial Extent (Low, Medium, High)	Duration (Very Low, Low, Medium, High)	(Low, Medium, High)	Irreplaceability (Low, Medium, High)	Reversibility (Low, Medium, High)	Consequence (Low, Medium, High)	Probability (Low, Medium, High)	Significance (Low, Medium, High)
DESIG	SN/PLANNING PHAS	E									
1	Visual impacts	Unmanaged	Negative	Low	High	Medium	Medium	High	Medium	Medium	Low
		Managed	Positive	Low	High	Low	Low	High	Low	Medium	Low
2	Impacts on the	Unmanaged	Negative	Low	Medium	Medium	High	High	Medium	High	Medium
	coastal and dune habitat	Managed	Positive	Low	Short	Low	Medium	Medium	Low	Medium	Low
3	ESA's and water	Unmanaged	Negative	Low	Medium	High	High	High	Medium	High	High
		Managed	Negative	Low	Short	Low	Medium	Medium	Low	Medium	Low
4	Impacts on	Unmanaged	Negative	Low	Medium	Low	N/A	High	Low	Medium	Low
	tourism and economic stimulation	Managed	Positive	Low	High	Low	N/A	High	Low	Low	Low
CONS	TRUCTION PHASE										
1	Impact on	Unmanaged	Negative	Medium	High	Low	Medium	Medium	Low	High	Low
	Terrestrial Critical Biodiversity Areas (CBA's)	Managed	Neutral	Medium	High	Low	Low	High	Low	High	Low
2	Impact on	Unmanaged	Negative	Low	High	Medium	Medium	Low	Medium	Medium	Low
	Terrestrial	Managed	Negative	Low	High	Low	Low	Medium	Low	Low	Low

No.	Description and Nature of Impact	Mitigation	Nature (Positive, Negative, Neutral)	Spatial Extent (Low, Medium, High)	Duration (Very Low, Low, Medium, High)	(Low, Medium, High)	Irreplaceability (Low, Medium, High)	Reversibility (Low, Medium, High)	Consequence (Low, Medium, High)	Probability (Low, Medium, High)	Significance (Low, Medium, High)
	Ecological Support Areas (ESA's)										
3	Impact on Aquatic	Unmanaged	Negative	Medium	High	Low	Medium	Medium	Low	High	Low
	Ecological Support Areas (ESA's)	Managed	Negative	Medium	High	Low	Low	High	Low	High	Low
4	Impact on	Unmanaged	Negative	Low	High	Low	Medium	Low	Low	High	Low
	strategic water source areas	Managed	Positive	Low	High	Low	Low	Medium	Low	High	Low
5	geomorphological	Unmanaged	Negative	Low	High	Medium	Low	Medium	High	High	Medium
		Managed	Positive	Low	High	Low	Low	High	Medium	High	Low
6	Disruption of the	Unmanaged	Negative	Low	High	Medium	Low	Medium	High	High	Medium
	sand sharing system (sediment transport)	Managed	Positive	Low	High	Low	Low	High	Medium	High	Low
7	Disturbance of the	Unmanaged	Negative	Low	High	Low	Medium	Medium	High	High	Medium
	prevalent coastal habitat	Managed	Negative	Low	High	Low	Low	High	Medium	High	Low
8	Impact cultural heritage resources	Unmanaged	Not anticipated	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		Managed	Not anticipated	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

No.	Description and Nature of Impact	Mitigation	Nature (Positive, Negative, Neutral)	Spatial Extent (Low, Medium, High)	Duration (Very Low, Low, Medium, High)	(Low, Medium, High)	Irreplaceability (Low, Medium, High)	Reversibility (Low, Medium, High)	Consequence (Low, Medium, High)	Probability (Low, Medium, High)	Significance (Low, Medium, High)
9	Increased noise	Unmanaged	Negative	Low	Low	Low	Low	High	Low	Medium	Medium-low
	levels	Managed	Negative	Low	Very low	Low	Low	High	Low	Low	low
10	Increased dust	Unmanaged	Negative	Low	Low	Low	Low	High	Low	Low	Low
	emissions	Managed	Negative	Low	Low	Low	Low	High	Low	Low	Low
11	Increased crime	Unmanaged	Negative	Low	Low	Low	N/A	Medium	Low	Low	Low
	and criminal activity	Managed	Negative	Low	Low	Low	N/A	High	Low	Low	Low
12	existing	Unmanaged	Negative	Low	Low	Low	Low	High	Low	Medium	Low
		Managed	Positive	Low	Low	Low	Low	High	Low	Low	Low
OPER	RATIONAL PHASE										
1	Impact on Critical	Unmanaged	Negative	Low	High	Medium	High	Medium	Medium	Medium	Medium
	Biodiversity Areas (CBA's)	Managed	Positive	Low	High	Low	Medium	High	Low	Low	Low
2	Impact on	Unmanaged	Negative	Low	High	Medium	High	Medium	Medium	Medium	Medium
	Ecological Support Areas (ESA's)	Managed	Positive	Low	High	Low	Medium	High	Low	Low	Low
3	Impact on	Unmanaged	Negative	Low	High	Medium	High	Medium	Medium	Medium	Medium
	strategic water source areas	Managed	Positive	Low	High	Low	Medium	High	Low	Low	Low
4		Unmanaged	Negative	Low	High	Medium	High	Medium	Medium	Medium	Medium

No.	Description and Nature of Impact	Mitigation	Nature (Positive, Negative, Neutral)	Spatial Extent (Low, Medium, High)	Duration (Very Low, Low, Medium, High)	(Low, Medium, High)	Irreplaceability (Low, Medium, High)	Reversibility (Low, Medium, High)	Consequence (Low, Medium, High)	Probability (Low, Medium, High)	Significance (Low, Medium, High)
	Impact on coastal areas and resources	Managed	Positive	Low	High	Low	Medium	High	Low	Low	Low
5	Impacts associated with wastewater, surface water and runoff Unmanage Managed	Unmanaged	Negative	Medium	High	Medium	High	Medium	Medium	Medium	Medium
		Managed	Positive	Low	High	Low	Medium	Medium	Low	Low	Low
6	Impact associated	Unmanaged	Negative	Low	High	Medium	N/A	Medium	Medium	Medium	Medium
	with solid waste	Managed	Positive	Low	High	Low	N/A	High	Low	Low	Low
7	Impact on the socio-economic environment	Unmanaged	Negative	Medium	High	Medium	N/A	N/A	Low	Low	Low
		Managed	Positive	High	High	Medium	N/A	N/A	Medium	Medium	High

DECOMMISSIONING PHASE

Not Applicable - It is unlikely that the proposed refurbishment and construction of the coastal infrastructure at Hole in the Wall will be decommissioned. If decommissioning does take place, the developer must abide by the relevant environmental regulations at the time of decommissioning.

Assessment of cumulative impacts on the receiving environment resulting from the proposed refurbishment and construction of coastal infrastructure at Hole in the Wall, at a local, regional and national scale, during planning, construction and operation with and without mitigation.

No.	Description and Nature of Impact	Mitigation ACROSS ALL PH	Nature (Positive, Negative, Neutral)	Spatial Extent (Low, Medium, High)	Duration (Very Low, Low, Medium, High)	(Low, Medium, High)	Irreplaceability (Low, Medium, High)	Reversibility (Low, Medium, High)	Consequence (Low, Medium, High)	Probability (Low, Medium, High)	Significance (Low, Medium, High)
1	Impacts on CBA's, ESA's and fauna	Yes, as outlined in the EMPr	Positive	Medium	High	Low	Medium	High	Medium	Medium	Low
2	Impacts on Coastal and dune conditions	Yes, as outlined in the EMPr	Positive	Medium	High	Low	Medium	High	Medium	Medium	Low
3	Impacts on water resources	Yes, as outlined in the EMPr	Positive	Medium	High	Low	Medium	High	Medium	Medium	Low
4	Socio-economic impacts	Yes, as outlined in the EMPr	Positive	Medium	High	Low	N/A	N/A	Low	Medium	High

Assessment of potential impacts on the No-go alternative at Hole in the Wall

No.	Description and Nature of Impact	Mitigation	Nature (Positive, Negative, Neutral)	Spatial Extent (Low, Medium, High)	Duration (Very Low, Low, Medium, High)	(Low, Medium, High)	Irreplaceability (Low, Medium, High)	Reversibility (Low, Medium, High)	Consequence (Low, Medium, High)	Probability (Low, Medium, High)	Significance (Low, Medium, High)
NO DE	NO DEVELOPMENT ALTERNATIVE										
1	Biophysical impacts	Not applicable	Negative	Medium	High	High	High	Low	Medium	High	High
2	Socio-economic impacts	Not applicable	Negative	Medium	High	Medium	N/A	N/A	High	High	High