

Assessment of a visitor's science centre on Eri 431

ENVIRONMENTAL RATING SIGNIFICANCE KEY				Number	Aspect	Nature of Impact	Without Mitigation (Baseline)				Without Mitigation Score (Baseline)	With Mitigation				With Mitigation Score (Impact Assessment)	Short Description of some Mitigation Measures / Enhancement Measures		
SIGNIFICANCE	RATING	Final rating score / value range		Probability (Likelihood)	Extent	Duration (frequency)	Magnitude (Intensity/ Severity)	Receiving Environment (Consequence)		Probability (Likelihood)	Extent	Duration (Frequency)	Magnitude (Intensity/ Severity)	Receiving Environment (Consequence)					
<b>CONSTRUCTION PHASE</b>																			
Negative Impacts	Very Significant	Very High	>11 to >16	1	Groundwater	Pollution	0	0	0	0	0	0	0	0	0	0	0		
	Significant	High	>7 to >11	2	Waste	Pollution caused by improper disposal of sewage	-4	-1	-3	-2	-2	-3	-1	-1	-3	-1	-1	-2	
	Increasing Significance	Medium	>4 to >7	3		Littering and pollution	-6	-1	-3	-5	-3	-4	-2	-1	-3	-1	-1	-2	
	Insignificant	Very Low	-1 to <-2	4	Biodiversity	Clearance of indigenous vegetation	-7	-3	-2	-4	-3	-4	-7	-1	-2	-1	-1	-1	-2
Significant	High	10 to 16	5	Protected & endangered plant species: Potential impact on threatened or protected		0	0	0	0	0	0	0	0	0	0	0	0		
Increasing Significance	Medium	4 to <10	6	Conservation priority: Potential impact on protected areas, CEMs, ESHs or Corridors of Endemism		-7	-4	-2	-4	-3	-4	-5	-3	-2	-1	-2	-3		
Insignificant	Low	1 to <4	7	Connectivity: Potential loss of ecological/migration corridors		-4	-3	-2	-4	-3	-4	-2	-2	-1	-2	-2	-2		
Significant	High	10 to 16	8	Encroachment of alien invasive vegetation in disturbed areas due to construction activities		-4	-3	-2	-2	-3	-3	-2	-2	-1	-1	-1	-2		
Increasing Significance	Medium	4 to <10	9	Veld fire risk: Potential risk of veld fires as a result of construction workers trying to warm themselves		-5	-6	-4	-5	-5	-5	-2	-2	-1	-1	-3	-2		
Insignificant	Low	1 to <4	10	Cumulative impacts: Cumulative impact associated with proposed activity		-2	-1	-1	-1	-1	-2	-1	-1	-1	-1	-1	-1		
Significant	High	10 to 16	11	The 'No-Go' option: Potential impact associated with the No-Go alternative		0	0	0	0	0	0	0	0	0	0	0	0		
<b>OPERATIONAL PHASE</b>																			
Positive Impacts	Significant	High	10 to 16	12	Services		-7	-3	-3	-3	-3	-4	0	0	0	0	0		
	Increasing Significance	Medium	4 to <10	13	Impact on Cultural, Archaeological, Palaeontological, and Heritage	Artifacts may be discovered and/or damaged during the construction phase	-2	-3	-2	-3	-3	-3	-2	-2	-1	-1	-1	-2	
	Insignificant	Low	1 to <4	14		Loss and/or damage to potential fossils and archaeological and historical sites within the construction footprint	-3	-1	-3	-3	-3	-3	-2	-2	-1	-1	-1		
	Significant	High	10 to 16	15	Socio-economic	Creation of short-term employment opportunities during the construction phase	5	5	5	5	5	5						Implement employment policies that favour locals over people from elsewhere	
	Increasing Significance	Medium	4 to <10	16	Dust	Dust will be generated during the construction phase of the proposed development which may impact surrounding area	-6	-3	-3	-3	-3	-4	-3	-1	-1	-1	-1	-2	Spray water when dust is generated
	Significant	High	10 to 16	17	Visual	Site may look unsightly as a result of construction activities	-6	-3	-2	-4	-5	0	-4	-3	-2	-1	0	-2	Complete the construction phase and clear rubble and other waste as soon as possible
	Increasing Significance	Medium	4 to <10	18	Noise	Noise will be generated by construction activities	-5	-2	-2	-3	-2	-3	-3	-2	-1	-2	-1	-2	Keep construction activities within normal working hours
	Significant	High	10 to 16	19	Services	Increase in demand for municipal services (e.g. water, electricity, sewage disposal and refuse disposal)	-7	-3	-4	-4	-3	-3	-3	1	-3	-2	-1	-2	Install solar panels on roof, install high pressure taps in toilets
	Insignificant	Low	1 to <4	20	Socio-economic	Minimisation of unemployment in the area around the proposed site	7	7	2	7	8	6							Mitigation is not required