lishment of a visitor's science centre on Erf 431				Nature of Impact				Without Mitigation (Baseline)					Without With Mitigation						
ENVIRONMENTAL RATING SIGNIFICANCE KEY						Probability		Duration	Magnitude	le Receiving	Mitigation Score (Baseline)	Probability	П	Duration	Magnitude	Receiving Environment (Consequence)	With Mitigation Score (Impact Assessment)	Short Description of some Mitigation Measures /	
			Number	Aspect	Impact	(Likelihood)	Extent	(Frequency)	(Intensity/ Severity)			(Likelihood)	Extent ((Frequency)	(Intensity/ Severity)			Enhancement Measures	
							-		CON	ISTRUCTION PHAS	SE		-		ocvenny)	(consequence)			
	SIGNIFICANCE	RATING	Final rating score /	- 1	Groundwater	Pollution	0	0	0	0	0	0	0	0	0	0	0	0	
Impacts	A	Very High	value range		Waste	Pollution caused by improper disposal of sewage													Provide a toilet for every 15
ě	Very Significant		>11 to -16 >-7 to -11				-4	-1	-3	-2	-2	-3	-1	-1	-3	-1	-1	-2	constrution workers and
	very significant			. 2															require the workers to only answer nature calls in the
Positive Negative	Significant																		toilets
	Increasing Significance	Medium	>-4 to -7	3		Littering and pollution	-6	-1	-3	-5	-3	-4	-2	4	-3	-1	-1	-2	Provide an environmental
	Insignificant		-2 to -4																awareness presentation
			-1 to <-2																before construction work is
	SIGNIFICANCE		Final rating score /																commenced with and hold the
	^		value range																construction supervisor responsible for adherence.
	Significant		10 to 16																Keep construction work
	Increasing Significance		4 to <10			Clearance of indigenous vegetation	-7	-3	-2	-4	-3	-4	-7	-1	-2	-1	-1	-2	strictly within the authorised
	Insignificant		1 to <4	1				_			_				_				development footprint
	•			5		Protected & endangered plant species: Potential impact on threatened or protected	0	0	0	0	0	0	0	0	0	0	0	0	
				6		Conservation priority: Potential impact on protected areas,	-7	-4	-2	-4	-3	-4	-5	-3	-2	-1	-2	-3	Keep construction work
				_		CBAs, ESAs or Centres of Endemism.		-	_					_	-	-			strictly within authorised Keep construction work
				7		Connectivity: Potential loss of ecological migration corridors.	-4	-3	-2	-4	-3	-4	-2	-2	-2	-1	-2	-2	strictly within the authorised
					İ														Comply with
				8	Biodiversity	Encroachment of alien invasive vegetation in disturbed areas	-4	-3	-2	-2	-3	-3	-2	-2	-1	-1	-1	-2	recommendations in terrestrial
				9		due to costruction activities		-3	-2	-2	-3	-3	-2	-2	-1	-1	-1	-2	biodiversity investigation
																			report
						Veld fire risk: Potential risk of veld fires as a result of	-5	-6	-4	-5	-5	-5	-2	-2	-1	-1	-3	-2	No fires must be allowed on
						construction workers trying to warm themselves.											_		the site
				10		Cumulative impacts: Cumulative impact associated with	_					-2		١.					Keep to all the mitigation
						proposed activity.	-2	-1	-1	-1	-1	-2	-1	-1	-1	-1	-1	-1	measures specified above and below and in the EMPr.
				11		The "No-Go" option: Potential impact associated with the No-Go	. 0	0	0	0	0	_	0	0	0	0	0	0	Delow and in the EMPL.
				11		alternative.	-7	-3	-3	-3	-3		0	0	0	0	0	0	
				12	Services		-/	-3	-3	-3	-3	-4	U	U	- 0	U	U	- 0	Obtain authorisation from
			13	Impact on Cultural Archaeological Palaeontological, and Heritage	Artefacts may be discovered and/or damaged during the		١	_	١.	1		Ι.	Ι.	l	1			SAHRA before clearing the on-	
						construction phase.	-2	-3	-2	-3	-3	-3	-2	-2	-1	-1	-1	-2	site middens of medium
																			significance.
				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	-2	
																			Implement employment
				15	Socio-economic	Creation of short-term employment opportunities during the construction phase.	5	5	5	5	5	5						#DIV/0!	policies that favour locals over
																			people from elsewhere
				16	Dust	Dust will be generated during the construction phase of the	-6	-3	-3	-3	-3	-4	-3	-1	-1	-1	-1	-2	Spray water when dust is
						proposed development which may impact surrounding area													generated
					1														Complete the construction phase and clear rubble and
				17	Visual	Site may look unsightly as a result of construction activities	-6	-3	-2	-4	-5	0	-4	-3	-2	-1	0	-2	other waste as soon as
																			possible.
							-			-3			-3	_					Keep construction activities
			18	Noise	Noise will be generated by construction activities	-5	-2	-2		-2	-3	-3	-2	-1	-2	-1	-2	within normal working hours	
				OPERATIONAL PHASE													mstan solar panels on root.		
				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	-4	-2	install high pressure taps in
				20	Socio-economic	Alleviation of unemployment in the area around the proposed	7	7	2	7	8	6		1 _					Mitigation is not required
						anne					1			<u> </u>					gas.on is not required