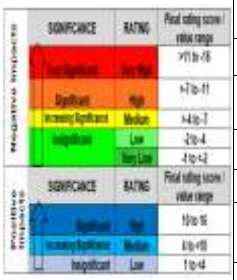
Project Name: New Wave Dam

ENVIRONMENTAL RATING SIGNIFICANCE KEY



Nature of Impact			Without Mitigation (Baseline)							
Number	Aspect	Impact	Probability (Likelihood)	Extent	Duration (Frequency)	Magnitude (Intensity/ Severity)	Receiving Environment (Consequence)	Without Mitigation Score (Baseline)	Probability (Likelihood)	Extent
								CONSTRUCTION PHASE		
1	Soil contamination	Soil contamination caused by construction workers answering nature calls out in the bush and fuel spilling onto the ground during refuelling etc	-7	-3	-2	-7	-3	-5	-2	-2
2	Dust generation	On site dust nuisance due to inadequate dust control measures.	-7	-2	-2	-4	-2	-4	-3	-2
3	Waste disposal	Insufficient number of toilets and / or inappropriate disposal of sewage	-7	-3	-2	-3	-3	-4	-1	-1
4		Littering, inappropriate disposal of spoil and inappropriate disposal of cleared plant material	-7	-3	-2	-3	-3	-4	-1	-1
5	Terrestrial biodiversity	Clearance of indigenous vegetation from proposed site	-2	-1	-2	-2	-1	-2	-1	-1
6		Potential impact on rare or protected species	0	0	0	0	0	0	0	0
7		Impact on the ESA riparian area	-8	-2	-8	-7	-2	-6	-2	-2
8		Connectivity: Potential loss of ecological corridors.	-4	-4	-2	-3	-2	-3	-2	-2
9		Cumulative impacts: Cumulative impact associated with proposed activity.	0	0	0	0	0	0	0	0
10	Services	Increased demand on services impacting current services capacity (i.e. increased demand for water, electricity, sewage disposal).	0	0	0	0	0	0	0	0
11	haeological Palaeor	Heritage resources of significance may be damaged.	-2	-2	-2	-2	-2	-2	-1	-1
12		Loss and/or damage to archaeological resources of significance	-1	-2	-8	-1	-1	-3	-1	-1
13	Freshwater	Contaminated water, sediment and other pollutants from the proposed site may reach the Olifants River. Potential damage to the remaining riparian corridor.	-13	-3	-2	-6	-14	-8	-2	-2
13	Noise	Potential noise generated by construction work	-5	-1	-2	-2	-2	-3	-2	-1
14	Visual	Eyesore caused by earthmoving activities, construction vehicles gathered in one place, consluction site office, etc.	-3	-2	-2	-2	-1	-2	-3	-2
15	Geotechnical	Dam structural deficiencies	-16	-1	-4	-9	-10	-8	-1	-3
16	Socio-economic	Creation of short-term employment opportunities during the dam construction phase	16	2	4	4	4	6		
								OPERATIONAL PHASE		
1	Freshwater	Stormwater contamination, seepage and increased agricultural return flow, resulting in eutrophication.	-16	-2	-2	-2	-2	-5	-1	-1
2	Terrestrial biodiversity	Loss of ecological connectivity	-1	-2	-1	-1	-1	-2	-1	-2
3	Socio-economic	Increase in the water security of the farm and consequent increase in job security	16	2	4	9	8	8		

With Mitigation			With Mitigation Score (Impact Assessment)	Short Description of some Mitigation Measures / Enhancement Measures
Duration (Frequency)	Magnitude (Intensity/ Severity)	Receiving Environment (Consequence)		
-2	-3	-2	-3	provided for workers and the toilets must be placed at least 32m from the nearest bank of
-2	-1	-2	-2	more than 30km per hour and the site should be sprayed with water whenever dust
-2	-1	-1	-2	occupants of vehicles that come to the site and leave the site must be kept aware that littering is not allowed. This
-2	-1	-1	-2	occupants of vehicles that come to the site and leave the site must be kept aware that
-2	-1	-1	-2	The recommendation contained in the Biodiversity Compliance Statement
0	0	0	0	The EMPr as well as the recommendations contained in the biodiversity compliance statement must be implemented.
-8	-2	-2	-4	dam wall and keep clearing alien vegetation regularly from
-2	-2	-2	-2	The EMPr as well as the recommendations contained in the freshwater specialist
0	0	0	0	
0	0	0	0	
-1	-1	-1	-1	encountered during construtions that is suspected of being of heritage significance, construction work must be paused and Heritage
-1	-1	-1	-1	encountered during construtions that is suspected of being archaeologically
-2	-2	-3	-3	the dry season and pave the toe of the dam. •Keep construction work more
-2	-1	-1	-2	All construction vehicles must be fitted with standard silencers. All silencers must be
-2	-2	-1	-2	Complete project as soon as possible
-1	-1	-1	-2	Import suitable material to site for dam foundation. Use
			#DIV/0!	Employ local residents over other people as much as
-1	-1	-1	-2	•Vegetate the new dam wall with indigenous plants under the guidance of an accredited botanist
-1	-1	-1	-2	N/A