

B.		Impact Rating: Construction Phase	Proposed construction of Jade Hills Portion 26 of Farm Stinkfontein 383, Ceres.														
			WITHOUT MITIGATION					WITH MITIGATION									
No.	ASPECT	IMPACT	Probability	Extent	Duration	Magnitude	Receiving Environment	Without Mitigation Score (Baseline)	Probability	Extent	Duration	Magnitude	Receiving Environment	With Mitigation Score (Impact assessment)	Short Description of Mitigation Measures		
1	Botanical	Potential loss of Ceres Shale Renosterveld	-2	-2	-1	-1	-1	-1,4	-1	-1	-1	-1	-1	-1	Implementation of the EMPr * A suitably qualified ECO must be appointed; * Environmental Awareness training to be conducted with all workers; * Ensure construction activities are restricted to the demarcated footprint, strictly prohibit any vehicles or construction related activities outside of the demarcated footprint area * Access roads to the dam should be limited to a single circular route in and out. Ensure construction vehicles stay on existing roads and erect signs to remind workers not to deviate from the roads.		
		Loss Ecological Support Areas	-4	-2	-2	-2	-16	-5,2	-1	-1	-1	-1	-1	-1	Implementation of the EMPr; *Ensure construction activities are restricted to the demarcated footprint and strictly prohibit any vehicles or construction related activities outside of the demarcated footprint area.		
		Soil contamination from vehicles/ concrete/ portable toilets	-8	-2	-2	-1	-1	-2,8	-2	-1	-1	-1	-1	-1	* Implementation of the EMPr; *Ensure construction activities are restricted to the demarcated footprint and strictly prohibit any vehicles or construction related activities outside of the demarcated footprint area. *Concrete mixed on site as per the EMPr and surplus must be disposed of in the correct manner. Inspect all vehicles daily for the early detection of deterioration or leaks. * The contractor should ensure drip trays are placed under stationary vehicles. * Spill kits must be available. Workers should be trained how to use spill kits to rectify a spill immediately. Records must be kept of any spills. * Portable toilets must be placed no less than 32m form any watercourse/ stream and serviced regularly in order to prevent leakage/spillage. No portable toilets to be placed in watercourse 1 where the weir it to be rehabilitated.		

2	Water	Loss of riparian habitat during construction of the dam wall & spillway	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	<p>* Ensure construction activities and vehicles are restricted to the demarcated areas to prevent further degradation. Access roads to the dam should be limited to a singular route in and out;</p> <p>* Vehicles will not be permitted to drive through the streams;</p> <p>* Ensure construction footprint is kept as small as possible.</p>	
		Alteration of hydrology/ flow of the drainage line	-2	-1	-4	-2	-1	-2	-1	-1	-1	-1	-1	-1	-1	-1	<p>* Ensure construction activities are restricted to the demarcated footprint and strictly prohibit any vehicles or construction related activities outside of the demarcated footprint area.</p> <p>* No concrete will be mixed on site and surplus must be disposed of in the correct manner.</p> <p>Construction should be limited to the dry season</p> <p>Ensure no building material allowed to wash down stream</p> <p>Line the spillway with natural stone rather than concrete;</p> <p>Ensure construction footprint is kept as small as possible;</p>
		Potential contamination of surface water & ground water	-2	-1	-4	-2	-1	-2	-1	-1	-1	-1	-1	-1	-1	-1	<p>* Implementation of the EMPr; *Ensure construction activities are restricted to the demarcated footprint and strictly prohibit any vehicles or construction related activities outside of the demarcated footprint area.</p> <p>*Concrete mixed on site as per the EMPr and surplus must be disposed of in the correct manner.</p> <p>Inspect all vehicles daily for the early detection of deterioration or leaks.</p> <p>* The contractor should ensure drip trays are placed under stationary vehicles.</p>
3	Heritage	Loss of archaeological/ palaeological resources	-2	-1	-4	-1	-1	-1,8	-1	-1	-1	-1	-1	-1	-1	<p>* Spill kits must be available. Workers should be trained how to use spill kits to rectify a spill immediately. Records must be kept of any spills.</p> <p>* Portable toilets must be placed no less than 32m from any watercourse/ stream and serviced regularly in order to prevent leakage/spillage. No portable toilets to be placed in watercourse 1 where the weir it to be rehabilitated.</p>	
4	Dust	Potential dust from construction activities	-2	-1	-1	-1	-1	-1,2	-1	-1	-1	-1	-1	-1	-1	<p>Dust will be monitored. If dust becomes a problem, dust will be controlled by means of water spray vehicles. No over watering of the site area or roads surfaces should occur. Speed limits must be enforced in all areas to limit the levels of dust pollution. Max speed of 40km/h must be maintained. Protect stockpiled topsoil using tarp or erosion blankets. Stockpile topsoil within an area where no stormwater runoff is expected</p>	
5	Visual	Potential visual impact from construction	-2	-1	-1	-1	-1	-1,2	-1	-1	-1	-1	-1	-1	-1	<p>Construction related activities should remain within the demarcated footprint</p>	

6	Noise	Potential noise from construction	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	<p>* Construction noise is expected to be minimal communities in close proximity to the construction site</p> <p>* No</p> <p>* Construction should take place during daylight hours.</p>
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