

A.	Impact Rating: Construction	Pre-Proposed construction of Toeka RE Farm Houdenberg No 415, Ceres.													
No.	ASPECT	IMPACT	WITHOUT MITIGATION					WITH MITIGATION							
			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 Kouebokkeveld Shale Fynbos	-8	-2	-16	-2	-2	-6	-1	-1	-16	-1	-1	-4	<p>*Implementation of the EMPr * A suitably qualified ECO must be appointed;* Before any work is done physically demarcate the footprint of the proposed dam & access routes route and strictly prohibit any vehicles or construction related activities outside of the demarcated footprint area - This can be done with danger tape, which should be removed once the construction activities have been completed;* Ensure signs are put up reminding workers to stay on the existing roads;* Indiscriminate cleaning of areas must be avoided; * All alien plants to be removed within the construction footprint and immediate surroundings; * An intergrated waste plan to be agreed upon and implemented;</p> <p>* Environmental Awareness training to be conducted with all workers. Recommendations from specialists to be included.</p>
		Loss of Ecological Support Areas (ESA)	-8	-2	-8	-2	-2	-4,4	-1	-1	-4	-1	-1	-1,6	<p>**Implementation of the EMPr;* Before any work is done physically demarcate the footprint of the proposed dam & access routes and strictly prohibit any vehicles or construction related activities outside of the demarcated footprint area. * Ensure signs are put up reminding workers to stay on the existing roads/ in the construction footprint.</p> <p>* Indiscriminate cleaning of areas must be avoided; * Environmental Awareness training to be conducted with all workers. Recommendations from specialists to be included.</p>

		Soil contamination from vehicles on site	-16	-2	-4	-2	-2	-5,2	-2	-1	-1	-1	-1	-1,2	<p>* Implementation of the EMPr. *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 located at least 32m from the boundary of the any streams must be serviced regularly in order to prevent leakage/spillage.</p>
2	Water	Loss of riparian habitat	-16	-2	-16	-2	-2	-7,6	-2	-1	-2	-1	-1	-1,4	<p>*Implementation of the EMPr; * Before any work is done physically demarcate the footprint of the proposed dam & access routes and strictly prohibit any vehicles or construction related activities outside of the demarcated footprint area; * Ensure signs are put up reminding workers to stay on the existing roads; * Indiscriminate cleaning of areas must be avoided;* Environmental Awareness training to be conducted with all workers * As a precautionary measure, importance must be given to emergency preparedness with regards to any spillages or leakage of hydrocarbons on site. Recommendations from the specialist to be included.</p>
		Alternation of hydrology/ flow of the drainage line	-16	-4	-8	-8	-2	-7,6	-2	-2	-1	-1	-1	-1,4	<p>* Implementation of Monitoring Plan and Mechanical Systems to enure Ecological FLOW requirements are met and to ensure that water is not cut off by the proposed dam. *Implementation of the EMPr, Environmental Awareness training to be conducted with all workers; *A suitably qualified ECO must be appointed;* Before any work is done physically demarcate the footprint of the proposed dam & access routes route and strictly prohibit any vehicles or construction related activities outside of the demarcated footprint area - This can be done with danger tape, which should be removed once the construction activities have been completed; * Ensure signs are put up reminding workers to stay on the existing roads and not to enter any streams: * Portable toilets must be located at least 32m from the boundary of the any streams must be serviced regularly in order to prevent leakage/spillage. * Recommendations from the specialist to be included.</p>

		Surface & ground water contamination	-8	-2	-8	-4	-2	-4,8	-2	-1	-1	-1	-1	-1,2	* 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.
3	Heritage	Loss of archaeological/ palaeological resources	-4	-1	-16	-2	-2	-5	-2	-1	-1	-1	-1	-1,2	*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. *In the case of any significant new fossil finds exposed during dam construction these should be safeguarded - preferably in situ - and reported by the ECO as soon as possible to Heritage Western Cape
4	Dust	Potential dust from ground clearing and topsoil removal	-4	-2	-4	-1	-2	-2,6	-1	-1	-1	-1	-1	-1	*Implementation of the EMPr; *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 at 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
5	Visual		-4	-2	-2	-1	-2	-2,2	-1	-1	-1	-1	-1	-1	*Implementation of the EMPr; *Construction related activities should remain within the demarcated footprint
6	Noise		-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	*Implementation of the EMPr; *Construction related activities should take place in day time hours