TURKSVY DAM AND AGRICULTURAL DEVELOPMENT														
Nature of Impact			Without Mitigation (Baseline)					Without Mitigation Score (Baseline)	With Mitigation					With Mitigation Score (Impact Assessment)
Number	Aspect	Impact	Probability (Likelihood)	Extent	Duration (Frequency)	Magnitude (Intensity/ Severity)	Receiving Environment (Significance/ Consequence)		Probability (Likelihood)	Extent	Duration (Frequency)	Magnitude (Intensity/ Severity)	Receiving Environment (Significance/ Consequence)	
CONSTRUCTION PHASE														
1	Freshwater Resources	Loosening of soil during construction phase, washing of soil down the drainage line and into the Orange River during a storm event	-8	-2	-2	-4	-8	-5	-2	-2	-2	-2	-8	-3
2	Botanical: Natural Vegetation	~ Transformation of natural habitat to vineyard. ~ Total loss of indigenous vegetation on the footprint of the development. ~ Increased dust levels during vineyard preparation. ~ Increased weedy and alien invasive plants. ~ Loss of faunal habitat.	-8	-1	-8	-4	-2	-5	-8	-1	-4	-2	-1	-3
3	Botanical: Alien Vegetation	As a result of the loss of indigenous vegetation and resulting disturbance, alien plant species might invade the area.	-8	-1	-8	-4	-2	-5	-8	-1	-4	-2	-1	-3
4	Botanical: Drainage channels	~Loss of vegetation in smaller drainage channels. ~Loss of protected tree species. ~Loss of biodiversity and habitat for fauna. ~Impeding and/or diversion of the natural flow of water. ~Increase in weedy and alien invasive plant species. ~Increase in soil erosion.	-8	-1	-8	-4	-2	-5	-8	-1	-4	-2	-1	-3
5	Impact on Cultural, Archaeological and Heritage resources	A total of 17 occurrences of MSA lithic material was recorded outside the development footprint on Olyvenhouts Drift Erf 1074. The recorded lithic material consists of low- to medium-density background scatters made predominantly from BIF, CCS and dolomite.	-2	-1	-2	-2	-1	-2	-1	-1	-2	-1	-1	-2
6	Impact on Cultural, Archaeological and Heritage Resources	A total of 4 incidences of historical material without archaeological context was recorded outside the development footprint on Olyvenhouts Drift Erf 1074.	-2	-1	-2	-2	-1	-2	-1	-1	-2	-1	-1	-2
7	Impact on Cultural, Archaeological and Heritage	An informal graveyard with a minimum of 27 graves was recorded near the southern edge of the proposed irrigation dam development footprint on Olyvenhouts Drift Erf 1074.	-2	-1	-2	-2	-2	-2	-1	-1	-2	-1	-1	-2
8	Impact on Palaeontological resources	The Palaeontological Sensitivity of the Gordonia Formation of the Kalahari Group is low while the Palaeontological Sensitivity of the Bethesda Formation is insignificant.	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
9	Socio-economic	Creation of short- and long-term employement opportunities.	8	2	2	2	2	3	8	2	2	2	2	3
10	Dust	Dust will be generated during the construction of the dam and agricultural areas	-2	-1	-2	-2	-2	-2	-1	-1	-2	-1	-1	-2
11	Visual	Site may be not aestetic amid natural background.	-8	-1	-2	-2	-1	-3	-8	-1	-2	-1	-1	-3
12	Traffic	Increase in trucks slowing down and turning to enter/ Construction area.	-4	-1	-2	-2	-2	-3	-4	-1	-2	-2	-2	-3
13	Noise	Noise will be generated during the construction phase.	-4	-1	-2	-1	-1	-2	-2	-1	-2	-1	-1	-2
OPERATIONAL PHASE														
14	Freshwater Resources	See impacts above	-8	-2	-4	-4	-4	-5	-2	-2	-4	-2	-4	-3
16	Socioeconomic	Creation of short- and long-term employement opportunities.	8	2	2	2	2	3	8	2	2	2	2	3

18	Nuisance (visual etc.)	Visual impact iof the development	-1	-1	-4	-2	-1	-2	-1	-1	-4	-1	-1	-2