IMPACT ASSESSMENT TABLE: WESTRIDING RESERVOIR PIPELINE PROJECT

	Pre-mitigation:								Post-mitigation:							
Impact	Duration	Extent	Severity	Impact on irreplaceable resources	Consequence	Probability	Significance	Recommended Mitigation	Duration	Extent	Severity	Impact on irreplaceable resources	Consequence	Probability	Significance	
	1,2,3,4	1,2,3,4,5,6	-3,-2,-1,0,1,2,3	0,1	(Dur+Ext+Irr) x Sev	0,1,2	-66 to +66		1,2,3,4	1,2,3,4,5,6	-3,-2,-1,0,1,2,3	0,1	(Dur+Ext+Irr) x Sev	0,1,2	-66 to +66	
Direct Impacts																
								1. Topsoil to be removed prior to construction and stockpiled for								
	2	2						2. Soil storage areas must be located further than 50 meters	2				5	4	5	
Degradation of soils and soil erosion from excavation of trenches for the laying of the pipeline.	3	2	-2	2	-12	2	-24	 Provide drip-trays / or use other methods to reduce leaking of 	2	2	-1	1	-5	1	-5	
								standing machinery/plant. 2. The machinery on site is not to be refuelled or serviced near								
Contamination/Pollution of groundwater from leaks/spillages from hydrocarbons	3	3	-2	2	-12	1	-12	natural areas. 3. Spillages of fuels, oils and other potentially harmful chemicals	2	2	-2	1	-10	1	-10	
		-	-					1. Provide drip-trays / or use other methods to reduce leaking of standing machinen/clast	_	-				· · · ·		
								 The machinery plant. The machinery on site is not to be refuelled or serviced near patient access. 								
Contamination/Pollution of surface water from leaks/spillages from hydrocarbons	3	3	-2	2 (-12	2 1	-12	3. Spillages of fuels, oils and other potentially harmful chemicals	2	2	-2	1	-10	1	-10	
								Limit the removal of vegetation to the construction footprint. Remove all invasive species on site								
								2. Ensure employees have been educated in minimizing anyicemental impacts								
Destruction and loss of variatetion and habitat as result of site clearance	2	2					10	No bulldozers must be used in bush clearing.	1					1	2	
	2	2	-			2	-10	 Avoid indigenous vegetation where possible. Limit the amount of construction vehicles on site. 		2	-1	0	-3		-3	
Noise impact as a result of the use of construction machinery on site and within the residential								Maintain construction vehicles and machinery in good working order to reduce the noise on site								
areas	3	2	-1	(-5	5 2	-10	3. Equipment should be fitted with noise reduction devices.	2	2	2 -1	0	-4	1	-4	
								 Where rare fauna (vertebrate and invertebrate) stands to be lost, every effort should be made to minimise the impact. 								
								Prohibit / control access to portions of the property that is to remain undeveloped; and ensure that animals are not impacted								
								on (e.g. illegal poaching) 3. Clear the site in a logical sequence and manner that allows								
Loss of found as a result of site clearance	2	2					10	mobile species to escape. 4. Maintain any habitat corridors effectively.	2		1	1	5	1	5	
	2	5	-		·	2	-12	1. Meet the requirements of the government policies for	2	. 2	-1	1	-5	1	-5	
								procurement and employment, as are applicable to local government, to take care of and avoid potential conflict between								
Increased job opportunities for unskilled labour	3	3	2	2 () 12	2 2	2 24	people in the immediate surroundings seeking employment and those from elsewhere.	3	3	3 3	0	18	2	36	
								 Control the amount of construction vehicles on site. Exposed soil must be dampened to prevent wind action from 								
Increased dust emissions as a result of construction machinery moving material to and from the								causing dust plumes. 3. Machinery and vehicles must be in good working conditions								
site	3	3	-2	2 (-12	2 2	-24	so as to emit minimal air pollution.	2	3	-1	1	-6	1	-6	
Indirect impacts								1. Reduce the disturbance generated by construction vehicals								
								on site, reducing dust emmissions. 2. Adequate levelling and compaction during construction								
								activities so to reduce the wind blow pollution. 3. Adequate stockpiling of topsoil, away from prevalient winds								
								and high gradient slopes. 4. Sedimentation control devices, such as berms, must be								
								temporarily installed in order to prevent sedimentation.								
Siltation/Sedimentation of watercourses as a result of excavation of trenches	3	3	-2	2 (-12	2 1	-12	from any water body or water source.	2	2	-1	1	-5	1	-5	
								 Identify disposal sites for the various categories of waste likely to be generated on site 								
								Make sure general cleanliness on site Advice recycling and rause of waste must occur whenever								
								possible.								
								Kecycling bins must be separate and clearly marked according to material								
								 waste must be stored sarely away from employees and residents' exposure. 								
								 Construction debris is not to be buried on site. No burning of waste will occur on site, unless to remove alien 					_		-	
Impact of Improper waste management on site	3	3	-2	2 (-12	1	-12	seeds from storage sites.	2	2	-1	1	-5	1	-5	
								 AMAFA should be contacted if any graves are identified during earth moving activities and all development should cease 								
								until further notice. 2. No structures other than sixty years are allowed to be								
Potential impact on heritage resources and artefacts as a result of excavation of trenches	3	3	-2	2	-14	1	-14	demolished, altered or destroyed without a permit from AMAFA.	2	2	-2	1	-10	1	-10	
)										
								1. Any exotic vegetation (trees and plants) encountered should								
								be removed from the site and properly disposed of. 2.All bare surfaces across the construction site must be checked								
								for alien plants at the end of every week and alien pants removed by hand pulling and adequately disposed.								
								Monitor the route for a one year period afterwards, at six month intervals, and destroy any alien species that establish								
								within the construction footprint. Best practice will involve herbicide treatment or herbicide treatment following cutting of								
								stumps or frilling of non-herbaceous alien plants, not cutting alone.								
								 Where construction encroaches into open space areas, destroy all alien species within 30 metres of the footprint during 								
								or by the end of construction and allow follow up annually for two								
								members of the public) in dealing with the very tall Eucalyptus								
	1 .							herbiciding of the trees can be omitted.	l .	_		-				
	4	2	-3		-18	1	-18		2	2	-1	0	-4	1	-4	
Direct Impacts																
								1. Topsoil to be removed prioir to construction and stockpiled for rehabilitation during decomissioning								
Soil erosion as a result of Scouring of the pipeline during testing, maintenance and energian	2	2		,				2. Soil storage areas must be located further than 50 meters	-				5		5	
our crostor as a result or occurring of the pipeline during testing, maintenance and operation	3	2	-2		-12	2		Limit the amount of construction vehicles on site. An example a construction vehicles on site.	2	2	-1	1	-0	1	-U	
	-							 manital construction venicles and machinery in good working order to reduce the noise on site Environment about the first with size. 								
Increased noise generation during maintenance of the pipeline Indirect impacts	2	1	-2	(-6	2	-12	5. Equipment should be litted with holse reduction devices.	2	2	-1	0	-4	1	-4	

Establishment of alien vegetation in areas disturbed during construction	4	2	-2	0 -12	2 2	-24	 Monitor the route for a one year period afterwards, at six month intervals, and destroy any alien species that establish within the construction footprint. Best practice will involve herbicide treatment or herbicide treatment following cutting of stumps or frilling of non-herbaceous alien plants, not cutting alone. Where construction encroaches into open space areas, destroy all alien species within 30 metres of the footprint during or by the end of construction and allow follow up annually for two years. However, due to the difficulty and hazard (including to members of the public) in dealing with the very tall Eucalyptus grandis trees in open space area 5, cutting down or frilling and herbiciding of the trees can be omitted. 	1	2 -1	0	-3	-3
Cumulative Impacts												
None identified												
DECOMMISIONING PHASE												