

KTE Pipeline														
Nature of Impact			Without Mitigation (Baseline)					With Mitigation						
Number	Aspect	Impact	Probability (Likelihood)	Extent	Duration (Frequency)	Magnitude (Intensity/Severity)	Receiving Environment (Significance/Consequence)	Without Mitigation Score (Baseline)	Probability (Likelihood)	Extent	Duration (Frequency)	Magnitude (Intensity/Severity)	Receiving Environment (Significance/Consequence)	With Mitigation Score (Impact Assessment)
CONSTRUCTION PHASE														
1	Biodiversity Orange River Extraction Point	Special habitats: Potential impact on special habitats (e.g. true quartz or "heuweltjies")	-1	-1	-4	-1	-4	-2	-1	-1	-4	-1	-4	-2
		Landuse and cover: Potential impact on socio-economic activities.	-2	-1	-4	-1	-4	-2	-2	-1	-4	-1	-4	-2
		Vegetation status: Loss of vulnerable or endangered vegetation and associated habitat.	-2	-1	-4	-1	-4	-2	-2	-1	-4	-1	-4	-2
		Conservation priority: Potential impact on protected areas, CBA's, ESA's or Centre's of Endemism.	-1	-1	-4	-1	-4	-2	-2	-1	-4	-1	-4	-2
		Connectivity: Potential loss of ecological migration corridors.	-1	-1	-4	-1	-4	-2	-2	-1	-4	-1	-4	-2
		Protected and Endangered plant species: Potential impact on threatened or protected plant species.	-1	-1	-4	-1	-4	-2	-2	-1	-4	-1	-4	-2
		Cumulative impact associated with proposed activity.	-1	-1	-4	-1	-4	-2	-2	-1	-4	-1	-4	-2
2	Biodiversity Lennertsville WTW	Landuse and cover: Potential impact on socio-economic activities.	-4	-1	-8	-1	-1	-4	-2	-1	-4	-1	-4	-2
		Vegetation status: Loss of vulnerable or endangered vegetation and associated habitat.	-1	-1	-4	-1	-4	-2	-2	-1	-4	-1	-4	-2
		Conservation priority: Potential impact on protected areas, CBA's, ESA's or Centre's of Endemism.	-2	-1	-4	-1	-4	-3	-2	-1	-4	-1	-4	-2
		Connectivity: Potential loss of ecological migration corridors.	-2	-1	-4	-1	-4	-3	-2	-1	-4	-1	-4	-2
		Protected and Endangered plant species: Potential impact on threatened or protected plant species.	-2	-1	-4	-1	-4	-3	-2	-1	-4	-1	-4	-2
		Cumulative impact associated with proposed activity.	-8	-1	-8	-4	-1	-5	-2	-1	-4	-1	-4	-2
3	Biodiversity R27 Lennertsville to Kenhardt	Landuse and cover: Potential impact on socio-economic activities.	-1	-1	-4	-1	-4	-2	-1	-1	-4	-1	-4	-2
		Vegetation status: Loss of vulnerable or endangered vegetation and associated habitat.	-2	-1	-4	-1	-4	-3	-2	-1	-4	-1	-4	-2
		Conservation priority: Potential impact on protected areas, CBA's, ESA's or Centre's of Endemism.	-2	-1	-4	-1	-4	-3	-2	-1	-4	-1	-4	-2
		Connectivity: Potential loss of ecological migration corridors.	-1	-1	-4	-1	-4	-2	-2	-1	-4	-1	-4	-2
		Protected and Endangered plant species: Potential impact on threatened or protected plant species.	-8	-1	-8	-4	-1	-5	-2	-1	-4	-1	-4	-3

		Cumulative impact associated with proposed activity.	-8	-1	-8	-4	-1	-5	-2	-1	-4	-1	-4	-3
4	Biodiversity The road reserve from Soafskolk to Farm Uitkyk	Watercourses & Wetlands: Potential impact on natural water resources and it's ecological support areas.	-2	-1	-4	-1	-4	-3	-2	-1	-4	-1	-4	-3
		Landuse and cover: Potential impact on socio-economic activities.	-1	-1	-4	-1	-4	-2	-2	-1	-4	-1	-4	-2
		Vegetation status: Loss of vulnerable or endangered vegetation and associated habitat.	-1	-1	-4	-1	-4	-2	-2	-1	-4	-1	-4	-2
		Conservation priority: Potential impact on protected areas, CBA's, ESA's or Centre's of Endemism.	-2	-1	-4	-1	-4	-3	-2	-1	-4	-1	-4	-3
		Connectivity: Potential loss of ecological migration corridors.	-1	-1	-4	-1	-4	-2	-2	-1	-4	-1	-4	-2
		Protected and Endangered plant species: Potential impact on threatened or protected plant species.	-2	-1	-4	-1	-4	-3	-2	-1	-4	-1	-4	-2
		Cumulative impact associated with proposed activity.	-2	-1	-4	-1	-4	-3	-2	-1	-4	-1	-4	-3
5	Avifauna	Destruction of natural vegetation and faunal habitat	-8	-1	-8	-4	-1	-5	-2	-1	-4	-1	-4	-3
6	Freshwater	Trenching of the new pipeline, washing of soil down the drainage line during storm events Trenching of the new pipeline through the Hartbees River, washing sediments down the Hartbees River when it rains Trenching of the new pipeline along the banks of the pan, washing of sediments into the pan	-8	-1	-8	-4	-4	-7	-4	-1	-8	-1	-1	-3
7	Freshwater (Rehabilitation following construction)	Destruction of stormwater infrastructure in the road reserve such as walls, berms, gabions and reno mattresses	-8	-1	-8	-4	-4	-7	-4	-1	-8	-1	-1	-3
8	Heritage	Field Rating IVB (KTE-037, 038, 039, 041, 006)	-8	-1	-8	-4	-1	-5	-4	-1	-8	-1	-1	-3
		Field Rating IVA (KTE-002, 003, 004, 005, 033) (Appendix D5)	-8	-1	-8	-4	-1	-6	-4	-1	-8	-1	-1	-3
		Graves with Field Rating IIIA (KTE-011, 014) (Appendix D5)	-8	-1	-8	-4	-1	-5	-4	-1	-8	-1	-1	-3
		Loss of fossil heritage by destruction, movement or sealing of fossil heritage in	-8	-1	-8	-4	-1	-5	-4	-1	-8	-1	-1	-3
		Or below the earth's surface	-8	-1	-8	-4	-1	-6	-4	-1	-8	-1	-1	-3
		Cumulative Impact	-8	-1	-8	-4	-1	-5	-4	-1	-8	-1	-1	-3
9	Palaeontological	Impacts associated with construction phase	-8	-1	-8	-4	-4	-7	-4	-1	-8	-1	-1	-3
		Employment of Workforce and Contractors	8	1	4	4	4	4	8	8	4	1	4	8

10	Socio-Economic	Economic Multiplier Effects	8	2	4	4	4	5	8	8	4	2	4	7	
		Influx of Jobseekers and Change in Population	-8	-1	-8	-4	-1	-5	-4	-1	-8	-1	-1	-1	-3
		Safety and Security Impacts	-8	-1	-8	-4	-1	-5	-4	-1	-8	-1	-1	-1	-3
		Increased Pressure on Local Services / Resources	-8	-1	-4	-4	-1	-6	-4	-1	-4	-1	-1	-1	-3
		Increased Probability of Fire Risk	-8	-1	-8	-4	-1	-5	-4	-1	-8	-1	-1	-1	-3
		Nuisance Impacts (Noise and Dust)	-8	-1	-8	-4	-4	-6	-4	-1	-4	-2	-1	-1	-3
11	Socio-economic (Cumulative)	An increase in employment opportunities, skills development, and business opportunities	8	2	4	4	4	5	8	8	4	2	4	7	
		Negative impacts and change to the local economy with an in-migration of labourers, businesses, and jobseekers	-2	-1	-4	-1	-4	-3	-2	-1	-4	-1	-4	-4	-3
12	Visual	Alteration of Landscape Character Local Land Use Dust and Construction Impact Nighttime lighting	-2	-1	-4	-1	-4	-3	-2	-1	-4	-1	-4	-3	
OPERATIONAL PHASE															
13	Avifauna	Destruction of natural vegetation and faunal habitat	-8	-1	-8	-4	-1	-5	-4	-1	-8	-1	-1	-3	
14	Freshwater	Operation of new pipeline	-2	-1	-4	-1	-4	-3	-2	-1	-4	-1	-4	-2	
15	Socio-economic	Direct and Indirect Employment Opportunities	-8	-1	-4	-4	-1	-6	-4	-1	-4	-1	-1	-3	
		Economic Multiplier Effects	8	1	4	4	4	4	8	8	4	1	4	8	
		Enhanced Water Supply and Security	8	2	4	4	4	5	8	8	4	2	4	7	