

Project Name: Wegdraal Housing Development			Nature of Impact					Without Mitigation (Baseline)					With Mitigation													
ENVIRONMENTAL RATING SIGNIFICANCE KEY			Number	Aspect	Impact	Probability (Likelihood)	Extent	Duration (Frequency)	Magnitude (Intensity/Severity)	Receiving Environment (Consequence)	Without Mitigation Score (Baseline)	Probability (Likelihood)	Extent	Duration (Frequency)	Magnitude (Intensity/Severity)	Receiving Environment (Consequence)	With Mitigation Score (Impact Assessment)									
SIGNIFICANCE																		RATING			Final rating score / value range					
Negative Impacts			Very Significant		Very High		>11 to -16		Significant		High		>-7 to -11		Increasing Significance		Medium		>-4 to -7		Insufficient		Low		-2 to -4	
Positive Impacts			Significant		High		10 to 16		Increasing Significance		Medium		4 to <10		Insufficient		Low		1 to <4							
CONSTRUCTION PHASE																										
1		Geology & soils	-4	-2	-2	-4	-2	-3	-2	-2	-2	-2	-2	-2	-2	-2										
2		Land-use and cover	-8	-2	-2	-4	-4	-4	-4	-2	-2	-2	-2	-4	-2	-3										
3		Vegetation status	-8	-2	-4	-8	-4	-6	-4	-4	-4	-2	-2	-2	-2	-3										
4		Conservation priority	-16	-2	-2	-8	-4	-7	-4	-2	-4	-2	-2	-2	-2	-3										
5		Connectivity	-8	-2	-2	-8	-4	-5	-2	-2	-2	-2	-2	-2	-2											
6	Botanical	Protected and endangered plant species:	-16	-4	-4	-4	-8	-8	-4	-2	-2	-2	-4	-4	-4											
7		Invasive alien plant species	-16	-2	-2	-8	-4	-7	-4	-2	-4	-2	-4	-2	-3											
8		Veld fire risk	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2											
9		Cumulative impacts	-16	-2	-2	-8	-4	-7	-4	-2	-2	-2	-2	-4	-3											
10		The "No-Go" option	-8	-2	-4	-8	-4	-6	0	0	0	0	0	0	0											
11	Heritage	Lithic occurrences	-4	-2	-2	-2	-2	-3	-2	-2	-2	-2	-2	-2	-2											
12		Cemeteries in close proximity to the proposed development footprint.	-8	-2	-8	-16	-4	-8	-2	-2	-2	-2	-4	-2	-3											
13	Palaeontology	Palaeontological significance (low)	-2	-2	-2	-2	-2	-2	-2	-2	-2	-1	-2	-2	-2											
14	Freshwater	Cumulative impact of solid waste ending up in the drainage line and Orange	-8	-4	-2	-8	-8	-6	-2	-2	-2	-2	-4	-2	-3											
15		Impact of graves and domestic animals on the riparian zone, trampling, destru	-8	-4	-2	-8	-4	-5	-4	-2	-2	-2	-2	-2	-3											
16	Soil	On site erosion due to improper management of stormwater during construction. Exposed platforms and trenches excavated for any pipeline are susceptible will be susceptible to erosion during the construction phase.	-8	-2	-2	-8	-8	-6	-4	-2	-2	-2	-4	-2	-3											
17		Erosion and safety hazards associated with excavated pipelines which are not backfilled.	-8	-2	-4	-8	-4	-6	-2	-1	-2	-8	-2	-2	-3											
18	Watercourse	Sedimentation of drainage line due to the uncontrolled stormwater runoff naturally flowing towards the drainage line.	-2	-2	-8	-16	-4	-7	-1	-2	-2	-8	-2	-2	-3											
19	Waste	Insufficient number of toilets and / or inappropriate disposal of sewage generated during the construction phase.	-8	-4	-2	-8	-4	-6	-2	-1	-2	-4	-2	-2	-3											
20		Temporary increase in waste and litter contaminating the receiving environment	-8	-4	-2	-4	-4	-5	-4	-2	-2	-2	-2	-4	-3											
21	Socio-economic	Creation of short-term employment opportunities during the construction phase.	8	2	2	4	2	4	8	2	2	4	2	2	4											
22	Dust	Dust will be generated during the construction of the proposed development which may impact drivers and commuters.	-8	-4	-2	-4	-2	-4	-2	-2	-2	-2	-2	-2	-2											
23	Visual	Site may be not aesthetic amid natural background.	-4	-2	-4	-4	-2	-4	-4	-2	-2	-2	-2	-4	-3											
24	Noise	Noise will be generated during the construction phase.	-8	-2	-2	-4	-4	-4	-4	-2	-2	-2	-2	-4	-3											
25	Unsustainable sourcing of raw materials	Illegal sourcing of raw materials, such as gravel, sand, water etc. promoting illegal mining operations causing significant damage to the environment.	-8	-4	-8	-8	-8	-8	-2	-1	-4	-8	-4	-4	-4											
OPERATION PHASE																										
26	Water supply	Increased pressure on water source for water supply.	-8	-4	-1	-8	-8	-6	-4	-4	-4	-4	-4	-4	-4											
27	Sewage management	Increased production of sewage which requires effective management	-16	-2	-8	-16	-4	-10	-8	-2	-2	-4	-4	-2	-4											
28	Solid waste management	Increased pressure on municipal waste removal services and illegal dumping of waste	-16	-2	-8	-16	-4	-10	-8	-2	-2	-4	-4	-2	-4											
DECOMMISSIONING AND CLOSURE PHASES																										
29	Waste	Demolition of infrastructure resulting in waste accumulation on-site and surrounding area.	-16	-2	-4	-8	-4	-7	-4	-1	-2	-2	-2	-4	-3											
30	Soil and water	Exposed soil becoming prone to erosion and sedimentation of the drainage line.	-8	-2	-8	-8	-4	-6	-2	-1	-2	-4	-4	-4	-3											