

Impact Assessment Matrix

POTENTIAL ENVIRONMENTAL IMPACT	ACTIVITY	ENVIRONMENTAL SIGNIFICANCE BEFORE MITIGATION								CUM	STATUS	RECOMMENDED MITIGATION MEASURES / REMARKS	ENVIRONMENTAL SIGNIFICANCE AFTER MITIGATION							
		M	D	S	I	R	P	TOTAL	SS				M	D	S	I	R	P	TOTAL	SS
TOPOGRAPHY																				
Dust	roads either delivering or collecting of stock	6	5	2	2	3	5	90		90	Negative	Reduction in speed. Combining deliveries into one truck	4	4	2	1	1	3	36	
Noise - Vehicles	Vehicle noise from deliveries / collections	4	5	2	1	3	3	45		45	Negative	Reduce speed and delivery consolidations	4	3	2	1	2	3	36	
Noise - Operations	Generator of the piggery running during load shedding	6	4	2	2	4	4	72		72	Negative	As and when regular ESKOM power becomes available the generator will no longer be required	2	3	2	2	1	1	10	
Smells / odours	Smells from the piggery may be unpleasant into the adjoining environment											Strict cleaning protocols are in place, with all manure processed along with waste streams from the operation, fed into the biosystem. Regular disinfection will eliminate smells developing								
		6	3	2	2	3	4	64		64	Negative		4	3	2	1	2	3	36	
Flies	Flies breeding due to wet manure and stock piles of waste on site	8	3	2	2	3	3	54		54	Negative	Remove manure, process with waste streams, no stock piles allowed.	4	3	2	1	2	2	24	
Unwanted Elements into the area	The need for labour at the abattoir will bring in more "unwanted" elements to the area											The area is hard pressed for employment and the abattoir will provide much need employment and training opportunities								
		4	4	2	2	1	2	26		26	Negative		2	4	2	1	1	1	10	
Road damage	Vehicles will damage the roads											Restrict speed, utilise tarred road and not gravel where possible, consolidate deliveries to one vehicle where possible and avoid gravel roads as far as possible								
		6	3	3	3	3	3	54		54	Negative		4	3	3	2	2	2	28	
Animal Health & Wellbeing	Reducing stress and strain on chickens being processed											Slaughter to comply with regulations and directives. Increase ventilation, dim lights result in a calmer atmosphere								
		4	4	1	1	2	4	48		48	Negative		2	3	1	1	3	1	10	
Water	Abstraction of water from borehole may impact the water table of the area	6	4	2	3	3	3	54		54	Negative	Agriculture, water is strictly controlled and no excessive water is taken for any other purposes than the operation.	2	3	2	2	2	2	22	
Animal Waste	Can attract and breed fleis and cause bad smells											Waste is scraped and sprayed down daily and the area disinfected and cleaned on a regular basis in rder to minimised odours and flies								
		6	4	3	2	3	4	72		72	Negative		2	3	3	2	2	2	24	
Employment	Employment is important for the local economy											Employment of local labour is preferred as the area is short of opportunities, however due to automation there will be no large workforce.								
		4	3	2	0	3	3	36		36	Positive		4	3	2	0	2	3	33	
Food	Food security	8	3	3	1	3	3	54		54	Positive	Additional fresh meat to the market and a better supply in the food security chain of the country	6	4	4	0	3	2	34	
Coal	No use of coal on site	8	3	2	3	4	4	80		80	Negative	Provide a bunker with a concrete floor and roof to stop water ingress	2	3	1	2	3	2	22	
Bottom Ash	No bottom ash	6	3	2	3	3	3	51		51	Negative	Ash to be containerised and disposed at an approved landfill site	2	2	2	1	2	2	18	