IMPACT DESCRIPTION				Pre-Mitigation						Post Mitigation							Priority Factor Criteria					
									Pre-							Post-						
Impost	Altomativa	Dhoos	Noture	Extent	Duration	Magnituda	Dovoroihility	Drobobility	mitigation	Noturo	Extent	Duration	Magnituda	Bouoroihilitu	Drohobility	mitigation	Confidence	Cumulative	Irreplaceab	Priority	Final agora	
Impact Poor housekeeping, will result in the deterioration of water quality	Alternative	Phase	Nature	Extent	Duration	wagnitude	Reversibility	Probability	ER	Nature	Extent	Duration	wagnitude	Reversibility	Probability	ER	Confidence	Impact	le loss	Factor	Final score	
increase in E coli resulting in potential health effects	Alternative 1	Construction	-1	3	4	4	1	3 4	-14	-1	1		3	2	2	-4	High	1	1	1.00	-4	
Local spillages of oils from construction vehicles and machinery	, atomativo 1	Construction										-			-		. iigii		· · ·	1,00		
leading to groundwater contamination.	Alternative 1	Construction	-1	1	2	2	3	3 3	-6	-1	1	2	2 2	2	2	-3,5	High	1	1	1,00	-3,5	
Increase in silt load in runoff due to site clearing, grubbing and the																	, i i i i i i i i i i i i i i i i i i i					
removal of topsoil from the construction footprint area.	Alternative 1	Construction	-1	1	2	3	2	2 3	-6	-1	1	2	2 1	1	2	-2,5	High	2	1	1,13	-2,8125	
Disturbance of the area may release suspended solids into the river														_								
during the construction of the temporary earth berm	Alternative 1	Construction	-1	2	4	3	4	4 4	-13	-1	2	2	2 3	2	2	-4,5	Low	2	1	1,13	-5,0625	
Vegetation clearance may result in loss of raunal habitat ecological																						
structure, species diversity and loss of species of conservation	Alternative 1	Construction	-1	1	2	1		3 3	-35	-1	1		1	2	1	-15	Low	1	1	1.00	-15	
Potential spreading of alien invasive species as indigenous vegetation	Alternative 1	Construction		· · ·	2		,	-	0,0							-1,0	2011			1,00	1,5	
is removed, and pioneer alien species are provided with a chance to																						
flourish.	Alternative 1	Construction	-1	2	4	3	2	2 3	-8,25	-1	2	4	4 2	2	2	-5	Medium	1	1	1,00	-5	
Possible increase in dust generation, PM10 and PM2.5 because of																						
bulk earthworks, operation of heavy machinery, and material																						
movement.	Alternative 1	Construction	-1	1	2	3	1	1 4	-7	-1	1	1	2	1	2	-2,5	High	1	1	1,00	-2,5	
Loss of vegetation species including vegetation species of																0.75				4.00	0.75	
conservational concern due to site clearance.	Alternative 1	Construction	-1	2	5	3	2	3 4	-13	-1	2		1	3	1	-2,75	Medium	1	1	1,00	-2,75	
The use of vehicles and machinery during the construction phase	Alternative 1	Construction	-1	2	1	4		1 /	-8	-1	2		2	1	3	-4.5	Medium	1	1	1.00	-4.5	
Localised clearing of vegetation and compaction of the construction	Alternative 1	Construction		2		-		-	0		~					-,,,	wicdiam			1,00	4,5	
footprint will result in the soils being particularly more vulnerable to																						
soil erosion.	Alternative 1	Construction	-1	2	3	3		3 4	-11	-1	1	2	2 3	2	3	-6	High	1	1	1,00	-6	
Poor waste management will result in the contamination of surface																						
runoff resulting in the deterioration of water quality of the																						
watercourse.	Alternative 1	Construction	-1	3	2	3	3	3 4	-11	-1	2	1	1	2	2	-3	Medium	1	1	1,00	-3	
Impacts on heritage resource	Alternative 1	Construction	-1	1	2	1	3	3 2	-3,5	-1	1	2	2 1	2	1	-1,5	Low	1	1	1,00	-1,5	
Potential leakage of sewage water may result in nuisance odor and																						
area	Alternative 1	Operation	-1	4	2			3	-13	-1	2		2	2	2	-3.5	Low	1	1	1.00	-3.5	
Erosion of the riverbeds and banks may result in siltation of the Vaal	Alternative 1	operation						-	10		~					. 0,0	2011			1,00	0,0	
River	Alternative 1	Operation	-1	3	5	3	3	3 4	-14	-1	2	5	5 1	2	2	-5	Medium	1	1	1.00	-5	
Disturbances to or removal of vegetation whilst accessing																						
infrastructure to carry out maintenance activities may result in																						
potential loss to indigenous vegetation and further proliferation of																						
alien floral species.	Alternative 1	Operation	-1	3	2	2	3	3 3	-7,5	-1	2	1	1	1	1	-1,25	Low	1	1	1,00	-1,25	
The use of venicles and machinery during maintenance and/repair	Alternative 1	Operation	4							1	2					2.5	Madium	1	1	1.00	25	
Potential leakage of the proposed slurry pipeline and into the Vaal	Alternative	Operation	-1	3	2			-		-1	2			· · · ·	2	-2,0	weaturn	· · · ·	· · ·	1,00	-2,5	
River and associated riparian zone because of maintenance																						
activities;	Alternative 1	Operation	-1	5	4	5		4 4	-18	-1	5	4	۱ 5	4	1	-4,5	Medium	1	1	1,00	-4,5	
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