SIGNIFICANCE RATING SCALE

Rating		Description
5	VERY HIGH	Of the highest order possible within the bounds of impacts which could occur. In the case of adverse impacts: there is no possible mitigation and/or remedial activity which could offset the impact. In the case of beneficial impacts, there is no real alternative to achieving this benefit.
4	HIGH	Impact is of substantial order within the bounds of impacts, which could occur. In the case of adverse impacts: mitigation and/or remedial activity is feasible but difficult, expensive, time-consuming or some combination of these. In the case of beneficial impacts, other means of achieving this benefit are feasible but they are more difficult, expensive, time-consuming or some combination of these.
3	MODERATE	Impact is real but not substantial in relation to other impacts, which might take effect within the bounds of those which could occur. In the case of adverse impacts: mitigation and/or remedial activity are both feasible and fairly easily possible. In the case of beneficial impacts: other means of achieving this benefit are about equal in time, cost, effort, etc.
2	LOW	Impact is of a low order and therefore likely to have little real effect. In the case of adverse impacts: mitigation and/or remedial activity is either easily achieved or little will be required, or both. In the case of beneficial impacts, alternative means for achieving this benefit are likely to be easier, cheaper, more effective, less time consuming, or some combination of these.
1	VERY LOW	Impact is negligible within the bounds of impacts which could occur. In the case of adverse impacts, almost no mitigation and/or remedial activity is needed, and any minor steps which might be needed are easy, cheap, and simple. In the case of beneficial impacts, alternative means are almost all likely to be better, in one or a number of ways, than this means of achieving the benefit. Three additional categories must also be used where relevant. They are in addition to the category represented on the scale, and if used, will replace the scale.
0	NO IMPACT	There is no impact at all - not even a very low impact on a party or system.

Impact Risk = (SIGNIFICANCE + Spatial + Temporal) / 3 X Probability / 5

Rating	Impact class	Description
0.1 – 1.0	**1**	**Very Low**
1.1 – 2.0	**2**	**Low**
2.1 – 3.0	**3**	**Moderate**
3.1 – 4.0	**4**	**High**
4.1 – 5.0	**5**	**Very High**

SPATIAL RATING SCALE

Rating		Description
5	Global/National	The maximum extent of any impact.
4	Regional/Provincial	The spatial scale is moderate within the bounds of impacts possible, and will be felt at a regional scale (District Municipality to Provincial Level).
3	Local	The impact will affect an area up to 5 km from the proposed route corridor.
2	Study Area	The impact will affect a route corridor not exceeding the boundary of the corridor.
1	Isolated Sites / proposed site	The impact will affect an area no bigger than the servitude.

TEMPORAL RATING SCALE (DURATION)

Rating		Description
1	Incidental	The impact will be limited to isolated incidences that are expected to occur very sporadically.
2	Short-term	The environmental impact identified will operate for the duration of the construction phase or a period of less than 5 years, whichever is the greater.
3	Medium term	The environmental impact identified will operate for the duration of life of the line.
4	Long term	The environmental impact identified will operate beyond the life of operation.
5	Permanent	The environmental impact will be permanent.

DEGREE OF PROBABILITY

Rating	Description
1	Practically impossible
2	Unlikely
3	Could happen
4	Very Likely
5	It's going to happen / has occurred

DEGREE OF CERTAINTY

Rating	Description
Definite	More than 90% sure of a particular fact.
Probable	Between 70 and 90% sure of a particular fact, or of the likelihood of that impact occurring.
Possible	Between 40 and 70% sure of a particular fact or of the likelihood of an impact occurring.
Unsure	Less than 40% sure of a particular fact or the likelihood of an impact occurring.
Can't know	The consultant believes an assessment is not possible even with additional research.

ALTERNATIVE:

ENVIRONMENTAL ELEMENT		Site 1							Site 3A + 3B							"No-Go"						
		Risdual Direction of Impact	Residual Degree of Certainty	**Project Impact** - Unmitigated	**Project Impact** - Mitigated	**Status Quo** Baseline Impact	**Cumulative Impact**	**Residual Impact**	Risdual Direction of Impact	Residual Degree of Certainty	**Project Impact** - Unmitigated	**Project Impact** - Mitigated	**Status Quo** Baseline Impact	**Cumulative Impact**	**Residual Impact**	Risdual Direction of Impact	Residual Degree of Certainty	**Project Impact** - Unmitigated	**Project Impact** - Unmitigated	**Status Quo** Baseline Impact	**Cumulative Impact**	**Residual Impact**
CODE:																						
	CLOSURE PHASE																					
G-3	Geology	Negative	Probable	0	0	3.7	3.7	3.7	Negative	Probable	0	0	3.7	3.7	3.7			0	0	3.7	3.7	3.7
				NO	NO	HIGH	HIGH	HIGH			NO	NO	HIGH	HIGH	HIGH			NO	NO	HIGH	HIGH	HIGH
T-3	Topography	Negative	Probable	1.6	3	3.7	3.3	2.7	Negative	Probable	1.6	3	3.7	3.7	2.9			0	0	3.7	3.3	2.7
				LOW	MOD	HIGH	HIGH	MOD			LOW	MOD	HIGH	HIGH	MOD			NO	NO	HIGH	HIGH	MOD
SLC-3	Soil and Land Capability	Negative	Probable	1.9	0.6	3	3.7	3.3	Negative	Probable	2.1	0.6	3	3.7	3.7			0	0	3	3	3
				LOW	VLOW	MOD	HIGH	HIGH			MOD	VLOW	MOD	HIGH	HIGH			NO	NO	MOD	MOD	MOD
SWW-3	Surface Water and Wetlands	Negative	Probable	1.2	0.5	3.7	3.7	2.7	Negative	Probable	1.5	0.6	3.7	3.7	2.7			0	0	3.7	3.7	3.7
				LOW	VLOW	HIGH	HIGH	MOD			LOW	VLOW	HIGH	HIGH	MOD			NO	NO	HIGH	HIGH	HIGH
GW-3	Groundwater	Negative	Probable	1.1	0.5	3	3.3	3	Negative	Probable	1.1	0.5	3	3.3	3			0	0	3	3	3
				LOW	VLOW	MOD	HIGH	MOD			LOW	VLOW	MOD	HIGH	MOD			NO	NO	MOD	MOD	MOD
TE-3	Terrestrial Ecology *(The direction of the project impact is positive, although the residual impact remains negative)*	Negative	Probable	1	1.5	3	3	2.7	Negative	Probable	1	1.5	3	3.3	3			0	0	3	3	3
				VLOW	LOW	MOD	MOD	MOD			VLOW	LOW	MOD	HIGH	MOD			NO	NO	MOD	MOD	MOD
AF-3	Avifauna	Negative	Definite	0	0	3	3	3	Negative	Definite	0	0	3	3	3			0	0	3	3	3
				NO	NO	MOD	MOD	MOD			NO	NO	MOD	MOD	MOD			NO	NO	MOD	MOD	MOD
AQ-3	Air Quality	Negative	Possible	1.3	0.8	3.3	3.3	2.7	Negative	Possible	1.3	0.8	3.3	3.3	2.7			0	0	3.3	3.3	2.7
				LOW	VLOW	HIGH	HIGH	MOD			LOW	VLOW	HIGH	HIGH	MOD			NO	NO	HIGH	HIGH	MOD
N-3	Noise	Negative	Probable	0	0	2.7	2.3	2.3	Negative	Probable	0	0	2.7	2.3	2.3			0	0	2.7	2.7	2.7
				NO	NO	MOD	MOD	MOD			NO	NO	MOD	MOD	MOD			NO	NO	MOD	MOD	MOD
SOC-3	Social Environment	Positive	Probable	0	0	2.7	2.7	1.8	Positive	Probable	0	0	2.7	2.7	1.8	Negative	Definite	0	0	2.7	4.7	4.7
				NO	NO	MOD	MOD	LOW			NO	NO	MOD	MOD	LOW			NO	NO	MOD	VHIGH	VHIGH
EC-3	Economic	Positive	Definite	0	0	2.7	3	1.8	Positive	Definite	0	0	2.7	2.4	2.4	Negative	Definite	0	0	2.7	4.7	4.7
				NO	NO	MOD	MOD	LOW			NO	NO	MOD	MOD	MOD			NO	NO	MOD	VHIGH	VHIGH
INF-3	Infrastructure	Negative	Definite	0	0	2.7	4.3	2.7	Negative	Definite	0	0	2.7	4.3	2.7			0	0	2.7	2.7	2.7
				NO	NO	MOD	VHIGH	MOD			NO	NO	MOD	VHIGH	MOD			NO	NO	MOD	MOD	MOD
V-3	Visual	Negative	Probable	0.7	3.3	3.7	3.7	2.7	Negative	Probable	0.3	3.3	3.7	3.7	3.3			0	0	3.7	3.7	3.3
				VLOW	HIGH	HIGH	HIGH	MOD			VLOW	HIGH	HIGH	HIGH	HIGH			NO	NO	HIGH	HIGH	HIGH
ArCH-3	Archaeology, Palaeongology, Cultural Heritage	No Impact	Definite	0	0	0	0	0	No Impact	Definite	0	0	0	0	0			0	0	0	0	0
				NO	NO	NO	NO	NO			NO	NO	NO	NO	NO			NO	NO	NO	NO	NO

Rated By: *Warren Kok*

Reviewed By:

ALTERNATIVES:

	IMPACT DESCRIPTION	Direction of Impact	Degree of Certainty	Site 1						Site 3A + 3B						"NO-GO"					
				Weighting	Magnatude	Spatial	Temporal	Probability	**Impact Risk**	Weighting	Magnatude	Spatial	Temporal	Probability	**Impact Risk**	Weighting	Magnatude	Spatial	Temporal	Probability	**Impact Risk**
G-3	*Geology*																				
	CLOSURE PHASE			5						5						5					
Impact 1	NO ADDITIONAL IMPACT	No Impact	Definite	1	0				**0**	1	0				**0**	1	0				**0**
					NO				**NO**		NO				**NO**		NO				**NO**
Mitigation Measure:	*None Required*				0				**0**		0				**0**		0				**0**
					NO				**NO**		NO				**NO**		NO				**NO**
COMBINED WEIGHTED RATING	**BEFORE MITIGATION**	No Impact	Definite		0	0	0	0	**0**		0	0	0	0	**0**		0	0	0	0	**0**
					NO	#N/A	#N/A	#N/A	**NO**		NO	#N/A	#N/A	#N/A	**NO**		NO	#N/A	#N/A	#N/A	**NO**
	AFTER MITIGATION *(If mitigation is effective / possible this rating wil decrease)*	No Impact	Definite		0	0	0	0	**0**		0	0	0	0	**0**		0	0	0	0	**0**
					NO	#N/A	#N/A	#N/A	**NO**		NO	#N/A	#N/A	#N/A	**NO**		NO	#N/A	#N/A	#N/A	**NO**
STATUS QUO	INITIAL BASELINE IMPACTS TO ENVIRONMENT	Negative	Probable		3	3	5	5	**3.7**		3	3	5	5	**3.7**		3	3	5	5	**3.7**
					MOD	LOCAL	PERM	OCCUR	**HIGH**		MOD	LOCAL	PERM	OCCUR	**HIGH**		MOD	LOCAL	PERM	OCCUR	**HIGH**
CUMULATIVE IMPACT	INITIAL IMPACTS TO ENVIRONMENT + ADDITIONAL IMPACTS FROM PROJECT, **BEFORE MITIGATION**	Negative	Probable		3	3	5	5	**3.7**		3	3	5	5	**3.7**		3	3	5	5	**3.7**
					MOD	LOCAL	PERM	OCCUR	**HIGH**		MOD	LOCAL	PERM	OCCUR	**HIGH**		MOD	LOCAL	PERM	OCCUR	**HIGH**
RESIDUAL IMPACT	INITIAL IMPACTS TO ENVIRONMENT + ADDITIONAL IMPACTS FROM PROJECT, **AFTER MITIGATION**	Negative	Probable		3	3	5	5	**3.7**		3	3	5	5	**3.7**		3	3	5	5	**3.7**
					MOD	LOCAL	PERM	OCCUR	**HIGH**		MOD	LOCAL	PERM	OCCUR	**HIGH**		MOD	LOCAL	PERM	OCCUR	**HIGH**

Rated By: *Warren Kok*

Reviewed By:

ALTERNATIVES:

	IMPACT DESCRIPTION	Direction of Impact	Degree of Certainty	Site 1						Site 3A + 3B						"NO-GO"					
				Weighting	Magnatude	Spatial	Temporal	Probability	**Impact Risk**	Weighting	Magnatude	Spatial	Temporal	Probability	**Impact Risk**	Weighting	Magnatude	Spatial	Temporal	Probability	**Impact Risk**
T-3	*Topography*																				
	CLOSURE PHASE			5						5						5					
Impact 1	Alteration of surface water drainage patterns - stormwater runoff from rehabilitated areas	Positive	Probable	5	2	2	4	3	**1.6**	5	2	2	4	3	**1.6**	1	0				**0**
					LOW	STUDY	LONG	COULD	**LOW**		LOW	STUDY	LONG	COULD	**LOW**		NO				**NO**
Mitigation Measure:	*Ensure suitable soil cover, vegetation covers, free draining areas, storm water attentuation, Regular surveying during profiling*				3	2	4	5	**3**		3	2	4	5	**3**		0				**0**
					MOD	STUDY	LONG	OCCUR	**MOD**		MOD	STUDY	LONG	OCCUR	**MOD**		NO				**NO**
COMBINED WEIGHTED RATING	**BEFORE MITIGATION**	Positive	Probable		2	2	4	3	**1.6**		2	2	4	3	**1.6**		0	0	0	0	**0**
					LOW	STUDY	LONG	COULD	**LOW**		LOW	STUDY	LONG	COULD	**LOW**		NO	#N/A	#N/A	#N/A	**NO**
	AFTER MITIGATION *(If mitigation is effective / possible this rating wil decrease)*	Positive	Probable		3	2	4	5	**3**		3	2	4	5	**3**		0	0	0	0	**0**
					MOD	STUDY	LONG	OCCUR	**MOD**		MOD	STUDY	LONG	OCCUR	**MOD**		NO	#N/A	#N/A	#N/A	**NO**
STATUS QUO	INITIAL IMPACTS TO ENVIRONMENT	Negative	Definite		3	3	5	5	**3.7**		3	3	5	5	**3.7**		3	3	5	5	**3.7**
					MOD	LOCAL	PERM	OCCUR	**HIGH**		MOD	LOCAL	PERM	OCCUR	**HIGH**		MOD	LOCAL	PERM	OCCUR	**HIGH**
CUMULATIVE IMPACT	INITIAL IMPACTS TO ENVIRONMENT + ADDITIONAL IMPACTS FROM PROJECT, **BEFORE MITIGATION**	Negative	Probable		2	3	5	5	**3.3**		3	3	5	5	**3.7**		2	3	5	5	**3.3**
					LOW	LOCAL	PERM	OCCUR	**HIGH**		MOD	LOCAL	PERM	OCCUR	**HIGH**		LOW	LOCAL	PERM	OCCUR	**HIGH**
RESIDUAL IMPACT	INITIAL IMPACTS TO ENVIRONMENT + ADDITIONAL IMPACTS FROM PROJECT, **AFTER MITIGATION**	Negative	Probable		2	3	5	4	**2.7**		3	3	5	4	**2.9**		2	3	5	4	**2.7**
					LOW	LOCAL	PERM	VLIKE	**MOD**		MOD	LOCAL	PERM	VLIKE	**MOD**		LOW	LOCAL	PERM	VLIKE	**MOD**

Rated By: *Warren Kok*

Reviewed By:

ALTERNATIVES:

	IMPACT DESCRIPTION	Direction of Impact	Degree of Certainty	Site 1						Site 3A + 3B						"NO-GO"					
				Weighting	Magnatude	Spatial	Temporal	Probability	**Impact Risk**	Weighting	Magnatude	Spatial	Temporal	Probability	**Impact Risk**	Weighting	Magnatude	Spatial	Temporal	Probability	**Impact Risk**
SLC-3	*Soil and Land Capability*																				
	CLOSURE PHASE			5						5						5					
Impact 1	Pollution of soils - hydrocarbon / chemical spills, spills from pipelines during rehabilitation	Negative	Definite	5	2	1	5	5	**2.7**	5	3	1	5	5	**3**	1	0				**0**
					LOW	ISO	PERM	OCCUR	**MOD**		MOD	ISO	PERM	OCCUR	**MOD**		NO				**NO**
Mitigation Measure:	*Hydrocarbon and Chemical Management*				1	1	1	3	**0.6**		2	1	1	3	**0.8**		0				**0**
					VLOW	ISO	INCID	COULD	**VLOW**		LOW	ISO	INCID	COULD	**VLOW**		NO				**NO**
Impact 2	Erosion of soils	Negative	Definite	3	3	1	5	5	**3**	3	4	1	5	5	**3.3**		0				**0**
					MOD	ISO	PERM	OCCUR	**MOD**		HIGH	ISO	PERM	OCCUR	**HIGH**		NO				**NO**
Mitigation Measure:	*Fertilize soils prior to seeding, Water seeded areas, ensure slopes are not steeper than 1:3, Water seeded areas*				2	1	5	3	**1.6**		3	1	5	3	**1.8**		0				**0**
					LOW	ISO	PERM	COULD	**LOW**		MOD	ISO	PERM	COULD	**LOW**		NO				**NO**
Impact 3	Low soil fertility and usability	Negative	Definite	5	3	1	4	4	**2.1**	5	3	1	4	4	**2.1**		0				**0**
					MOD	ISO	LONG	VLIKE	**MOD**		MOD	ISO	LONG	VLIKE	**MOD**		NO				**NO**
Mitigation Measure:	*Ameliorate soils prior to resuse in capping facility.*				1	1	1	2	**0.4**		1	1	1	2	**0.4**		0				**0**
					VLOW	ISO	INCID	UNLIKE	**VLOW**		VLOW	ISO	INCID	UNLIKE	**VLOW**		NO				**NO**
COMBINED WEIGHTED RATING	**BEFORE MITIGATION**	Negative	Definite		2.3	0.9	4	4	**1.9**		2.8	0.9	4	4	**2.1**		0	0	0	0	**0**
					MOD	ISO	LONG	VLIKE	**LOW**		MOD	ISO	LONG	VLIKE	**MOD**		NO	#N/A	#N/A	#N/A	**NO**
	AFTER MITIGATION *(If mitigation is effective / possible this rating wil decrease)*	Negative	Definite		1.1	0.9	1.7	2.3	**0.6**		1.6	0.9	1.7	2.3	**0.6**		0	0	0	0	**0**
					LOW	ISO	SHORT	COULD	**VLOW**		LOW	ISO	SHORT	COULD	**VLOW**		NO	#N/A	#N/A	#N/A	**NO**
STATUS QUO	INITIAL BASELINE IMPACTS TO ENVIRONMENT	Negative	Probable		2	2	5	5	**3**		2	2	5	5	**3**		2	2	5	5	**3**
					LOW	STUDY	PERM	OCCUR	**MOD**		LOW	STUDY	PERM	OCCUR	**MOD**		LOW	STUDY	PERM	OCCUR	**MOD**
CUMULATIVE IMPACT	INITIAL IMPACTS TO ENVIRONMENT + ADDITIONAL IMPACTS FROM PROJECT, **BEFORE MITIGATION**	Negative	Probable		4	2	5	5	**3.7**		4	2	5	5	**3.7**		2	2	5	5	**3**
					HIGH	STUDY	PERM	OCCUR	**HIGH**		HIGH	STUDY	PERM	OCCUR	**HIGH**		LOW	STUDY	PERM	OCCUR	**MOD**
RESIDUAL IMPACT	INITIAL IMPACTS TO ENVIRONMENT + ADDITIONAL IMPACTS FROM PROJECT, **AFTER MITIGATION**	Negative	Probable		3	2	5	5	**3.3**		4	2	5	5	**3.7**		2	2	5	5	**3**
					MOD	STUDY	PERM	OCCUR	**HIGH**		HIGH	STUDY	PERM	OCCUR	**HIGH**		LOW	STUDY	PERM	OCCUR	**MOD**

Rated By: *Warren Kok*

Reviewed By:

ALTERNATIVES:

IMPACT DESCRIPTION		Direction of Impact	Degree of Certainty	Site 1						Site 3A + 3B						"NO-GO"					
				Weighting	Magnatude	Spatial	Temporal	Probability	**Impact Risk**	Weighting	Magnatude	Spatial	Temporal	Probability	**Impact Risk**	Weighting	Magnatude	Spatial	Temporal	Probability	**Impact Risk**
SWW-3	*Surface Water and Wetlands*																				
	CLOSURE PHASE			5						5						5					
Impact 1	Decreased water quality (suspended solids, turbidity, hydro-carbon, chemical, and microbiological)	Negative	Definite	5	2	2	4	4	**2.1**	5	3	3	4	5	**3.3**	1	0				**0**
					LOW	STUDY	LONG	VLIKE	**MOD**		MOD	LOCAL	LONG	OCCUR	**HIGH**		NO				**NO**
Mitigation Measure:	*Rehab of unnecessary infrastructure, Water treatment of De Jager's Pan, Slope not exceed 1:3*				1	1	1	4	**0.8**		2	2	1	4	**1.3**		0				**0**
					VLOW	ISO	INCID	VLIKE	**VLOW**		LOW	STUDY	INCID	VLIKE	**LOW**		NO				**NO**
Impact 2	Reduction in habitat integrity of downstream wetland areas	Negative	Probable	3	3	2	4	4	**2.4**	3	3	2	4	4	**2.4**		0				**0**
					MOD	STUDY	LONG	VLIKE	**MOD**		MOD	STUDY	LONG	VLIKE	**MOD**		NO				**NO**
Mitigation Measure:	*Fertilise topsoil, Indigenous Seeding, Water rehabed areas*				1	1	4	4	**1.6**		1	1	4	4	**1.6**		0				**0**
					VLOW	ISO	LONG	VLIKE	**LOW**		VLOW	ISO	LONG	VLIKE	**LOW**		NO				**NO**
Impact 3	Sedimentation of wetlands and surface water resources	Negative	Probable	3	2	2	2	5	**2**	3	2	2	2	5	**2**		0				**0**
					LOW	STUDY	SHORT	OCCUR	**LOW**		LOW	STUDY	SHORT	OCCUR	**LOW**		NO				**NO**
Mitigation Measure:	*Fertilise topsoil, Indigenous Seeding, Water rehabed areas*				1	1	1	2	**0.4**		1	1	1	2	**0.4**		0				**0**
					VLOW	ISO	INCID	UNLIKE	**VLOW**		VLOW	ISO	INCID	UNLIKE	**VLOW**		NO				**NO**
COMBINED WEIGHTED RATING	**BEFORE MITIGATION**	Negative	Probable		1.7	1.5	2.5	3.1	**1.2**		2	1.8	2.5	3.5	**1.5**		0	0	0	0	**0**
					LOW	STUDY	MED	VLIKE	**LOW**		LOW	STUDY	MED	VLIKE	**LOW**		NO	#N/A	#N/A	#N/A	**NO**
	AFTER MITIGATION *(If mitigation is effective / possible this rating wil decrease)*	Positive	Definite		0.7	0.7	1.3	2.5	**0.5**		1.1	1.1	1.3	2.5	**0.6**		0	0	0	0	**0**
					VLOW	ISO	SHORT	COULD	**VLOW**		LOW	STUDY	SHORT	COULD	**VLOW**		NO	#N/A	#N/A	#N/A	**NO**
STATUS QUO	INITIAL BASELINE IMPACTS TO ENVIRONMENT	Negative	Probable		4	3	4	5	**3.7**		4	3	4	5	**3.7**		4	3	4	5	**3.7**
					HIGH	LOCAL	LONG	OCCUR	**HIGH**		HIGH	LOCAL	LONG	OCCUR	**HIGH**		HIGH	LOCAL	LONG	OCCUR	**HIGH**
CUMULATIVE IMPACT	INITIAL IMPACTS TO ENVIRONMENT + ADDITIONAL IMPACTS FROM PROJECT, **BEFORE MITIGATION**	Negative	Probable		4	3	4	5	**3.7**		4	3	4	5	**3.7**		4	3	4	5	**3.7**
					HIGH	LOCAL	LONG	OCCUR	**HIGH**		HIGH	LOCAL	LONG	OCCUR	**HIGH**		HIGH	LOCAL	LONG	OCCUR	**HIGH**
RESIDUAL IMPACT	INITIAL IMPACTS TO ENVIRONMENT + ADDITIONAL IMPACTS FROM PROJECT, **AFTER MITIGATION**	Negative	Probable		3	3	4	4	**2.7**		3	3	4	4	**2.7**		4	3	4	5	**3.7**
					MOD	LOCAL	LONG	VLIKE	**MOD**		MOD	LOCAL	LONG	VLIKE	**MOD**		HIGH	LOCAL	LONG	OCCUR	**HIGH**

Rated By: *Warren Kok*

Reviewed By:

ALTERNATIVES:

	IMPACT DESCRIPTION	Direction of Impact	Degree of Certainty	Site 1						Site 3A + 3B						"NO-GO"					
				Weighting	Magnatude	Spatial	Temporal	Probability	**Impact Risk**	Weighting	Magnatude	Spatial	Temporal	Probability	**Impact Risk**	Weighting	Magnatude	Spatial	Temporal	Probability	**Impact Risk**
GW-3	*Groundwater*																				
	CLOSURE PHASE			5						5						5					
Impact 1	Decreased water quality - hydrocarbon / chemicals used on site during the closure phase	Negative	Definite	5	2	1	4	3	**1.4**	5	2	1	4	3	**1.4**	1	0				**0**
					LOW	ISO	LONG	COULD	**LOW**		LOW	ISO	LONG	COULD	**LOW**		NO				**NO**
Mitigation Measure:	*Hydrocarbon / Chemical Management*				1	1	1	2	**0.4**		1	1	1	2	**0.4**		0				**0**
					VLOW	ISO	INCID	UNLIKE	**VLOW**		VLOW	ISO	INCID	UNLIKE	**VLOW**		NO				**NO**
Impact 2	Surface water ingress into the ash body producing polluted ground water	Negative	Probable	3	3	1	4	4	**2.1**	3	3	1	4	4	**2.1**		0				**0**
					MOD	ISO	LONG	VLIKE	**MOD**		MOD	ISO	LONG	VLIKE	**MOD**		NO				**NO**
Mitigation Measure:	*Topsoil layer >300mm, Sustainable Indigenous Vegetation Cover*				2	2	4	3	**1.6**		2	2	4	3	**1.6**		0				**0**
					LOW	STUDY	LONG	COULD	**LOW**		LOW	STUDY	LONG	COULD	**LOW**		NO				**NO**
COMBINED WEIGHTED RATING	**BEFORE MITIGATION**	Negative	Probable		1.9	0.8	3.2	2.7	**1.1**		1.9	0.8	3.2	2.7	**1.1**		0	0	0	0	**0**
					LOW	ISO	LONG	COULD	**LOW**		LOW	ISO	LONG	COULD	**LOW**		NO	#N/A	#N/A	#N/A	**NO**
	AFTER MITIGATION *(If mitigation is effective / possible this rating wil decrease)*	Negative	Definite		1.1	1.1	1.7	1.9	**0.5**		1.1	1.1	1.7	1.9	**0.5**		0	0	0	0	**0**
					LOW	STUDY	SHORT	UNLIKE	**VLOW**		LOW	STUDY	SHORT	UNLIKE	**VLOW**		NO	#N/A	#N/A	#N/A	**NO**
STATUS QUO	INITIAL BASELINE IMPACTS TO ENVIRONMENT	Negative	Probable		2	3	4	5	**3**		2	3	4	5	**3**		2	3	4	5	**3**
					LOW	LOCAL	LONG	OCCUR	**MOD**		LOW	LOCAL	LONG	OCCUR	**MOD**		LOW	LOCAL	LONG	OCCUR	**MOD**
CUMULATIVE IMPACT	INITIAL IMPACTS TO ENVIRONMENT + ADDITIONAL IMPACTS FROM PROJECT, **BEFORE MITIGATION**	Negative	Probable		3	3	4	5	**3.3**		3	3	4	5	**3.3**		2	3	4	5	**3**
					MOD	LOCAL	LONG	OCCUR	**HIGH**		MOD	LOCAL	LONG	OCCUR	**HIGH**		LOW	LOCAL	LONG	OCCUR	**MOD**
RESIDUAL IMPACT	INITIAL IMPACTS TO ENVIRONMENT + ADDITIONAL IMPACTS FROM PROJECT, **AFTER MITIGATION**	Negative	Probable		2	3	4	5	**3**		2	3	4	5	**3**		2	3	4	5	**3**
					LOW	LOCAL	LONG	OCCUR	**MOD**		LOW	LOCAL	LONG	OCCUR	**MOD**		LOW	LOCAL	LONG	OCCUR	**MOD**

Rated By: *Warren Kok*

Reviewed By:

ALTERNATIVES:

				Site 1						Site 3A + 3B						"NO-GO"					
IMPACT DESCRIPTION		Direction of Impact	Degree of Certainty	Weighting	Magnatude	Spatial	Temporal	Probability	**Impact Risk**	Weighting	Magnatude	Spatial	Temporal	Probability	**Impact Risk**	Weighting	Magnatude	Spatial	Temporal	Probability	**Impact Risk**
TE-3	*Terrestrial Ecology*																				
	CLOSURE PHASE			5						5						5					
Impact 1	Capping of the waste body	Positive	Probable	5	2	1	4	2	**0.9**	5	2	1	4	2	**0.9**	1	0				**0**
					LOW	ISO	LONG	UNLIKE	**VLOW**		LOW	ISO	LONG	UNLIKE	**VLOW**		NO				**NO**
Mitigation Measure:	*Alien invasive control, Ameliorate soils replaced, Indigenous seedmix*				3	1	4	5	**2.7**		3	1	4	5	**2.7**		0				**0**
					MOD	ISO	LONG	OCCUR	**MOD**		MOD	ISO	LONG	OCCUR	**MOD**		NO				**NO**
Impact 2	Increase in alien invasive species	Negative	Probable	3	3	1	4	5	**2.7**	3	3	1	4	5	**2.7**		0				**0**
					MOD	ISO	LONG	OCCUR	**MOD**		MOD	ISO	LONG	OCCUR	**MOD**		NO				**NO**
Mitigation Measure:	*Alien invasive control, Indigenous Seedmix - Rehab area*				1	1	4	5	**2**		1	1	4	5	**2**		0				**0**
					VLOW	ISO	LONG	OCCUR	**LOW**		VLOW	ISO	LONG	OCCUR	**LOW**		NO				**NO**
COMBINED WEIGHTED RATING	**BEFORE MITIGATION**	Positive	Probable		1.9	0.8	3.2	2.5	**1**		1.9	0.8	3.2	2.5	**1**		0	0	0	0	**0**
					LOW	ISO	LONG	COULD	**VLOW**		LOW	ISO	LONG	COULD	**VLOW**		NO	#N/A	#N/A	#N/A	**NO**
	AFTER MITIGATION *(If mitigation is effective / possible this rating wil decrease)*	Positive	Probable		1.8	0.8	3.2	4	**1.5**		1.8	0.8	3.2	4	**1.5**		0	0	0	0	**0**
					LOW	ISO	LONG	VLIKE	**LOW**		LOW	ISO	LONG	VLIKE	**LOW**		NO	#N/A	#N/A	#N/A	**NO**
STATUS QUO	INITIAL BASELINE IMPACTS TO ENVIRONMENT	Negative	Definite		3	2	4	5	**3**		3	2	4	5	**3**		3	2	4	5	**3**
					MOD	STUDY	LONG	OCCUR	**MOD**		MOD	STUDY	LONG	OCCUR	**MOD**		MOD	STUDY	LONG	OCCUR	**MOD**
CUMULATIVE IMPACT	INITIAL IMPACTS TO ENVIRONMENT + ADDITIONAL IMPACTS FROM PROJECT, **BEFORE MITIGATION**	Negative	Probable		3	2	4	5	**3**		4	2	4	5	**3.3**		3	2	4	5	**3**
					MOD	STUDY	LONG	OCCUR	**MOD**		HIGH	STUDY	LONG	OCCUR	**HIGH**		MOD	STUDY	LONG	OCCUR	**MOD**
RESIDUAL IMPACT	INITIAL IMPACTS TO ENVIRONMENT + ADDITIONAL IMPACTS FROM PROJECT, **AFTER MITIGATION**	Negative	Probable		2	2	4	5	**2.7**		3	2	4	5	**3**		3	2	4	5	**3**
					LOW	STUDY	LONG	OCCUR	**MOD**		MOD	STUDY	LONG	OCCUR	**MOD**		MOD	STUDY	LONG	OCCUR	**MOD**

Rated By: *Warren Kok*

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ALTERNATIVES:

	IMPACT DESCRIPTION	Direction of Impact	Degree of Certainty	Site 1						Site 3A + 3B						"NO-GO"					
				Weighting	Magnatude	Spatial	Temporal	Probability	**Impact Risk**	Weighting	Magnatude	Spatial	Temporal	Probability	**Impact Risk**	Weighting	Magnatude	Spatial	Temporal	Probability	**Impact Risk**
AF-3	*Avifauna*																				
	CLOSURE PHASE			5						5						5					
Impact 1	NO ADDITIONAL IMPACT	No Additional Impact	Definite	1	0				**0**	1	0				**0**	1	0				**0**
					NO				**NO**		NO				**NO**		NO				**NO**
Mitigation Measure:	*None Required*				0				**0**		0				**0**		0				**0**
					NO				**NO**		NO				**NO**		NO				**NO**
COMBINED WEIGHTED RATING	**BEFORE MITIGATION**	Negative	Definite		0	0	0	0	**0**		0	0	0	0	**0**		0	0	0	0	**0**
					NO	#N/A	#N/A	#N/A	**NO**		NO	#N/A	#N/A	#N/A	**NO**		NO	#N/A	#N/A	#N/A	**NO**
	AFTER MITIGATION *(If mitigation is effective / possible this rating wil decrease)*	Negative	Definite		0	0	0	0	**0**		0	0	0	0	**0**		0	0	0	0	**0**
					NO	#N/A	#N/A	#N/A	**NO**		NO	#N/A	#N/A	#N/A	**NO**		NO	#N/A	#N/A	#N/A	**NO**
STATUS QUO	INITIAL BASELINE IMPACTS TO ENVIRONMENT	Negative	Definite		3	2	4	5	**3**		3	2	4	5	**3**		3	2	4	5	**3**
					MOD	STUDY	LONG	OCCUR	**MOD**		MOD	STUDY	LONG	OCCUR	**MOD**		MOD	STUDY	LONG	OCCUR	**MOD**
CUMULATIVE IMPACT	INITIAL IMPACTS TO ENVIRONMENT + ADDITIONAL IMPACTS FROM PROJECT, **BEFORE MITIGATION**	Negative	Definite		3	2	4	5	**3**		3	2	4	5	**3**		3	2	4	5	**3**
					MOD	STUDY	LONG	OCCUR	**MOD**		MOD	STUDY	LONG	OCCUR	**MOD**		MOD	STUDY	LONG	OCCUR	**MOD**
RESIDUAL IMPACT	INITIAL IMPACTS TO ENVIRONMENT + ADDITIONAL IMPACTS FROM PROJECT, **AFTER MITIGATION**	Negative	Definite		3	2	4	5	**3**		3	2	4	5	**3**		3	2	4	5	**3**
					MOD	STUDY	LONG	OCCUR	**MOD**		MOD	STUDY	LONG	OCCUR	**MOD**		MOD	STUDY	LONG	OCCUR	**MOD**

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ALTERNATIVES:

	IMPACT DESCRIPTION	Direction of Impact	Degree of Certainty	Site 1						Site 3A + 3B						"NO-GO"					
				Weighting	Magnatude	Spatial	Temporal	Probability	**Impact Risk**	Weighting	Magnatude	Spatial	Temporal	Probability	**Impact Risk**	Weighting	Magnatude	Spatial	Temporal	Probability	**Impact Risk**
AQ-3	*Air Quality*																				
	CLOSURE PHASE			5						5						5					
Impact 1	Greenhouse gas emissions	Negative	Possible	3	2	1	2	3	**1**	3	2	1	2	3	**1**	1	0				**0**
					LOW	ISO	SHORT	COULD	**VLOW**		LOW	ISO	SHORT	COULD	**VLOW**		NO				**NO**
Mitigation Measure:	*Reduce energy consumption, Regular vehicle maintenance, Consecutive Rehab*				1	1	1	3	**0.6**		1	1	1	3	**0.6**		0				**0**
					VLOW	ISO	INCID	COULD	**VLOW**		VLOW	ISO	INCID	COULD	**VLOW**		NO				**NO**
Impact 2	Nuisance and fall out dust	Negative	Possible	3	3	3	3	5	**3**	3	3	3	3	5	**3**		0				**0**
					MOD	LOCAL	MED	OCCUR	**MOD**		MOD	LOCAL	MED	OCCUR	**MOD**		NO				**NO**
Mitigation Measure:	*Watering to reduce dust mobilisation, Use Site 3, Revegetate stockpiles, Dust-aside / Chemical Suppressant on Roads.*				3	1	3	5	**2.3**		3	1	3	5	**2.3**		0				**0**
					MOD	ISO	MED	OCCUR	**MOD**		MOD	ISO	MED	OCCUR	**MOD**		NO				**NO**
Impact 3	Increased particulate matter (PM2.5 and PM10)	Negative	Possible	5	3	4	3	5	**3.3**	5	3	4	3	5	**3.3**		0				**0**
					MOD	REG	MED	OCCUR	**HIGH**		MOD	REG	MED	OCCUR	**HIGH**		NO				**NO**
Mitigation Measure:	*Watering to reduce dust mobilisation, Use Site 3, Revegetate stockpiles, Dust-aside / Chemical Suppressant on Roads.*				2	3	3	3	**1.6**		2	3	3	3	**1.6**		0				**0**
					LOW	LOCAL	MED	COULD	**LOW**		LOW	LOCAL	MED	COULD	**LOW**		NO				**NO**
COMBINED WEIGHTED RATING	**BEFORE MITIGATION**	Negative	Possible		2	2.1	2	3.3	**1.3**		2	2.1	2	3.3	**1.3**		0	0	0	0	**0**
					LOW	LOCAL	SHORT	VLIKE	**LOW**		LOW	LOCAL	SHORT	VLIKE	**LOW**		NO	#N/A	#N/A	#N/A	**NO**
	AFTER MITIGATION *(If mitigation is effective / possible this rating wil decrease)*	Negative	Possible		1.5	1.4	1.8	2.6	**0.8**		1.5	1.4	1.8	2.6	**0.8**		0	0	0	0	**0**
					LOW	STUDY	SHORT	COULD	**VLOW**		LOW	STUDY	SHORT	COULD	**VLOW**		NO	#N/A	#N/A	#N/A	**NO**
STATUS QUO	INITIAL BASELINE IMPACTS TO ENVIRONMENT	Negative	Possible		3	4	3	5	**3.3**		3	4	3	5	**3.3**		3	4	3	5	**3.3**
					MOD	REG	MED	OCCUR	**HIGH**		MOD	REG	MED	OCCUR	**HIGH**		MOD	REG	MED	OCCUR	**HIGH**
CUMULATIVE IMPACT	INITIAL IMPACTS TO ENVIRONMENT + ADDITIONAL IMPACTS FROM PROJECT, **BEFORE MITIGATION**	Negative	Possible		3	4	3	5	**3.3**		3	4	3	5	**3.3**		3	4	3	5	**3.3**
					MOD	REG	MED	OCCUR	**HIGH**		MOD	REG	MED	OCCUR	**HIGH**		MOD	REG	MED	OCCUR	**HIGH**
RESIDUAL IMPACT	INITIAL IMPACTS TO ENVIRONMENT + ADDITIONAL IMPACTS FROM PROJECT, **AFTER MITIGATION**	Negative	Possible		3	4	3	4	**2.7**		3	4	3	4	**2.7**		3	4	3	4	**2.7**
					MOD	REG	MED	VLIKE	**MOD**		MOD	REG	MED	VLIKE	**MOD**		MOD	REG	MED	VLIKE	**MOD**

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Reviewed By:

ALTERNATIVES:

IMPACT DESCRIPTION		Direction of Impact	Degree of Certainty	Site 1						Site 3A + 3B						"NO-GO"					
				Weighting	Magnatude	Spatial	Temporal	Probability	**Impact Risk**	Weighting	Magnatude	Spatial	Temporal	Probability	**Impact Risk**	Weighting	Magnatude	Spatial	Temporal	Probability	**Impact Risk**
N-3	*Noise*																				
	CLOSURE PHASE			5						5						5					
Impact 1	NO ADDITIONAL IMACT	No Impact	Definite	1	0				**0**	1	0				**0**	1	0				**0**
					NO				**NO**		NO				**NO**		NO				**NO**
Mitigation Measure:	*None Required.*				0				**0**		0				**0**		0				**0**
					NO				**NO**		NO				**NO**		NO				**NO**
COMBINED WEIGHTED RATING	**BEFORE MITIGATION**	No Impact	Definite		0	0	0	0	**0**		0	0	0	0	**0**		0	0	0	0	**0**
					NO	#N/A	#N/A	#N/A	**NO**		NO	#N/A	#N/A	#N/A	**NO**		NO	#N/A	#N/A	#N/A	**NO**
	AFTER MITIGATION *(If mitigation is effective / possible this rating wil decrease)*	No Impact	Definite		0	0	0	0	**0**		0	0	0	0	**0**		0	0	0	0	**0**
					NO	#N/A	#N/A	#N/A	**NO**		NO	#N/A	#N/A	#N/A	**NO**		NO	#N/A	#N/A	#N/A	**NO**
STATUS QUO	INITIAL BASELINE IMPACTS TO ENVIRONMENT	Negative	Probable		2	3	3	5	**2.7**		2	3	3	5	**2.7**		2	3	3	5	**2.7**
					LOW	LOCAL	MED	OCCUR	**MOD**		LOW	LOCAL	MED	OCCUR	**MOD**		LOW	LOCAL	MED	OCCUR	**MOD**
CUMULATIVE IMPACT	INITIAL IMPACTS TO ENVIRONMENT + ADDITIONAL IMPACTS FROM PROJECT, **BEFORE MITIGATION**	Negative	Probable		2	2	3	5	**2.3**		2	2	3	5	**2.3**		2	3	3	5	**2.7**
					LOW	STUDY	MED	OCCUR	**MOD**		LOW	STUDY	MED	OCCUR	**MOD**		LOW	LOCAL	MED	OCCUR	**MOD**
RESIDUAL IMPACT	INITIAL IMPACTS TO ENVIRONMENT + ADDITIONAL IMPACTS FROM PROJECT, **AFTER MITIGATION**	Negative	Probable		2	2	3	5	**2.3**		2	2	3	5	**2.3**		2	3	3	5	**2.7**
					LOW	STUDY	MED	OCCUR	**MOD**		LOW	STUDY	MED	OCCUR	**MOD**		LOW	LOCAL	MED	OCCUR	**MOD**

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Reviewed By:

ALTERNATIVES:

	IMPACT DESCRIPTION	Direction of Impact	Degree of Certainty	Site 1						Site 3A + 3B						"NO-GO"					
				Weighting	Magnatude	Spatial	Temporal	Probability	**Impact Risk**	Weighting	Magnatude	Spatial	Temporal	Probability	**Impact Risk**	Weighting	Magnatude	Spatial	Temporal	Probability	**Impact Risk**
SOC-3	*Social Environment*																				
	CLOSURE PHASE			5						5						5					
Impact 1	NO ADDITIONAL IMACT	No Impact	Definite	1	0				**0**	1	0				**0**	1	0				**0**
					NO				**NO**		NO				**NO**		NO				**NO**
Mitigation Measure:	*None Required.*				0				**0**		0				**0**		0				**0**
					NO				**NO**		NO				**NO**		NO				**NO**
COMBINED WEIGHTED RATING	**BEFORE MITIGATION**	No Impact	Definite		0	0	0	0	**0**		0	0	0	0	**0**		0	0	0	0	**0**
					NO	#N/A	#N/A	#N/A	**NO**		NO	#N/A	#N/A	#N/A	**NO**		NO	#N/A	#N/A	#N/A	**NO**
	AFTER MITIGATION *(If mitigation is effective / possible this rating wil decrease)*	No Impact	Definite		0	0	0	0	**0**		0	0	0	0	**0**		0	0	0	0	**0**
					NO	#N/A	#N/A	#N/A	**NO**		NO	#N/A	#N/A	#N/A	**NO**		NO	#N/A	#N/A	#N/A	**NO**
STATUS QUO	INITIAL BASELINE IMPACTS TO ENVIRONMENT	Positive	Probable		2	3	3	5	**2.7**		2	3	3	5	**2.7**		2	3	3	5	**2.7**
					LOW	LOCAL	MED	OCCUR	**MOD**		LOW	LOCAL	MED	OCCUR	**MOD**		LOW	LOCAL	MED	OCCUR	**MOD**
CUMULATIVE IMPACT	INITIAL IMPACTS TO ENVIRONMENT + ADDITIONAL IMPACTS FROM PROJECT, **BEFORE MITIGATION**	Positive	Probable		2	3	3	5	**2.7**		2	3	3	5	**2.7**	**Neg**	5	5	4	5	**4.7**
					LOW	LOCAL	MED	OCCUR	**MOD**		LOW	LOCAL	MED	OCCUR	**MOD**		VHIGH	NAT	LONG	OCCUR	**VHIGH**
RESIDUAL IMPACT	INITIAL IMPACTS TO ENVIRONMENT + ADDITIONAL IMPACTS FROM PROJECT, **AFTER MITIGATION**	Positive	Probable		2	3	4	3	**1.8**		2	3	4	3	**1.8**	**Neg**	5	5	4	5	**4.7**
					LOW	LOCAL	LONG	COULD	**LOW**		LOW	LOCAL	LONG	COULD	**LOW**		VHIGH	NAT	LONG	OCCUR	**VHIGH**

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ALTERNATIVES:

	IMPACT DESCRIPTION	Direction of Impact	Degree of Certainty	Site 1						Site 3A + 3B						"NO-GO"					
				Weighting	Magnatude	Spatial	Temporal	Probability	**Impact Risk**	Weighting	Magnatude	Spatial	Temporal	Probability	**Impact Risk**	Weighting	Magnatude	Spatial	Temporal	Probability	**Impact Risk**
EC-3	*Economic*																				
	CLOSURE PHASE			5						5						5					
Impact 1	NO ADDITIONAL IMACT	No Impact	Definite	1	0				**0**	1	0				**0**	1	0				**0**
					NO				**NO**		NO				**NO**		NO				**NO**
Mitigation Measure:	*None Required.*				0				**0**		0				**0**		0				**0**
					NO				**NO**		NO				**NO**		NO				**NO**
COMBINED WEIGHTED RATING	**BEFORE MITIGATION**	No Impact	Definite		0	0	0	0	**0**		0	0	0	0	**0**		0	0	0	0	**0**
					NO	#N/A	#N/A	#N/A	**NO**		NO	#N/A	#N/A	#N/A	**NO**		NO	#N/A	#N/A	#N/A	**NO**
	AFTER MITIGATION *(If mitigation is effective / possible this rating wil decrease)*	No Impact	Definite		0	0	0	0	**0**		0	0	0	0	**0**		0	0	0	0	**0**
					NO	#N/A	#N/A	#N/A	**NO**		NO	#N/A	#N/A	#N/A	**NO**		NO	#N/A	#N/A	#N/A	**NO**
STATUS QUO	INITIAL BASELINE IMPACTS TO ENVIRONMENT	Positive	Definite		2	3	3	5	**2.7**		2	3	3	5	**2.7**		2	3	3	5	**2.7**
					LOW	LOCAL	MED	OCCUR	**MOD**		LOW	LOCAL	MED	OCCUR	**MOD**		LOW	LOCAL	MED	OCCUR	**MOD**
CUMULATIVE IMPACT	INITIAL IMPACTS TO ENVIRONMENT + ADDITIONAL IMPACTS FROM PROJECT, **BEFORE MITIGATION**	Positive	Definite		3	3	3	5	**3**		3	3	3	4	**2.4**	**Neg**	5	5	4	5	**4.7**
					MOD	LOCAL	MED	OCCUR	**MOD**		MOD	LOCAL	MED	VLIKE	**MOD**		VHIGH	NAT	LONG	OCCUR	**VHIGH**
RESIDUAL IMPACT	INITIAL IMPACTS TO ENVIRONMENT + ADDITIONAL IMPACTS FROM PROJECT, **AFTER MITIGATION**	Positive	Definite		2	3	4	3	**1.8**		3	3	3	4	**2.4**	**Neg**	5	5	4	5	**4.7**
					LOW	LOCAL	LONG	COULD	**LOW**		MOD	LOCAL	MED	VLIKE	**MOD**		VHIGH	NAT	LONG	OCCUR	**VHIGH**

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ALTERNATIVES:

	IMPACT DESCRIPTION	Direction of Impact	Degree of Certainty	Site 1						Site 3A + 3B						"NO-GO"					
				Weighting	Magnatude	Spatial	Temporal	Probability	**Impact Risk**	Weighting	Magnatude	Spatial	Temporal	Probability	**Impact Risk**	Weighting	Magnatude	Spatial	Temporal	Probability	**Impact Risk**
INF-3	*Infrastructure*																				
	CLOSURE PHASE			5						5						5					
Impact 1	NO ADDITIONAL IMACT	No Impact	Definite	1	0				**0**	1	0				**0**	1	0				**0**
					NO				**NO**		NO				**NO**		NO				**NO**
Mitigation Measure:	*None Required.*				0				**0**		0				**0**		0				**0**
					NO				**NO**		NO				**NO**		NO				**NO**
COMBINED WEIGHTED RATING	**BEFORE MITIGATION**	No Impact	Definite		0	0	0	0	**0**		0	0	0	0	**0**		0	0	0	0	**0**
					NO	#N/A	#N/A	#N/A	**NO**		NO	#N/A	#N/A	#N/A	**NO**		NO	#N/A	#N/A	#N/A	**NO**
	AFTER MITIGATION *(If mitigation is effective / possible this rating wil decrease)*	No Impact	Definite		0	0	0	0	**0**		0	0	0	0	**0**		0	0	0	0	**0**
					NO	#N/A	#N/A	#N/A	**NO**		NO	#N/A	#N/A	#N/A	**NO**		NO	#N/A	#N/A	#N/A	**NO**
STATUS QUO	INITIAL BASELINE IMPACTS TO ENVIRONMENT	Negative	Definite		3	2	3	5	**2.7**		3	2	3	5	**2.7**		3	2	3	5	**2.7**
					MOD	STUDY	MED	OCCUR	**MOD**		MOD	STUDY	MED	OCCUR	**MOD**		MOD	STUDY	MED	OCCUR	**MOD**
CUMULATIVE IMPACT	INITIAL IMPACTS TO ENVIRONMENT + ADDITIONAL IMPACTS FROM PROJECT, **BEFORE MITIGATION**	Negative	Definite		5	5	3	5	**4.3**		5	5	3	5	**4.3**		3	2	3	5	**2.7**
					VHIGH	NAT	MED	OCCUR	**VHIGH**		VHIGH	NAT	MED	OCCUR	**VHIGH**		MOD	STUDY	MED	OCCUR	**MOD**
RESIDUAL IMPACT	INITIAL IMPACTS TO ENVIRONMENT + ADDITIONAL IMPACTS FROM PROJECT, **AFTER MITIGATION**	Negative	Definite		3	2	3	5	**2.7**		3	2	3	5	**2.7**		3	2	3	5	**2.7**
					MOD	STUDY	MED	OCCUR	**MOD**		MOD	STUDY	MED	OCCUR	**MOD**		MOD	STUDY	MED	OCCUR	**MOD**

Rated By: *Warren Kok*

Reviewed By:

ALTERNATIVES:

	IMPACT DESCRIPTION	Direction of Impact	Degree of Certainty	Site 1						Site 3A + 3B						"NO-GO"					
				Weighting	Magnatude	Spatial	Temporal	Probability	**Impact Risk**	Weighting	Magnatude	Spatial	Temporal	Probability	**Impact Risk**	Weighting	Magnatude	Spatial	Temporal	Probability	**Impact Risk**
V-3	*Visual*																				
	CONSTRUCTION PHASE			5						5						5					
Impact 1	Capping of Ash Dam	Positive	Probable	5	1	2	2	2	**0.7**	5	1	2	2	1	**0.3**	1	0				**0**
					VLOW	STUDY	SHORT	UNLIKE	**VLOW**		VLOW	STUDY	SHORT	IMPOS	**VLOW**		NO				**NO**
Mitigation Measure:	*Utilise indigenous seedmix*				3	3	4	5	**3.3**		3	3	4	5	**3.3**		0				**0**
					MOD	LOCAL	LONG	OCCUR	**HIGH**		MOD	LOCAL	LONG	OCCUR	**HIGH**		NO				**NO**
COMBINED WEIGHTED RATING	**BEFORE MITIGATION**	Positive	Probable		1	2	2	2	**0.7**		1	2	2	1	**0.3**		0	0	0	0	**0**
					VLOW	STUDY	SHORT	UNLIKE	**VLOW**		VLOW	STUDY	SHORT	IMPOS	**VLOW**		NO	#N/A	#N/A	#N/A	**NO**
	AFTER MITIGATION *(If mitigation is effective / possible this rating wil decrease)*	Positive	Probable		3	3	4	5	**3.3**		3	3	4	5	**3.3**		0	0	0	0	**0**
					MOD	LOCAL	LONG	OCCUR	**HIGH**		MOD	LOCAL	LONG	OCCUR	**HIGH**		NO	#N/A	#N/A	#N/A	**NO**
STATUS QUO	INITIAL BASELINE IMPACTS TO ENVIRONMENT	Negative	Definite		4	3	4	5	**3.7**		4	3	4	5	**3.7**		4	3	4	5	**3.7**
					HIGH	LOCAL	LONG	OCCUR	**HIGH**		HIGH	LOCAL	LONG	OCCUR	**HIGH**		HIGH	LOCAL	LONG	OCCUR	**HIGH**
CUMULATIVE IMPACT	INITIAL IMPACTS TO ENVIRONMENT + ADDITIONAL IMPACTS FROM PROJECT, **BEFORE MITIGATION**	Negative	Probable		4	3	4	5	**3.7**		4	3	4	5	**3.7**		4	3	4	5	**3.7**
					HIGH	LOCAL	LONG	OCCUR	**HIGH**		HIGH	LOCAL	LONG	OCCUR	**HIGH**		HIGH	LOCAL	LONG	OCCUR	**HIGH**
RESIDUAL IMPACT	INITIAL IMPACTS TO ENVIRONMENT + ADDITIONAL IMPACTS FROM PROJECT, **AFTER MITIGATION**	Negative	Probable		3	3	4	4	**2.7**		3	3	4	5	**3.3**		3	3	4	5	**3.3**
					MOD	LOCAL	LONG	VLIKE	**MOD**		MOD	LOCAL	LONG	OCCUR	**HIGH**		MOD	LOCAL	LONG	OCCUR	**HIGH**

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ALTERNATIVES:

	IMPACT DESCRIPTION	Direction of Impact	Degree of Certainty	Site 1						Site 3A + 3B						"NO-GO"					
				Weighting	Magnatude	Spatial	Temporal	Probability	**Impact Risk**	Weighting	Magnatude	Spatial	Temporal	Probability	**Impact Risk**	Weighting	Magnatude	Spatial	Temporal	Probability	**Impact Risk**
ArCH-3	*Archaeology, Palaeontology, Cultural Heritage*																				
	CLOSURE PHASE			5						5						5					
Impact 1	NO ADDITIONAL IMPACT	No Impact	Definite	1	0				**0**	1	0				**0**	1	0				**0**
					NO				**NO**		NO				**NO**		NO				**NO**
Mitigation Measure:	*Mitigation:*				0				**0**		0				**0**		0				**0**
					NO				**NO**		NO				**NO**		NO				**NO**
COMBINED WEIGHTED RATING	**BEFORE MITIGATION**	No Impact	Definite		0	0	0	0	**0**		0	0	0	0	**0**		0	0	0	0	**0**
					NO	#N/A	#N/A	#N/A	**NO**		NO	#N/A	#N/A	#N/A	**NO**		NO	#N/A	#N/A	#N/A	**NO**
	AFTER MITIGATION *(If mitigation is effective / possible this rating wil decrease)*	No Impact	Definite		0	0	0	0	**0**		0	0	0	0	**0**		0	0	0	0	**0**
					NO	#N/A	#N/A	#N/A	**NO**		NO	#N/A	#N/A	#N/A	**NO**		NO	#N/A	#N/A	#N/A	**NO**
STATUS QUO	INITIAL BASELINE IMPACTS TO ENVIRONMENT	No Impact	Definite		0				**0**		0				**0**		0				**0**
					NO				**NO**		NO				**NO**		NO				**NO**
CUMULATIVE IMPACT	INITIAL IMPACTS TO ENVIRONMENT + ADDITIONAL IMPACTS FROM PROJECT, **BEFORE MITIGATION**	No Impact	Definite		0				**0**		0				**0**		0				**0**
					NO				**NO**		NO				**NO**		NO				**NO**
RESIDUAL IMPACT	INITIAL IMPACTS TO ENVIRONMENT + ADDITIONAL IMPACTS FROM PROJECT, **AFTER MITIGATION**	No Impact	Definite		0				**0**		0				**0**		0				**0**
					NO				**NO**		NO				**NO**		NO				**NO**