Appendix F: Impact Assessment

						0	peratio	nal	Phase	mpacts	5															
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	Impact Ratings Before Mitigation													Impact Ratings After Mitigation												
			Significance	Extent	Duration	Probability	Degree of Certaint	Im	pact Risk	Intensity / Severity	Reversibility		Significance	Extent	Duration	Probability		Degree of Certainty	Im	pact Risk						
	Alt 1		LOW	2 Isolated Sites / proposed site	1 Long term 4	Very Likely	4 Probable	1.87	Low	Low	Reversible over time	3	LOW 2	Isolated Sites / proposed site	1 Long term	4 Could occur	3 F	Possible	1.40	Low						
Soils and Land Capability	Alt 2	Direct Impact	LOW	2 Isolated Sites / proposed site	1 Long term 4	Very Likely	4 Probable	1.87	Low	Low	Reversible over time	3	LOW 2	Isolated Sites / proposed site	1 Long term	occur	3 F	Possible	1.40	Low						
	Alt 3		LOW	2 Isolated Sites / proposed site	1 Long term 4	Very Likely	4 Probable	1.87	Low	Low	Reversible over time	3	LOW 2	Isolated Sites / proposed site	1 Long term	4 Could occur	3 F	Possible	1.40	Low						
	Alt 1		MODERATE	3 Study Area	2 Medium term 3	Very Likely	4 Possible	2.13	Moderate	Medium	Reversible over time	3	LOW 2	Study Area	2 Medium term	3 Very Likely	4 F	Possible	1.87	Low						
Land Use	Alt 2	Direct Impact	MODERATE	3 Study Area	2 Medium term 3	Very Likely	4 Possible	2.13	Moderate	Medium	Reversible over time	3	LOW 2	Study Area	2 Medium term	3 Very Likely	4 F	Possible	1.87	Low						
	Alt 3		HIGH	4 Study Area	2 Long term 4	Will / Has occurred	5 Possible	3.33	High	High	Reversible over time	3	MODERATE 3	Study Area	2 Medium term		4 F	Possible	2.13	Moderate						
	Alt 1		LOW	2 Local	3 Incidental 1	Will / Has occurred	5 Possible	2.00	Low	Low	Reversible over time	3	LOW 2	Isolated Sites / proposed site	1 Incidental	occur	3 F	Possible	0.80	Very Low						
Surface Water & Groundwater	Alt 2	Direct Impact	LOW	2 Local	3 Incidental 1	Will / Has occurred	5 Possible	2.00	Low	Low	Reversible over time	3	LOW 2	Isolated Sites / proposed site	1 Incidental	1 Could occur	3 F	Possible	0.80	Very Low						
	Alt 3		HIGH	4 Local	3 Short-term 2	Will / Has occurred	5 Probable	3.00	Moderate	Medium	Reversible over time	3	MODERATE 3	Isolated Sites / proposed site	1 Incidental	1 Very Likely	4 F	Possible	1.33	Low						
	Alt 1		HIGH	4 Study Area	2 Long term 4	Will / Has occurred	5 Possible	3.33	High	Low	Reversible over the long term	4	MODERATE 3	Study Area	2 Medium term	3 Very Likely	4 F	Possible	2.13	Moderate						
	Alt 2	Direct Impact	HIGH	4 Study Area	2 Long term 4	Will / Has occurred	5 Possible	3.33	High	Low	Reversible over time	3	MODERATE 3	Study Area	2 Medium term	3 Very Likely	4 F	Possible	2.13	Moderate						
Fauna, Flora and Avifauna	Alt 3		MODERATE	3 Study Area	2 Long term 4	Will / Has occurred	5 Possible	3.00	Moderate	Low	Reversible over the long term	4	LOW 2	Study Area	2 Medium term	3 Very Likely	4 F	Possible	1.87	Low						
	Alt 1		HIGH	4 Local	3 Long term 4	Will / Has occurred	5 Definite	3.67	High	Medium	Reversible over time	3	MODERATE 3	Local	3 Medium term	3 Very Likely	4 F	Possible	2.40	Moderate						
	Alt 2	Indirect Impact	HIGH	4 Local	3 Long term 4	Will / Has occurred	5 Possible	3.67	High	Medium	Reversible over time	3	MODERATE 3	Local	3 Medium term	o vory Enory	4 F	Possible	2.40	Moderate						
	Alt 3		MODERATE	3 Study Area	2 Long term 4	Will / Has occurred	5 Possible	3.00	Moderate	Medium	Reversible over time	3	LOW 2	Isolated Sites / proposed site	1 Medium term	occur	3 F	Possible	1.20	Low						
	Alt 1		MODERATE	3 Study Area	2 Medium term 3	Could occur	3 Possible	1.60	Low	Low	Quickly reversible	2	LOW 2	Isolated Sites / proposed site	1 Medium term	occur	3 F	Possible	1.20	Low						
Visual	Alt 2	Direct Impact	MODERATE	3 Study Area	2 Medium term 3	Could occur	3 Possible	1.60	Low	Low	Quickly reversible	2	LOW 2	Isolated Sites / proposed site	1 term	occur	3 F	Possible	1.20	Low						
	Alt 3		MODERATE	3 Study Area	2 Medium term 3	Could occur	3 Probable	1.60	Low	Low	Quickly reversible	2	LOW 2	Isolated Sites / proposed site	1 term	occur	3 F	Possible	1.20	Low						
	Alt 1		MODERATE	3 Study Area	2 Short-term 2	Very Likely	4 Possible	1.87	Low	Low	Quickly reversible	2	LOW 2	Study Area	2 Incidental	occur	3 F	Possible	1.00	Very Low						
Socio-Economic	Alt 2	Direct Impact	MODERATE	3 Study Area	2 Short-term 2	Very Likely	4 Possible	1.87	Low	Low	Quickly reversible	2	LOW 2	Study Area	2 Incidental	occur	3 F	Possible	1.00	Very Low						
	Alt 3		MODERATE	3 Study Area	2 Short-term 2	Very Likely	4 Probable	1.87	Low	Low	Quickly reversible	2	LOW 2	Study Area	2 Incidental	1 Could occur	3 F	Possible	1.00	Very Low						

					Pre	-Constr <u>uc</u>	tion and	Co	nstructi	on Pha	se Impacts							_	
				In	pact Ratings Be	fore Mitigation	_	_		-			In	npact Ratings	After Mitigatio	on			
			Significance	Extent	Duration	Probability	Degree of Certainty	Im	pact Risk	Intensity / Severity	Reversibility	Significance	Extent	Duration	Probabilit	y	Degree of Certainty	Im	pact Risk
	Alt 1		LOW	2 Isolated Sites / proposed site	1 Permanent 5	Could occur 3	B Possible	1.60	Low	Low	Irreversible, impact is 5 permanent	LOW 2	Isolated Sites / proposed site	1 Permanent	5 Unlikely	2	Possible	1.07	Very Low
Geology	Alt 2	Direct Impact	LOW	2 Isolated Sites / proposed site	1 Permanent 5	Could occur 3	Possible	1.60	Low	Low	Irreversible, impact is 5 permanent	LOW 2	Isolated Sites / proposed site	1 Permanent	5 Unlikely	2	Possible	1.07	Very Low
	Alt 3		LOW	2 Isolated Sites / proposed site	1 Permanent 5	Could occur	Probable	1.60	Low	Low	Irreversible, impact is 5 permanent	LOW 2	Isolated Sites / proposed site	1 Permanent	5 Unlikely	2	Possible	1.07	Very Low
	Alt 1		LOW	2 Isolated Sites / proposed site	1 Short-term 2	Very Likely 4	Possible	1.33	Low	Low	Reversible over 3 time	LOW 2	Isolated Sites / proposed site	1 Short-term	2 Unlikely	2	Possible	0.67	Very Low
Topography	Alt 2	Direct Impact	LOW	2 Isolated Sites / proposed site	1 Short-term 2	Very Likely 4	Possible	1.33	Low	Low	Reversible over 3	LOW 2	Isolated Sites / proposed site	1 Short-term	2 Unlikely	2	Possible	0.67	Very Low
	Alt 3		LOW	2 Isolated Sites / proposed site	1 Medium term 3	Very Likely 4	Probable	1.60	Low	Low	Reversible over 3	LOW 2	Study Area	2 Medium term	3 Could occur	3	Possible	1.40	Low
Soils and Land Capability	Alt 1	Direct Impact	MODERATE 3	3 Study Area	2 Medium term 3	Very Likely 4	Probable	2.13	Moderate	Low	Reversible over 3	LOW 2	Study Area	2 Medium term	3 Could occur	3	Possible	1.40	Low
	Alt 2		MODERATE 3	3 Study Area	2 Medium term 3	Very Likely 4	Probable	2.13	Moderate	Low	Reversible over 3 time 3	LOW 2	Study Area	2 Medium term	3 Could occur	3	Possible	1.40	Low
	Alt 3		LOW 2	2 proposed site	1 Medium term 3	Could occur 3	Probable	1.20	Low	Low	time 3 Quickly	LOW 2	proposed site Isolated Sites /	1 term	3 occur	-	Possible	1.20	
	Alt 1	_	MODERATE 3	3 Study Area	2 Short-term 2	occurred Will / Has	5 Probable	2.33	Moderate	Medium	reversible 2 Quickly	LOW 2	proposed site Isolated Sites /	1 Short-term	2 occur	_	Possible	1.00	
	Alt 2	Direct Impact	MODERATE 3	3 Study Area	2 Short-term 2	occurred	o Probable	2.33	Moderate	Medium	reversible 2 Quickly	LOW 2	proposed site Isolated Sites /	1 Short-term	2 occur occur		Possible	1.00	-
Land Use	Alt 3		MODERATE 3	3 Study Area	2 Short-term 2	Could occur 3	Probable	1.40	Low	Medium	reversible over	LOW 2	proposed site	1 Short-term	2 occur Could		Possible	1.00	-
	Alt 1 Alt 2	Indirect Impact	HIGH 4	4 Local	3 Short-term 2 3 Short-term 2	Very Likely 4	Possible	2.40 2.40	Moderate Moderate	Medium Medium	time 3 Reversible over 2	LOW 2 LOW 2	Local	3 Short-term 3 Short-term	2 occur 2 Could		Possible Possible	1.40 1.40	
	Alt 2		HIGH	4 Local	3 Short-term 2	Very Likely 4	Possible	2.40	Moderate	Medium	time 3 Reversible over 3	LOW 2		3 Short-term	² occur 2 ^{Could}		Possible	1.40	
	Alt 1		MODERATE	3 Study Area	2 Short-term 2	Very Likely 4	Probable	1.87	Low	Medium	time 3 Reversible over 3	LOW 2	Isolated Sites /	1 Incidental	² occur 1 ^{Could}	_	Possible	0.80	
	Alt 2	Direct Impact	MODERATE 3	3 Study Area		Very Likely 4	Probable	1.87	Low	Medium	time C Reversible over 3	LOW 2	proposed site Isolated Sites /	1 Incidental	occur 1 ^{Could}		Possible	0.80	
Surface and	Alt 3	1	MODERATE 3	3 Study Area	2 Short-term 2	Very Likely 4	Probable	1.87	Low	Medium	time Reversible over 3	LOW 2	proposed site Isolated Sites /	1 Short-term	2 Could		Possible	1.00	
Ground Water	Alt 1		LOW	2 Isolated Sites /	1 Permanent 5	Could occur 3	B Possible	1.60	Low	Medium	time Reversible over time	LOW 2	proposed site Isolated Sites / proposed site	1 Short-term	2 Unlikely	2	Possible	0.67	Very Low
	Alt 2	Indirect Impact	LOW	2 Isolated Sites / proposed site	1 Long term 4	Could occur 3	B Possible	1.40	Low	Medium	Reversible over 3	LOW 2	Isolated Sites / proposed site	1 Short-term	2 Unlikely	2	Possible	0.67	Very Low
	Alt 3	1	LOW	2 Isolated Sites / proposed site	1 Permanent 5	Could occur 3	B Possible	1.60	Low	Medium	Reversible over 3	LOW 2	Isolated Sites / proposed site	1 Short-term	2 Unlikely	2	Possible	0.67	Very Low

Fauna, Flora & Avifauna	Alt 1		HIGH	4 Study Area	2 Long term 4	4 Will / Has concurred	5 Probable	3.33	High	Medium	Reversible over the long term	4	MODERATE 3	Study Area	2 <mark>Medium</mark> term	3 Very Likely	4	Possible	2.13	Moderate
	Alt 2	Direct Impact	HIGH	4 Study Area	2 Long term 4	4 Will / Has occurred	5 Probable	3.33	High	Medium	Reversible over the long term	4	MODERATE 3	Study Area	2 Medium term	3 Very Likely	4	Possible	2.13	Moderate
	Alt 3		MODERATE	3 Study Area	2 Long term 4	4 Will / Has e	5 Probable	3.00	Moderate	Medium	Reversible over the long term	4	MODERATE 3	Study Area	2 Medium term	3 Could occur	3	Possible	1.60	Low
	Alt 1		HIGH	4 Local	3 Medium term 3	3 Will / Has	5 Possible	3.33	High	Medium	Reversible over time	3	MODERATE 3	Local	3 Medium term	3 Very Likely	4	Possible	2.40	Moderate
	Alt 2	Indirect Impact	HIGH	4 Local	3 Medium term 3	3 Will / Has	5 Possible	3.33	High	Medium	Reversible over time	3	MODERATE 3	Local	3 Medium term	3 Very Likely	4	Possible	2.40	Moderate
	Alt 3		HIGH	4 Local	3 Medium term 3	3 Very Likely	4 Possible	2.67	Moderate	Medium	Reversible over time	3	MODERATE 3	Local	3 Medium term	3 Could occur	3	Possible	1.80	Low
Archaeological or Cultural	Alt 1		LOW	2 Isolated Sites / proposed site	1 Permanent	5 Very Likely	4 Possible	2.13	Moderate	High	Irreversible, impact is permanent	5	LOW 2	Isolated Sites / proposed site	1 Incidental	1 Unlikely	2	Possible	0.53	Very Low
	Alt 2	Direct Impact	LOW	2 Isolated Sites / proposed site	1 Permanent	5 Very Likely	4 Possible	2.13	Moderate	High	Irreversible, impact is permanent	5	LOW 2	Isolated Sites / proposed site	1 Incidental	1 Unlikely	2	Possible	0.53	Very Low
	Alt 3		LOW	2 Isolated Sites / proposed site	1 Permanent 5	5 Could occur	3 Probable	1.60	Low	Medium	Irreversible, impact is permanent	5	LOW 2	Isolated Sites / proposed site	1 Incidental	1 Unlikely	2	Possible	0.53	Very Low
Socio-Economic	Alt 1	Direct Impact	MODERATE	3 Local	3 Short-term 2	2 Very Likely	4 Possible	2.13	Moderate	Medium	Reversible over time	3	LOW 2	Local	3 Short-term	2 Could occur	3	Possible	1.40	Low
	Alt 2		MODERATE	3 Local	3 Short-term 2	2 Very Likely	4 Possible	2.13	Moderate	Medium	Reversible over time	3	LOW 2	Local	3 Short-term	2 Could occur	3	Possible	1.40	Low
	Alt 3		MODERATE	3 Local	3 Short-term 2	2 Very Likely	4 Probable	2.13	Moderate	Medium	Reversible over time	3	LOW 2	Local	3 Short-term	2 Could occur	3	Possible	1.40	Low
	Alt 1	Direct Impact	LOW	2 Local	3 Medium term 3	3 Could occur	3 Possible	1.60	Low	Low	Quickly reversible	2	LOW 2	Local	3 Incidental	1 Could occur	3	Possible	1.20	Low
Noise	Alt 2		LOW	2 Local	3 Medium term 3	3 Could occur	3 Possible	1.60	Low	Low	Quickly reversible	2	LOW 2	Local	3 Incidental	1 Could occur	3	Possible	1.20	Low
	Alt 3		LOW	2 Local	3 Medium term 3	3 Could occur	3 Probable	1.60	Low	Low	Quickly reversible	2	LOW 2	Local	3 Incidental	1 Could occur	3	Possible	1.20	Low
	Alt 1	Direct Impact	MODERATE	3 Local	3 Medium term 3	3 Very Likely	1 Possible	2.40	Moderate	Medium	Quickly reversible	2	LOW 2	Local	3 Incidental	1 Could occur	3	Possible	1.20	Low
	Alt 2		MODERATE	3 Local	3 Medium term 3	3 Very Likely	1 Possible	2.40	Moderate	Medium	Quickly reversible	2	LOW 2	Local	3 Incidental	1 Could occur	3	Possible	1.20	Low
Traffic	Alt 3		MODERATE	3 Local	3 Medium term 3	3 Very Likely	1 Possible	2.40	Moderate	Medium	Quickly reversible	2	LOW 2	Local	3 Incidental	1 Could occur	3	Possible	1.20	Low
name	Alt 1		MODERATE	3 Regional/Provi ncial	4 Medium term 3	3 Very Likely	4 Possible	2.67	Moderate	Medium	Quickly reversible	2	LOW 2	Regional/Provin cial	4 Incidental	1 Could occur	3	Possible	1.40	Low
	Alt 2	Indirect Impact	MODERATE	3 Regional/Provi ncial	4 Medium term 3	3 Very Likely	4 Possible	2.67	Moderate	Medium	Quickly reversible	2	LOW 2	Regional/Provin cial	4 Incidental	1 Could occur	3	Possible	1.40	Low
	Alt 3		MODERATE	3 Regional/Provi ncial	4 Medium term 3	3 Very Likely	4 Possible	2.67	Moderate	Medium	Quickly reversible	2	LOW 2	Regional/Provin cial	4 Incidental	1 Could occur	3	Possible	1.40	Low
	Alt 1		MODERATE	3 Study Area	2 Medium term 3	3 Could occur	B Possible	1.60	Low	Low	Reversible over time	3	LOW 2	Isolated Sites / proposed site	1 Medium term	3 Could occur	3	Possible	1.20	Low
Visual	Alt 2	Direct Impact	MODERATE	3 Study Area	2 Medium term 3	3 Could occur	B Possible	1.60	Low	Low	Reversible over time	3	LOW 2	Isolated Sites / proposed site	1 Medium term	3 Could occur	3	Possible	1.20	Low
	Alt 3		MODERATE	3 Study Area	2 Medium term 3	3 Could occur	3 Probable	1.60	Low	Low	Reversible over time	3	LOW 2	Isolated Sites / proposed site	1 Medium term	3 Could occur	3	Possible	1.20	Low
	Alt 1		LOW	2 Local	3 Short-term 2	2 Very Likely	4 Possible	1.87	Low	Low	Reversible over time	3	LOW 2	Study Area	2 Short-term	2 Could occur	3	Possible	1.20	Low
Air Quality	Alt 2	Direct Impact	LOW	2 Local	3 Short-term 2	2 Very Likely	4 Possible	1.87	Low	Low	Reversible over time	3	LOW 2	Study Area	2 Short-term	2 Could occur	3	Possible	1.20	Low
	Alt 3		LOW	2 Local	3 Short-term 2	2 Very Likely	4 Probable	1.87	Low	Low	Reversible over time	3	LOW 2	Study Area	2 Short-term	2 Could occur	3	Possible	1.20	Low