

Appendix 12-4 – Climate Risk Register



## APPENDIX 12-4 (CLIMATE RISK REGISTER)

	Ris	k Identii	fication				Ri	sk Ass	essme	nt		Adaptation Measures								Signifi cance
Ri s k ID	Clim ate varia ble	Risk state ment	Proje ct recep tors	Impa ct type	Plann ed contr ols	206	RCP4.5 (2041- 2060) Moderate Risk Scenario			RCP8.5 (2041-2060 )High Risk Scenario			Timing & Respo nsibilit y	RCP4.5 (2041-			Risk Rating RCP8.5 (2041- 2060)			Signifi cance
						Likelihood	Consequence	Risk rating	Likelihood	Consequence	Risk rating			Likelihood	Consequence	Risk rating	Likelihood	Consequence	Risk rating	
1	Floo d pluvi al	Poten tial risk to pluvia I floodi ng on site	Acces s roads, landfil l, buildi ngs	Floodi ng	Additi onal 20% increa se in peak flood flows includ ed in design	Rare	Insign ificant	Low Ris k	Unli kely	Low Risk	Low Ris k	Design measu res	Adaptat ion measur es to be monitor ed and reviewe d annuall y to ensure sufficie nt coverag e of likely events.	Rare	Insign ificant	Low Ris k	Unli kely	Low Risk	Low Ris k	Not signific ant



	Ris	k Identif	ication				Ri	sk Ass	sessme	nt				Adap	tation M	easure	s			Signifi cance
Ri s	Clim	Risk state	Proje ct	Impa ct	Plann ed		Initial ris			RCP8.5 (2041-2060			Timing & Respo	RC	Res P4.5 (20		Risk Rat	41-	Signifi	
k ID	varia ble	ment	recep tors	type	contr ols	2060) Moderate Risk Scenario			)High Risk Scenario			Measu res	nsibilit y	2060)			RCP8.5 (2041- 2060)			cance
						Likelihood	Consequence	Risk rating	Likelihood	Consequence	Risk rating			Likelihood	Consequence	Risk rating	Likelihood	Consequence	Risk rating	
2	Extre me Heat	Exten ded heat event s have the potent ial to impac t Integr ated Const ructed Wetla nds and comp osting facility	Integr ated Const ructed Wetla nds and comp osting facility	Failur e of wetla nds and comp osting facility	Monito ring and review ed annual ly to ensur e suffici ent	Unli kely	Minor	Low Ris k	Mod erat e	Minor	Me diu m Ris k	Consid eration of wetlan ds and compo sting manag ement for extrem e heat period s.	Adaptat ion measur es to be monitor ed and reviewe d annuall y to ensure sufficie nt coverag e of likely events.	Unli kely	Minor	Low Ris k	Mod erat e	Minor	Me diu m Ris k	Signifi cant



	Ris	k Identif	ication				Ri	sk Ass	essme	nt				Adap	tation M	easure	s			Signifi cance
Ri s k	Clim ate varia	Risk state	Proje ct recep	Impa ct	Plann ed contr		RCP4.5 (2041- 2060) Moderate			RCP8.5 (2041-2060 )High Risk			Timing & Respo	RCP4.5 (2041-			Risk Rating RCP8.5 (2041-			Signifi cance
ID	ble	ment	tors	type	ols	Risk Scenario			Scenario			Measu nsibilit		2060)			2060)			Carrot
						Likelihood	Consequence	Risk rating	Likelihood	Consequence	Risk rating			Likelihood	Consequence	Risk rating	Likelihood	Consequence	Risk rating	
3	Extre me Cold	Exten ded heat event s have the potent ial to impac t Integr ated Const ructed Wetla nds and acces s roads	Integr ated Const ructed Wetla nds and acces s roads	Ice/sn ow on roads impac ting acces s and cold impac ting wetla nds	Grittin g of roads when requir ed, lightin g to show if issue prese nt. Extre me tempe rature plan for wetlan ds to be put in place.	Mod erat e	Minor	Me diu m Ris k	Mod erat e	Minor	Me diu m Ris k	Consid eration of wetlan ds and road manag ement for extrem e cold period s.	Adaptat ion measur es to be monitor ed and reviewe d annuall y to ensure sufficie nt coverag e of likely events.	Mod erat e	Minor	Me diu m Ris k	Mod erat e	Minor	Me diu m Ris k	Signifi cant



	Ris	k Identif	fication				Ri	isk Ass	essme	nt		Adaptation Measures								Signifi cance
Ri s k ID	Clim ate varia ble	Risk state ment	Proje ct recep tors	Impa ct type	Plann ed contr ols	206	RCP4.5 (2041- 2060) Moderate Risk Scenario			RCP8.5 (2041-2060 )High Risk Scenario			Timing & Respo nsibilit y	RC	Res P4.5 (20 2060)		Risk Rat	Signifi cance		
						Likelihood	Consequence	Risk rating	Likelihood	Consequence	Risk rating			Likelihood	Consequence	Risk rating	Likelihood	Consequence	Risk rating	
4	Drou ght	Droug ht event s have the potent ial to impac t Integr ated Const ructed Wetla nds and lands capin g	Integr ated Const ructed Wetla nds and lands capin g	Droug ht causi ng impac ts to planti ng in wetla nds or lands capin g	Adapt ation measu res to be monito red and review ed annual ly to ensur e suffici ent covera ge of likely events	Rare	Minor	Low Ris k	Unli kely	Minor	Low Ris k	For landsc aping use drough t resista nt plantin g and rainwa ter harves ting to provid e a backu p supply of water.	Adaptat ion measur es to be monitor ed and reviewe d annuall y to ensure sufficie nt coverag e of likely events.	Rare	Minor	Low Ris k	Unli kely	Minor	Low Ris k	Not signific ant



	Ris	k Identif	fication				Ri	sk Ass	essme	nt		Adaptation Measures								
Ri s k ID	Clim ate varia ble	Risk state ment	Proje ct recep tors	Impa ct type	Plann ed contr ols	206	In P4.5 (204 0) Moder k Scena	41- rate	)	g 3.5 (2041 High Ris Scenario	k	Adapt ation Measu res	Timing & Respo nsibilit	RC	Residual Ri RCP4.5 (2041- 2060)			RCP8.5 (2041- 2060)		
						Likelihood	Consequence	Risk rating	Likelihood	Consequence	Risk rating			Likelihood	Consequence	Risk rating	Likelihood	Consequence	Risk rating	
5	Wind	Wind has the potent ial to dama ge some utilitie s, such ead lines, and building on site.	Overh ead lines and buildi ng	Dama ge to line or buildi ng claddi ng	Upkee p of buildin gs to ensur e no weak points. Desig ned to Euroc odes which accou nt for wind loadin gs.	Unli kely	Insign ificant	Low Ris k	Mod erat e	Insign ificant	Low Ris k	Design ed and built to standa rds that should be resilien t to increa sed wind loadin g.	In addition to regular annual mainten ance to overhe ad lines and building s, addition al mainten ance checks prior to any forecast signific ant storm.	Unli kely	Insign ificant	Low Ris k	Mod erat e	Insign ificant	Low Ris k	Not signific ant