

20 Summary of Residual Effects

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20 Summary of Residual Effects

20.1 Introduction

- 20.1.1 Table 20.1 and Table 20.2 provide a quick reference to residual environmental effects identified in the technical sections of the EIA, as well as a cross reference to the relevant mitigation measures identified.
- 20.1.2 Table 20.3 provides a summary of the cumulative effects of the Proposed Development in combination with other proposed, consented and operation developments within the area.

Table 20.1 - Summary of Residual Effects – Construction Phase

Description of Effect	Significance of Likely Effect		Additional Mitigation Measure	Significance of Residual Effect	
	Significance	Beneficial/ Adverse		Significance	Beneficial/ Adverse
6. Landscape and Visual					
Agricultural Land	Not significant	Adverse	None	Not significant	Adverse
Coast with Sand LCT Mussetter LCU	Significant			Significant	
Holms LCT Holm of Faray LCU	Significant			Significant	
Holms LCT Rusk Holm LCU	Significant			Significant	
Inclined Coastal Pastures LCT Central Eday LCU	Significant – northern and central parts Not significant – southern part			Significant – northern and central parts Not significant – southern part	
Inclined Coastal Pastures LCT Fersness LCU	Significant – northern and central parts Not significant – southern parts			Significant – northern and central parts Not significant – southern parts	
Moorland Hills LCT South Eday LCU	Significant			Significant	

Description of Effect	Significance of Likely Effect		Additional Mitigation Measure	Significance of Residual Effect	
	Significance	Beneficial/ Adverse		Significance	Beneficial/ Adverse
Moorland Hills LCT North Eday LCU	Significant			Significant	
Moorland Hills LCT: North-east Rousay LCU	Not significant			Not significant	
Ridgeline Island Landscapes LCT Westray LCU	Significant – southern part Not significant – northern part			Significant – southern part Not significant – northern part	
Undulating Island Pastures LCT: Sanday LCU	Not significant			Not significant	
Undulating Island Pastures LCT: Westray LCU	Not significant			Not significant	
Whaleback Islands LCT: Faray LCU	Significant			Significant	
Whaleback Islands LCT: Egilsay LCU	Not significant			Not significant	
RCCA 3 Sanday West	Not significant			Not significant	
RCCA 5 Eday: LCCA 5c Red Head to Greenan Nev	Significant – southern and central section			Significant – southern and central section	
		Adverse	None		Adverse

Description of Effect	Significance of Likely Effect		Additional Mitigation Measure	Significance of Residual Effect	
	Significance	Beneficial/ Adverse		Significance	Beneficial/ Adverse
	Not significant – northern section			Not significant – northern section	
RCCA 5 Eday: LCCA 5d Fersness Bay	Significant			Significant	
RCCA 5 Eday: LCCA 5e Faray	Significant			Significant	
RCCA 5 Eday: LCCA 5f Holm of Faray	Significant			Significant	
RCCA 8 Westray North and East	Significant – southern coast Not significant – eastern and northern coasts			Significant – southern coast Not significant – eastern and northern coasts	
RCCA 10 Rousay North: LCCA 10b Saviskaill Bay	Not significant	Adverse	None	Not significant	Adverse
RCCA 11 Rousay South: LCCA 11d Point of Avelshay to Scock Ness	Not significant			Not significant	
RCCA 12 Egilsay and Wyre	Not significant			Not significant	
Viewpoint 1: Guith, Eday	Significant			Significant	
Viewpoint 2: Vinqouy Hill, Eday	Significant			Significant	

Description of Effect	Significance of Likely Effect		Additional Mitigation Measure	Significance of Residual Effect	
	Significance	Beneficial/ Adverse		Significance	Beneficial/ Adverse
Viewpoint 3: Sands of Mussetter, Eday	Significant			Significant	
Viewpoint 4: Westray Ferry Terminal, Westray	Significant	Adverse	None	Significant	Adverse
Viewpoint 5: Ness of Tuquoy, Westray	Significant			Significant	
Viewpoint 6: Spur Ness, Sanday;	Not significant			Not significant	
Viewpoint 7: North Bay, Sanday	Not significant			Not significant	
Viewpoint 8: John's Hill, North Stronsay	Not significant			Not significant	
Viewpoint 9: Kierfea Hill, East Rousay	Significant			Significant	
Viewpoint 10: Hatston, Kirkwall	Not significant			Not significant	
Viewpoint 11: Westray Ferry	Significant			Significant	
Northern Isles Ferries	Significant – out to 12 km south, 8 km north-west			Significant – out to 12 km south, 8 km north-west and 7 km north-east	

Description of Effect	Significance of Likely Effect		Additional Mitigation Measure	Significance of Residual Effect	
	Significance	Beneficial/ Adverse		Significance	Beneficial/ Adverse
	and 7 km north-east Not significant – all remaining sections			Not significant – all remaining sections	
B9066, Westray	Significant – out to 7.5 km north-west Not significant – beyond 7.5 km north-west			Significant – out to 7.5 km north-west Not significant – beyond 7.5 km north-west	
B9063, Eday	Significant – northern and central sections Not significant – southern section			Significant – northern and central sections Not significant – southern section	
ED1 Eday Heritage Walk	Significant			Significant	
ED5 Newark	Significant			Significant	
ED6 Sands of Mussetter	Significant	Adverse	None	Significant	Adverse

Description of Effect	Significance of Likely Effect		Additional Mitigation Measure	Significance of Residual Effect	
	Significance	Beneficial/ Adverse		Significance	Beneficial/ Adverse
W8 Castle o' Burrian and the Bay of Tafts; and	Significant – central sections Not significant – eastern and western sections			Significant – central sections Not significant – eastern and western sections	
R6 Faraclett Head	Significant			Significant	
7. Ornithology					
Greylag goose disturbance and displacement.	Barely Perceptible and not significant	Adverse	None	Barely Perceptible and not significant	Adverse
Red-throated diver disturbance and displacement					
Curlew disturbance and displacement.	Barely Perceptible and not significant	Adverse	Timing of works or pre-construction check for nesting birds. Exclusion zones during breeding season.	Barely Perceptible and not significant	Adverse

Description of Effect	Significance of Likely Effect		Additional Mitigation Measure	Significance of Residual Effect	
	Significance	Beneficial/ Adverse		Significance	Beneficial/ Adverse
Lapwing disturbance and displacement.	Low and not significant		Timing of works or pre-construction check for nesting birds. Exclusion zones during breeding season.	Barely Perceptible and not significant	
Golden plover disturbance and displacement.	Barely Perceptible and not significant	Adverse	Timing of works or pre-construction check for nesting birds. Exclusion zones during breeding season.	Barely Perceptible and not significant	Adverse
Oystercatcher disturbance and displacement.	Low and not significant	Adverse	Timing of works or pre-construction check for nesting birds. Exclusion zones during breeding season.	Barely Perceptible and not significant	Adverse
Ringed plover disturbance and displacement.	Low and not significant	Adverse	Timing of works or pre-construction check for nesting birds. Exclusion zones during breeding season.	Barely Perceptible and not significant	Adverse
Redshank disturbance and displacement.	Low and not significant	Adverse	Timing of works or pre-construction check for nesting birds. Exclusion zones during breeding season.	Barely Perceptible and not significant	Adverse
Snipe	Low and not significant	Adverse	Timing of works or pre-construction check for nesting birds. Exclusion zones during breeding season.	Barely Perceptible and not significant	Adverse
Arctic tern disturbance and displacement.	Low and not significant	Adverse	Timing of works or pre-construction check for nesting birds. Exclusion zones during breeding season.	Barely Perceptible and not significant	Adverse

Description of Effect	Significance of Likely Effect		Additional Mitigation Measure	Significance of Residual Effect	
	Significance	Beneficial/ Adverse		Significance	Beneficial/ Adverse
Storm petrel disturbance and displacement	Medium and not significant	Adverse	Minimum 100 m exclusion zone from nesting locations, timing of works and pre-construction check for nesting birds. Enforced biosecurity plan.	Low and not significant	Adverse
Gulls	Low and not significant	Adverse	Timing of works or pre-construction check for nesting birds. Exclusion zones during breeding season.	Barely Perceptible and not significant	Adverse
Great skua	Barely Perceptible and not significant	Adverse	Timing of works or pre-construction check for nesting birds. Exclusion zones during breeding season.	Barely Perceptible and not significant	Adverse
Shag, Black guillemot	Barely Perceptible and not significant	Adverse	None	Barely Perceptible and not significant	Adverse
8. Terrestrial Ecology					
Designated sites: Faray and Holm of Faray SAC and SSSI. Main borrow pit operation	No impact	n/a	No further mitigation required beyond the embedded mitigation described	No impact	n/a

Description of Effect	Significance of Likely Effect		Additional Mitigation Measure	Significance of Residual Effect	
	Significance	Beneficial/ Adverse		Significance	Beneficial/ Adverse
Designated sites: Faray and Holm of Faray SAC and SSSI. Secondary borrow pit operation	No impact	n/a	No further mitigation required beyond the embedded mitigation described	No impact	n/a
Designated sites: Faray and Holm of Faray SAC and SSSI. Landing jetty and Extended slipway construction – habitat changes	Negligible	Adverse	No further mitigation required beyond the embedded mitigation described	No impact	n/a
Designated sites: Faray and Holm of Faray SAC and SSSI. Landing jetty and Extended slipway – breeding grey seals	No impact	n/a	No further mitigation required beyond the embedded mitigation described	No impact	n/a
Designated sites: Faray and Holm of Faray SAC and SSSI. Extended slipway and landing jetty operation	No impact	n/a	No further mitigation required beyond the embedded mitigation described	No impact	n/a
Designated sites: Faray and Holm of Faray SAC and SSSI. General construction	No impact	n/a	No further mitigation required beyond the embedded mitigation described	No impact	n/a

Description of Effect	Significance of Likely Effect		Additional Mitigation Measure	Significance of Residual Effect	
	Significance	Beneficial/ Adverse		Significance	Beneficial/ Adverse
Designated haul-outs, Calf of Eday, Weather Ness, Seal Skerry and Rusk Holm: Borrow pit operations	No impact	n/a	Borrow pit operations Method statement to control works to limit duration of disturbance events caused by material extraction; use of sound barriers along the coastal edge of the secondary borrow pit to reduce extraction noise propagation; selection of plant for the lowest noise and vibration output possible, with sound barriers also to be available for deployment around stationary plant, such as generators	No impact	n/a
Designated haul-outs, Calf of Eday, Weather Ness Seal Skerry and Rusk Holm: General site operations	No impact	n/a	No further mitigation required beyond the embedded mitigation described	No impact	n/a
Designated haul-outs, Calf of Eday, Weather Ness Seal Skerry and Rusk Holm: General site operations	No impact	n/a	No further mitigation required beyond the embedded mitigation described	No impact	n/a

Description of Effect	Significance of Likely Effect		Additional Mitigation Measure	Significance of Residual Effect	
	Significance	Beneficial/ Adverse		Significance	Beneficial/ Adverse
Designated haul-outs: shipping route/s from Hatston Quay/other ports used for transportation of staff, plant and materials	Negligible and not significant	Adverse	Method Statement to ensure the least-disturbing route to site	Negligible and not significant	Adverse
Disturbance to standing water	No impact	n/a	Establishment of exclusion zones around waterbodies; operative awareness education to ensure the value of the island and its coastal environment is understood; development and application of a biosecurity plan	No impact	n/a
Intertidal boulders/rocks: habitat loss	Negligible and not significant	Adverse	Loss not possible to reverse. No further mitigation required beyond the embedded mitigation described	Negligible and not significant	Adverse
Disturbance to GWDTE marshy grassland with springs	Negligible and not significant	Adverse	No further mitigation required beyond the embedded mitigation described	No impact	n/a
Intertidal boulders/rocks	Negligible and not significant	Adverse	Loss not possible to reverse. No further mitigation required beyond the embedded mitigation described	Negligible and not significant	Adverse
Otter: main borrow pit operation	No impact	n/a	No further mitigation required beyond the embedded mitigation described	No impact	n/a

Description of Effect	Significance of Likely Effect		Additional Mitigation Measure	Significance of Residual Effect	
	Significance	Beneficial/ Adverse		Significance	Beneficial/ Adverse
Otter: secondary borrow pit operation	Negligible and not significant	Adverse	In addition to the embedded mitigation described, use of sound barriers around the shoreward side of the secondary borrow pit; soft start procedures	No impact	n/a
Otter: general construction activities	No impact	n/a	Species Protection Plan	No impact	n/a
Otter: Extended slipway and landing jetty construction disturbance to habitats	Negligible, local level and only locally significant	Adverse	Avoidance of creating any obstructions to established otter pathways, or access to open water as instructed by the ECoW; avoidance of working in the vicinity of identified otter habitat during the hours of darkness and within two hours after sunrise and two hours before sunset. This can be reduced to one hour between January and February, due to limited daylight, should construction be required at this point in the year (N.B. no works will occur during the seal breeding season (15 th September to 31 st December inclusive)	Negligible, local level and not significant	Adverse
Otter: Extended slipway and landing jetty operations	Negligible, local level and locally significant	Adverse	Method Statements for vessel movements and Extended slipway and landing jetty operations	Negligible, local level and not significant	Adverse

Description of Effect	Significance of Likely Effect		Additional Mitigation Measure	Significance of Residual Effect	
	Significance	Beneficial/ Adverse		Significance	Beneficial/ Adverse
Otter: site traffic mortality	Negligible and not significant	Adverse	Avoidance of creating any obstructions to established otter pathways, or access to open water as instructed by the ECoW; avoidance of working in the vicinity of identified otter habitat during the hours of darkness and within two hours after sunrise and two hours before sunset (reduced to one hour between January and February); application of site driving controls/Method Statement	No impact	n/a
Non-breeding grey seal: main borrow pit operation	Negligible and not significant	Adverse	Restrict extraction of material from the secondary borrow pit to periods when no seals are present within the landing facility and Scammalin Bay area. Where this is not possible, use of a standard "soft-start" procedure and Species Protection plan	No impact	n/a
Non-breeding grey seal: secondary borrow pit operation	Minor and not significant	Adverse	Restrict extraction of material from the secondary borrow pit to periods when no seals are present within the landing facility and Scammalin Bay area.; where this is not possible, use of a standard "soft-start" procedure and sound	Negligible	Adverse

Description of Effect	Significance of Likely Effect		Additional Mitigation Measure	Significance of Residual Effect	
	Significance	Beneficial/ Adverse		Significance	Beneficial/ Adverse
			barriers around the shoreward side of the secondary borrow pit		
Non-breeding grey seal: Extended slipway and landing jetty construction – habitat loss (haul-out and foraging resource)	Negligible and not significant	Adverse	Method Statement for responsible construction; Strict control of potential for human presence near hauled-out seals.	Negligible and not significant	Adverse
Non-breeding grey seal: Extended slipway and landing jetty construction and use during the construction phase – disturbance/ displacement	Minor and not significant	Adverse	Method Statement for responsible construction and landing facility operation; Strict control of potential for human presence near hauled-out seals.	Negligible and not significant	Adverse
9. Noise					
Noise from construction activities	Minor and not significant	Adverse	Implementation of appropriate noise controls regarding hours of work, timing of site deliveries, and use of best practice to minimise unnecessary noise.	Minor and not significant	Adverse
10. Cultural Heritage					
Direct impacts on non-designated assets of negligible importance recorded from historic maps (Sites 5, 12 and 109)	Minor and not significant	Adverse	A mitigation strategy in four stages is proposed; geophysical survey and trial trenching will be undertaken in the first instance. Should the results of the trial trenching indicate that further works are	Negligible and not significant	Adverse

Description of Effect	Significance of Likely Effect		Additional Mitigation Measure	Significance of Residual Effect	
	Significance	Beneficial/ Adverse		Significance	Beneficial/ Adverse
			required further excavation and post-excavation analysis will be undertaken.		
Direct impacts on known non-designated remains of low importance that are present on the site (Sites 73, 74, 114 and 119).	Minor and not significant	Adverse	A mitigation strategy in four stages is proposed; geophysical survey and trial trenching will be undertaken in the first instance. Should the results of the trial trenching indicate that further works are required further excavation and post-excavation analysis will be undertaken.	Negligible and not significant	Adverse
Direct impacts on previously unrecorded non-designated archaeological remains of potential medium or high importance that could be present on the site.	Major and significant	Adverse	A four-stage mitigation strategy is proposed; survey and trial trenching will be undertaken initially and will be followed by excavation and post-excavation analysis as necessary. Any significant remains will be preserved in situ wherever possible.	Negligible and not significant	Adverse
Temporary significant effects on the setting of Quoy Chambered Cairn (Site 1) during construction operation	Moderate and significant	Adverse	Effects on setting from heavy traffic movement and associated noise would cease on completion of construction.	Neutral	-
11. Geology, Hydrology and Hydrogeology					

Description of Effect	Significance of Likely Effect		Additional Mitigation Measure	Significance of Residual Effect	
	Significance	Beneficial/ Adverse		Significance	Beneficial/ Adverse
Pollution from silt-laden runoff	Negligible to Minor (non-significant)	Adverse	No additional mitigation than the standard mitigation identified.	Negligible to Minor (non-significant)	Adverse
Pollution from chemical contaminated runoff	Negligible to Minor (non-significant)	Adverse		Negligible to Minor (non-significant)	Adverse
Effect on groundwater quality and flow	Minor (non-significant)	Adverse		Minor (non-significant)	Adverse
12. Traffic and Transport					
Traffic impacts within the study area road network	Negligible and not significant	Adverse	No additional mitigation than the standard mitigation and provision of a Port Management Plan.	Negligible and non-significant	Adverse
13. Socio-economic, Recreation and Tourism					
Economic impact of £2.6 million GVA and 39 job years in Orkney	Minor and Not Significant	Beneficial	n/a	Minor and Not Significant	Beneficial
Economic impact of £10.4 million GVA and 161 job years in Scotland	Negligible and not significant.	Beneficial	n/a	Negligible and not significant.	Beneficial

Description of Effect	Significance of Likely Effect		Additional Mitigation Measure	Significance of Residual Effect	
	Significance	Beneficial/ Adverse		Significance	Beneficial/ Adverse
Economic impact of £0.2 million GVA and 5 job years in Orkney	Negligible and not significant.	Beneficial	n/a	Negligible and not significant.	Beneficial
Economic impact of £0.8 million GVA and 11 job years in Scotland	Negligible and not significant.	Beneficial	n/a	Negligible and not significant.	Beneficial
14. Aviation and Radar					
No construction phase effects anticipated.					
15. Shadow Flicker					
Shadow flicker nuisance on residential receptor	None	N/A	None required.	None	N/A
16. Underwater Noise Assessment					
Damage to hearing in local seal population from piling activities	Moderate and significant	Adverse	Use of a bubble curtain	Negligible and not significant	Adverse
Damage to hearing in local low-frequency cetaceans population from piling activities	Minor and not significant	Adverse	Use of a bubble curtain	Minor and not significant	Adverse
Damage to hearing in local mid-frequency cetaceans population from piling activities	Negligible and not significant	Adverse	Use of a bubble curtain	Negligible and not significant	Adverse

Description of Effect	Significance of Likely Effect		Additional Mitigation Measure	Significance of Residual Effect	
	Significance	Beneficial/ Adverse		Significance	Beneficial/ Adverse
Damage to hearing in local high-frequency cetaceans population from piling activities	Moderate and significant	Adverse	Use of a bubble curtain	Minor and not significant	Adverse
17. Marine Water and Sediment Quality					
Impact of dredging on marine water quality – suspended sediments	Negligible and not significant	Adverse	None required	Negligible and not significant	Adverse
Impact of dredging on marine water quality – chemical parameters	Negligible and not significant	Adverse	None required	Negligible and not significant	Adverse
Impact of dredging on sediment quality – chemical parameter and deposition parameter	Minor and not significant	Adverse	None required	Minor and not significant	Adverse
Impact of accidental spills and leaks on marine water and sediment quality during construction	Negligible and not significant	Adverse	CEMP	Negligible and not significant	Adverse
18. Other Issues					
Installation of the new extended slipway and landing jetty interrupting the natural coastal processes within the area	Negligible and not significant	Adverse	Where possible, efforts will be made to identify vessels, such as barges, that would not require anchoring or dredging, in order to limit the size of the	Negligible and not significant	Adverse

Description of Effect	Significance of Likely Effect		Additional Mitigation Measure	Significance of Residual Effect	
	Significance	Beneficial/ Adverse		Significance	Beneficial/ Adverse
			infrastructure and channel dredging requirements.		
Seabed disturbance via the installation of the new extended slipway and landing jetty	Minor and not significant	Adverse	Where possible, efforts will be made to identify vessels, such as barges, that would not require anchoring or dredging, in order to limit the size of the infrastructure and channel dredging requirements.	Minor and not significant	Adverse
Installation of the new extended slipway and landing jetty, including construction vessel movements, interrupting marine navigation	Negligible and not significant	Adverse	Turbine suppliers will be required to formulate a Port Management Plan with the OIC Marine Services (see above). Marine Safety Information and Notice to Mariners will be published prior to, and during, construction works following completion of the construction works, the UK Hydrographic Office will be notified of the as-built layout of the new slipway and jetty, along with the revised depths as a result of dredging	Negligible and not significant	Adverse
Construction of the new extended slipway and landing jetty could result in localised, temporary exclusion of	Negligible and not significant	Adverse	Consultation with the local fleet, via Orkney Fisheries, will continue as the design develops to ensure fishermen are aware of any works being undertaken	Negligible and not significant	Adverse

Description of Effect	Significance of Likely Effect		Additional Mitigation Measure	Significance of Residual Effect	
	Significance	Beneficial/ Adverse		Significance	Beneficial/ Adverse
commercial fishing within the area of construction			and any potential temporary displacement as a result of the works.		

Table 20.2 Summary of Residual Effects - Operation

Description of Effect	Significance of Likely Effect		Mitigation Measure	Significance of Residual Effect	
	Significance	Beneficial/ Adverse		Significance	Beneficial/ Adverse
6. Landscape and Visual					
Agricultural Land	N/A	N/A	None	N/A	N/A
Coast with Sand LCT Mussetter LCU	Significant	Adverse		Significant	Adverse
Holms LCT Holm of Faray LCU	Significant			Significant	
Holms LCT Rusk Holm LCU	Significant			Significant	
Inclined Coastal Pastures LCT Central Eday LCU	Significant – northern and central parts Not significant – southern part			Significant – northern and central parts Not significant – southern part	
Inclined Coastal Pastures LCT Fersness LCU	Significant – northern and central parts Not significant – southern parts			Significant – northern and central parts Not significant – southern parts	
Moorland Hills LCT South Eday LCU	Significant			Significant	

Description of Effect	Significance of Likely Effect		Mitigation Measure	Significance of Residual Effect	
	Significance	Beneficial/ Adverse		Significance	Beneficial/ Adverse
Moorland Hills LCT North Eday LCU	Significant		None	Significant	
Moorland Hills LCT: North-east Rousay LCU	Not significant			Not significant	
Ridgeline Island Landscapes LCT Westray LCU	Significant – southern part Not significant – northern part	Adverse		Significant – southern part Not significant – northern part	Adverse
Undulating Island Pastures LCT: Sanday LCU	Not significant			Not significant	
Undulating Island Pastures LCT: Westray LCU	Not significant			Not significant	
Whaleback Islands LCT: Faray LCU	Significant			Significant	
Whaleback Islands LCT: Egilsay LCU	Not significant			Not significant	
RCCA 3 Sanday West	Not significant	Not significant			
RCCA 5 Eday: LCCA 5c Red Head to Greenan Nev	Significant – southern and central section	Adverse		Significant – southern and central section	Adverse

Description of Effect	Significance of Likely Effect		Mitigation Measure	Significance of Residual Effect			
	Significance	Beneficial/ Adverse		Significance	Beneficial/ Adverse		
	Not significant – northern section		None	Not significant – northern section			
RCCA 5 Eday: LCCA 5d Fersness Bay	Significant			Significant			
RCCA 5 Eday: LCCA 5e Faray	Significant			Significant			
RCCA 5 Eday: LCCA 5f Holm of Faray	Significant			Significant			
RCCA 8 Westray North and East	Significant – southern coast Not significant – eastern and northern coasts			Significant – southern coast Not significant – eastern and northern coasts			
RCCA 10 Rousay North: LCCA 10b Saviskaill Bay	Not significant			Not significant			
RCCA 11 Rousay South: LCCA 11d Point of Avelshay to Cock Ness	Not significant			Not significant			
RCCA 12 Egilsay and Wyre	Not significant			Not significant			
Viewpoint 1: Guith, Eday	Significant			Adverse		Significant	Adverse
Viewpoint 2: Vinguoy Hill, Eday	Significant					Significant	

Description of Effect	Significance of Likely Effect		Mitigation Measure	Significance of Residual Effect	
	Significance	Beneficial/ Adverse		Significance	Beneficial/ Adverse
Viewpoint 3: Sands of Mussetter, Eday	Significant		None	Significant	
Viewpoint 4: Westray Ferry Terminal, Westray	Significant			Significant	
Viewpoint 5: Ness of Tuquoy, Westray	Significant			Significant	
Viewpoint 6: Spur Ness, Sanday;	Not significant			Not significant	
Viewpoint 7: North Bay, Sanday	Not significant			Not significant	
Viewpoint 8: John's Hill, North Stronsay	Not significant			Not significant	
Viewpoint 9: Kierfea Hill, East Rousay	Significant			Significant	
Viewpoint 10: Hatston, Kirkwall	Not significant			Not significant	
Viewpoint 11: Westray Ferry	Significant			Significant	
Northern Isles Ferries	Significant – out to 12 km south, 8 km north-west and 7 km north-east Not significant – all remaining sections			Significant – out to 12 km south, 8 km north-west and 7 km north-east Not significant – all remaining sections	

Description of Effect	Significance of Likely Effect		Mitigation Measure	Significance of Residual Effect	
	Significance	Beneficial/ Adverse		Significance	Beneficial/ Adverse
B9066, Westray	Significant – out to 7.5 km north-west Not significant – beyond 7.5 km north-west	Adverse	None	Significant – out to 7.5 km north-west Not significant – beyond 7.5 km north-west	Adverse
B9063, Eday	Significant – northern and central sections Not significant – southern section			Significant – northern and central sections Not significant – southern section	
ED1 Eday Heritage Walk	Significant			Significant	
ED5 Newark	Significant			Significant	
ED6 Sands of Mussetter	Significant			Significant	
W8 Castle o' Burrian and the Bay of Tafts; and	Significant – central sections Not significant – eastern and western sections	Adverse	Significant – central sections Not significant – eastern and western sections	Adverse	

Description of Effect	Significance of Likely Effect		Mitigation Measure	Significance of Residual Effect	
	Significance	Beneficial/ Adverse		Significance	Beneficial/ Adverse
R6 Faraclett Head	Significant		None	Significant	
7. Ornithology					
Red-throated diver – collision risk	Low and not significant	Adverse	None	Low and not significant	Adverse
Lapwing and golden plover – collision risk	Low and not significant	Adverse	None	Low and not significant	Adverse
Greylag goose / great skua /other wader collision risk	Barely Perceptible and not significant	Adverse	None	Barely Perceptible and not significant	Adverse
Storm Petrel	Low and not significant	Adverse	Creation of new breeding habitat in north of site with potential to double the island population. Continued biosecurity measures.	High and significant	Beneficial
Ground nesting waders and other species displacement	Low and not significant	Adverse	Grazing management to remain in place throughout the lifetime of scheme.	Low and not significant	Beneficial
8. Terrestrial Ecology					

Description of Effect	Significance of Likely Effect		Mitigation Measure	Significance of Residual Effect	
	Significance	Beneficial/ Adverse		Significance	Beneficial/ Adverse
Designated sites: Faray and Holm of Faray SAC and SSSI. Disturbance of breeding grey seals during maintenance visits	Negligible and not significant in terms of the overall SAC population; moderate and significant to individual animals within the EZoI	Adverse	Maintenance checks, including normal repair works/replacement of parts timed to avoid the seal breeding season (15 th September to 31 st December inclusive), where possible; if visits are still required, then these will be limited to the minimum, in order to reduce the potential for adverse impacts to any breeding seals close to the landing facility	Negligible effect to SAC population and individual animals; not significant	Adverse
Designated sites: Faray and Holm of Faray SAC and SSSI. Disturbance of breeding seals during unplanned major maintenance	Negligible and not significant in terms of the overall SAC population; minor and not significant to individual animals within the EZoI	Adverse	Method Statements and timing controls to reduce potential disturbance if in-season repair works are required: emergency plans and appropriate mitigations to be Method Statement controlled, with these agreed with NatureScot prior to works commencing. Maintenance check vessel routing to follow the same method statement as applied to the construction phase, in order to minimise disturbance to the seal haul-out populations	Negligible and not significant in terms of the overall SAC population; minor and not significant to individual animals within the EZoI	Adverse

Description of Effect	Significance of Likely Effect		Mitigation Measure	Significance of Residual Effect	
	Significance	Beneficial/ Adverse		Significance	Beneficial/ Adverse
Disturbance to standing water	No impact	n/a	None required	No impact	n/a
Disturbance to GWDTE marshy grassland with springs	No impact	n/a	None required	No impact	n/a
Intertidal boulders/rocks	No impact	n/a	None required	No impact	n/a
Otter: maintenance traffic	Negligible and not significant	Adverse	Application of maintenance and driving Method Statements	No impact	n/a
Non-breeding grey seals: general wind farm operation	No impact	n/a	None required	No impact	n/a
Non-breeding grey seals: maintenance disturbance	Minor and not significant	Adverse	Application of maintenance Method Statement; Maintenance check vessel routing to follow the same method statement as applied to the construction phase, in order to	Negligible and not significant	Adverse

Description of Effect	Significance of Likely Effect		Mitigation Measure	Significance of Residual Effect	
	Significance	Beneficial/ Adverse		Significance	Beneficial/ Adverse
			minimise disturbance to the seal haul-out populations		
Non-breeding grey seals: major maintenance works disturbance	Minor and not significant	Adverse	Application of maintenance Method Statement; maintenance check vessel routing to follow the same method statement as applied to the construction phase, in order to minimise disturbance to the seal haul-out populations	Negligible and not significant	Adverse
9. Noise					
Noise from non-turbine fixed plant	Minor and not significant	Adverse	Selection of plant which complies with specified maximum sound power level such that the derived noise limits are met.	Minor and not significant	Adverse
Noise from wind turbines	Neutral to moderate and not significant to significant	Adverse	A noise management plan may be required such that Residual Noise Limits are met at all NSRs at all wind speeds under down-wind conditions, however, predicted exceedances of noise limits are minor (≤ 1.9 dB).	Neutral to minor and not significant	Adverse

Description of Effect	Significance of Likely Effect		Mitigation Measure	Significance of Residual Effect	
	Significance	Beneficial/ Adverse		Significance	Beneficial/ Adverse
10. Cultural Heritage					
Moderate significant effects on the settings of Quoy Chambered Cairn (Site 1), Muckle Hill of Linkataing Chambered Cairn (Site 17), Vinguoy Hill Chambered Cairn (Site 40) and the Faray post-medieval landscape.	Moderate and significant	Adverse	Historic Building Recording to be undertaken to ensure better understanding and appreciation of the surviving extent and condition of upstanding built heritage remains on Eday and ensure a lasting legacy of their preservation by record for future generations prior to any further deterioration. Measured survey and recording of assets eroding from the coastal edge will help to preserve a record of their extent and nature before they are lost to coastal erosion.	Moderate and significant	Adverse
11. Geology, Hydrology and Hydrogeology					
Change in surface water drainage	Negligible (non-significant)	Adverse	No additional mitigation than the standard mitigation identified.	Negligible (non-significant)	Adverse
Long-term changes to groundwater flow regime	Minor (non-significant)	Adverse	No additional mitigation beyond the standard mitigation identified	Minor (non-significant)	Adverse
12. Traffic and Transport					

Description of Effect	Significance of Likely Effect		Mitigation Measure	Significance of Residual Effect	
	Significance	Beneficial/ Adverse		Significance	Beneficial/ Adverse
No significant operational effects anticipated.					
13. Socio-economic, Recreation and Tourism					
Annual O&M economic impact of £0.3 million GVA and 4 jobs in Orkney	Negligible and not significant.	n/a	n/a	Negligible and not significant.	n/a
Annual O&M economic impact of £0.5 million GVA and 9 jobs in Scotland	Negligible and not significant.	n/a	n/a	Negligible and not significant.	n/a
Contribution to the case for the interconnector	Moderate and significant.	Beneficial	n/a	Moderate and significant.	Beneficial
Annual payment of an estimated £0.5 million in non-domestic rates	Minor and not significant.	Beneficial	n/a	Minor and not significant.	Beneficial
Annual payment of £144,000 in a location specific community benefit fund	Minor and not significant.	Beneficial	n/a	Minor and not significant.	Beneficial
Annual profit of £2.88 million from ownership	Minor and not significant.	Beneficial	n/a	Minor and not significant.	Beneficial
Effect on tourism assets	Negligible and not significant.	n/a	n/a	Negligible and not significant.	n/a
Effect on core paths and recreational access	Negligible and not significant.	n/a	n/a	Negligible and not significant.	n/a

Description of Effect	Significance of Likely Effect		Mitigation Measure	Significance of Residual Effect	
	Significance	Beneficial/ Adverse		Significance	Beneficial/ Adverse
Effect on accommodation providers	Negligible and not significant.	n/a	n/a	Negligible and not significant.	n/a
14. Aviation and Radar					
No operational effects anticipated.					
15. Shadow Flicker					
Shadow flicker nuisance on residential receptor	Not significant	Adverse	None required.	None	N/A
16. Underwater Noise Assessment					
Vessel movements during maintenance visits	Negligible and not significant	Adverse	None considered		
17. Marine Water and Sediment Quality					
Impact of accidental spills and leaks on marine water and sediment quality by vessels required during maintenance visits	Negligible and not significant	Adverse	OEMP	Negligible and not significant	Adverse
18. Other Issues					
No operational effects anticipated.					

Table 20.3 Cumulative Effects

Receptor	Description of Effect	Cumulative Developments	Significance of Cumulative Effect	
			Significance	Beneficial/ Adverse
6. Landscape and Visual				
Agricultural Land	Landscape & Visual	N/A	N/A	N/A
Coast with Sand LCT Mussetter LCU		Sandy Banks, Westray Development Trust, Gallowhill, Newark, Spurness Point	Low or negligible Not significant	Adverse
Holms LCT Holm of Faray LCU		Spurness Point, Sandy Banks, Hammers Hill, Hammers Hill Extension, Kingarly Hill, Burgar Hill, Costa Head, Newark, Gallowhill, Westray Development Trust	Low or negligible Not significant	
Holms LCT Rusk Holm LCU		Spurness Point, Sandy Banks, Hammers Hill, Hammers Hill Extension, Kingarly Hill, Burgar Hill, Costa Head, Newark, Gallowhill, Westray Development Trust	Low or negligible Not significant	
Inclined Coastal Pastures LCT Central Eday LCU		Spurness Point, Stronsay Development Trust, Sandy Banks, Hammers Hill, Hammers Hill Extension, Kingarly Hill, Burgar Hill, Costa Head, Newark, Gallowhill, Westray Development Trust	Low or negligible Not significant	
Inclined Coastal Pastures LCT Fersness LCU		Spurness Point, Sandy Banks, Hammers Hill, Hammers Hill Extension, Kingarly Hill, Burgar Hill, Newark, Gallowhill, Westray Development Trust	Low or negligible Not significant	

Receptor	Description of Effect	Cumulative Developments	Significance of Cumulative Effect	
			Significance	Beneficial/ Adverse
Moorland Hills LCT South Eday LCU		Spurness Point, Stronsay Development Trust, Barnes of Ayre, Sandy Banks, Quanterness, Rennibister, Hammers Hill, Hammers Hill Extension, Kingarly Hill, Burgar Hill, Costa Head, Newark, Gallowhill, Westray Development Trust	Low or negligible Not significant	
Moorland Hills LCT North Eday LCU	Landscape & Visual	Spurness Point, Stronsay Development Trust, Barnes of Ayre, Sandy Banks, Hammers Hill, Hammers Hill Extension, Kingarly Hill, Burgar Hill, Newark, Gallowhill, Westray Development Trust	Low or negligible Not significant	Adverse
Moorland Hills LCT: North-east Rousay LCU		Newark, Sandy Banks, Barnes of Ayre, , Kingarly, Work Farm, Hammers Hill, Hammers Hill Extension, Holodykes, Burgar Hill, Costa Head	Low or negligible Not significant	
Ridgeline Island Landscapes LCT Westray LCU		Newark, Spurness Point, Sandy Banks, Upper Stove, Howe, Quanterness, Kingarly, Burgar Hill, Costa Head, Gallowhill, Westray Development Trust	Low or negligible Not significant	
Undulating Island Pastures LCT: Sanday LCU		Stronsay Development Trust, Spurness Point, Sandy Banks, Hammers Hill, Hammers Hill Extension, Kingarly Hill, Burgar Hill, Newark, Westray Development Trust, Gallowhill	Low or negligible Not significant	

Receptor	Description of Effect	Cumulative Developments	Significance of Cumulative Effect	
			Significance	Beneficial/ Adverse
Undulating Island Pastures LCT: Westray LCU	Landscape & Visual	Newark, Spurness Point, Sandy Banks, Upper Stove, Howe, Quanterness, Kingarly, Burgar Hill, Costa Head, Gallowhill, Westray Development Trust	Low or negligible Not significant	
Whaleback Islands LCT: Faray LCU		Spurness Point, Stronsay Development Trust, Barnes of Ayre, Upper Stove, Howe, Sandy Banks, Quanterness, Rennibister, Hammers Hill, Hammers Hill Extension, Kingarly Hill, Burgar Hill, Costa Head, Newark, Gallowhill Westray Development Trust	Low or negligible Not significant	
Whaleback Islands LCT: Egilsay LCU		Newark, Spurness Point, Sandy Banks, Barnes of Ayre, Upper Stove, Howe, Kingarly, Work Farm, Berriedale, Quanterness, Hammers Hill, Hammers Hill Extension, Holodykes, Burgar Hill, Costa Head	Low or negligible Not significant	
RCCA 3 Sanday West		Stronsay Development Trust, Spurness Point, Sandy Banks, Hammers Hill, Hammers Hill Extension, Kingarly Hill, Burgar Hill, Newark, Westray Development Trust, Gallowhill	Low Not significant	
RCCA 5 Eday: LCCA 5c Red Head to Greenan Nev		Spurness Point, Sandy Banks, Hammers Hill, Hammers Hill Extension, Kingarly Hill, Burgar Hill, Newark, Gallowhill, Westray Development Trust	Low Not significant	

Receptor	Description of Effect	Cumulative Developments	Significance of Cumulative Effect	
			Significance	Beneficial/ Adverse
RCCA 5 Eday: LCCA 5d Fersness Bay		Spurness Point, Sandy Banks, Hammers Hill, Hammers Hill Extension, Kingarly Hill, Burgar Hill, Newark, Gallowhill, Westray Development Trust	Low Not significant	
RCCA 5 Eday: LCCA 5e Faray		Spurness Point, Sandy Banks, Hammers Hill, Hammers Hill Extension, Kingarly Hill, Burgar Hill, Newark, Gallowhill, Westray Development Trust	Low Not significant	
RCCA 5 Eday: LCCA 5f Holm of Faray		Spurness Point, Sandy Banks, Hammers Hill, Hammers Hill Extension, Kingarly Hill, Burgar Hill, Costa Head, Newark, Gallowhill, Westray Development Trust	Low Not significant	
RCCA 8 Westray North and East		Newark, Spurness Point, Sandy Banks, Upper Stove, Howe, Qaunterness, Kingarly, Burgar Hill, Costa Head, Gallowhill, Westray Development Trust	Low Not significant	
RCCA 10 Rousay North: LCCA 10b Saviskaill Bay		Newark, Spurness Point, Sandy Banks, Barnes of Ayre, Upper Stove, Howe, Kingarly, Work Farm, Berriedale, Qaunterness, Hammers Hill, Hammers Hill Extension, Holodykes, Burgar Hill, Costa Head	Low Not significant	
RCCA 11 Rousay South: LCCA 11d Point of Avelshay to Scock Ness		Newark, Spurness Point, Sandy Banks, Barnes of Ayre, Upper Stove, Howe, Kingarly, Work Farm, Berriedale, Qaunterness, Hammers Hill, Hammers Hill Extension, Holodykes, Burgar Hill, Costa Head	Low Not significant	

Receptor	Description of Effect	Cumulative Developments	Significance of Cumulative Effect	
			Significance	Beneficial/ Adverse
RCCA 12 Egilsay and Wyre		Newark, Spurness Point, Sandy Banks, Barnes of Ayre, Upper Stove, Howe, Kingarly, Work Farm, Berriedale, Quanterness, Hammers Hill, Hammers Hill Extension, Holodykes, Burgar Hill, Costa Head	Low Not significant	
Viewpoint 1: Guith, Eday		Stronsay Development Trust, Sandy Banks, Quanterness, Rennibister, Hammers Hill, Hammers Hill Extension, Kingarly Hill, Burgar Hill, Costa Head, Westray Development Trust, Gallowhill, Newark	Medium-low Not significant	
Viewpoint 2: Vinquoy Hill, Eday		Spurness Point, Stronsay Development Trust, Barnes of Ayre, Upper Stove, Howe, Sandy Banks, Quanterness, Rennibister, Hammers Hill, Hammers Hill Extension, Kingarly Hill, Burgar Hill, Costa Head, Newark, Gallowhill Westray Development Trust	Medium-low Not significant	
Viewpoint 3: Sands of Mussetter, Eday	Landscape & Visual	Sandy Banks, Westray Development Trust, Gallowhill, Newark, Spurness Point	Negligible Not significant	Adverse
Viewpoint 4: Westray Ferry Terminal, Westray		Spurness Point, Sandy Banks, Howe, Work Farm, Crowness Business Park	Negligible Not significant	
Viewpoint 5: Ness of Tuquoy, Westray		Newark, Spurness Point, Sandy Banks, Upper Stove, Howe, Qaunterness, Kingarly, Burgar Hill, Costa Head, Gallowhill, Westray Development Trust	Low Not significant	

Receptor	Description of Effect	Cumulative Developments	Significance of Cumulative Effect	
			Significance	Beneficial/ Adverse
Viewpoint 6: Spur Ness, Sanday;		Spurness Point, Northfield, Berriedale, Howe, Quanterness,	Low Not significant	
Viewpoint 7: North Bay, Sanday		Stronsay Development Trust, Spurness Point, Sandy Banks, Hammers Hill, Hammers Hill Extension, Kingarly Hill, Burgar Hill, Newark, Westray Development Trust, Gallowhill	Negligible Not significant	
Viewpoint 8: John's Hill, North Stronsay		Barnes of Ayre, Stronsay Development Trust, Berriedale, Northfield, Work Farm, Howe, Crowness Business Park, Quanterness, Rennibister, Hammers Hill, Hammers Hill Extension, Kingarly Hill, Sandy Banks, Westray Development Trust, Gallowhill, Newark, Spurness Point	Low Not significant	
Viewpoint 9: Kierfea Hill, East Rousay		Newark, Spurness Point, Sandy Banks, Barnes of Ayre, Upper Stove, Howe, Kingarly, Work Farm, Berriedale, Quanterness, Hammers Hill, Hammers Hill Extension, Holodykes, Burgar Hill, Costa Head	Low Not significant	
Viewpoint 10: Hatston, Kirkwall		Kingarly Hill, Sandy Banks, Spurness, Stronday Development Trust, Howe, Work Farm, Crowness Business Park	Medium-low Not significant	
Viewpoint 11: Westray Ferry		Newark, Westray Development Trust, Gallowhill, Spurness Point, Upper Stove, Howe, Work Farm, Crowness Business Park, Quanterness, Rennibister,	Low Not significant	

Receptor	Description of Effect	Cumulative Developments	Significance of Cumulative Effect	
			Significance	Beneficial/ Adverse
		Hammers Hill, Hammers Hill Extension, Kingarly Hill, Sandy Banks		
Northern Isles Ferries		Newark, Westray Development Trust, Gallowhill, Spurness Point, Upper Stove, Howe, Work Farm, Crowness Business Park, Quanterness, Rennibister, Hammers Hill, Hammers Hill Extension, Kingarly Hill, Sandy Banks	Medium-low Not significant	
B9066, Westray	Landscape & Visual	Newark, Spurness Point, Sandy Banks, Upper Stove, Howe, Quanterness, Kingarly, Burgar Hill, Costa Head, Gallowhill, Westray Development Trust	Low Not significant	Adverse
B9063, Eday		Spurness Point, Stronsay Development Trust, Barnes of Ayre, Upper Stove, Howe, Sandy Banks, Hammers Hill, Hammers Hill Extension, Kingarly Hill, Burgar Hill, Newark, Gallowhill Westray Development Trust	Low Not significant	
ED1 Eday Heritage Walk		Spurness Point, Stronsay Development Trust, Barnes of Ayre, Upper Stove, Howe, Sandy Banks, Quanterness, Rennibister, Hammers Hill, Hammers Hill Extension, Kingarly Hill, Burgar Hill, Costa Head, Newark, Gallowhill Westray Development Trust	Low Not significant	
ED5 Newark		Stronsay Development Trust, Sandy Banks, Quanterness, Rennibister, Hammers Hill, Hammers Hill Extension,	Low Not significant	

Receptor	Description of Effect	Cumulative Developments	Significance of Cumulative Effect	
			Significance	Beneficial/ Adverse
		Kingarly Hill, Burgar Hill, Costa Head, Westray Development Trust, Gallowhill, Newark		
ED6 Sands of Mussetter		Sandy Banks, Westray Development Trust, Gallowhill, Newark, Spurness Point	Low Not significant	
W8 Castle o' Burrian and the Bay of Tafts; and		Newark, Spurness Point, Sandy Banks, Upper Stove, Howe, Qaunterness, Kingarly, Burgar Hill, Costa Head, Gallowhill, Westray Development Trust	Low Not significant	
R6 Faraclett Head		Newark, Spurness Point, Sandy Banks, Barnes of Ayre, Upper Stove, Howe, Kingarly, Work Farm, Berriedale, Qaunterness, Hammers Hill, Hammers Hill Extension, Holodykes, Burgar Hill, Costa Head	Low Not significant	
7. Ornithology				
Red-throated diver collision risk.	Collision mortality	A combined annual collision risk of 0.21 birds is predicted which is not considered to be significant	Barely Perceptible and not significant	Adverse
Wader collision risk / nest displacement	Disturbance, displacement and collision mortality	Wader data is not available for a number of developments across Orkney. Cumulative collision risk values for these species are very low. Some temporary displacement is likely during construction however with a HMP in place this will be offset	Barely Perceptible and not significant	Adverse
8. Terrestrial Ecology				

Receptor	Description of Effect	Cumulative Developments	Significance of Cumulative Effect	
			Significance	Beneficial/ Adverse
No significant cumulative effects anticipated.				
9. Noise				
All NSRs	Cumulative wind turbine noise	Multiple small turbine developments on Eday.	Minor and not significant	Adverse
10. Cultural Heritage				
Burn of Musetter standing stone (Site 22). Chambered cairns at The Manse (Site 23), Eday Church Hall (Site 24), Calf of Eday (Site 28) Bay of London (Site 33), Vinquoy Hill (Site 40), Fitty Hill (Site 124) and Howa Tower (Site 125)	Settings Effect	Spurness Point on Sanday, Gallowhill and Westray Development Trust on Westray and Hammars Hill Rennibister and Crowness Business Park turbines on Mainland	Minor and not significant	Adverse
Quoy Chambered Cairn (Site 1), Muckle Hill of Linkataing Chambered Cairn (Site 17), Dale Burnt Mound (Site 35) Helzie Windmill (Site	Settings Effects	Spurness Point on Sanday, Gallowhill and Westray Development Trust on Westray and Hammars Hill Rennibister and Crowness Business Park turbines on Mainland	No additional cumulative effect	N/A

Receptor	Description of Effect	Cumulative Developments	Significance of Cumulative Effect	
			Significance	Beneficial/ Adverse
48) Rusk Holm (Site 49) Sangar croft house (Site 50) and the Faray post-medieval landscape.				
Direct impacts on known non-designated assets on Faray	Direct Effects	Spurness Point on Sanday, Gallowhill and Westray Development Trust on Westray and Hammars Hill Rennibister and Crowness Business Park turbines on Mainland	Negligible and not significant	N/A
Unknown archaeological remains	Direct Effects	Spurness Point on Sanday, Gallowhill and Westray Development Trust on Westray and Hammars Hill Rennibister and Crowness Business Park turbines on Mainland	Negligible and not significant	N/A
11. Geology, Hydrology and Hydrogeology				
No significant cumulative effects anticipated.				
12. Traffic and Transport				
Traffic impacts within the study area	Minor	Costa Head Wind Farm (assuming construction date of 2023)	No cumulative effects	Adverse
Traffic impacts within Finstown	Minor	Costa Head Wind Farm (assuming construction date of 2024)	Minor and not significant	Adverse

Receptor	Description of Effect	Cumulative Developments	Significance of Cumulative Effect	
			Significance	Beneficial/ Adverse
13. Socio-economic, Recreation and Tourism				
Local Supply Chain Cumulative Effects	Minor and not significant	Beneficial	Minor and not significant	Beneficial
Cumulative Tourism Effects	Negligible and not significant	N/A	Negligible and not significant	n/a
14. Aviation and Radar				
No significant cumulative effects anticipated.				
15. Shadow Flicker				
No receptors found	No effect	None	None	N/A
16. Underwater Noise Assessment				
Marine mammals	Hearing loss and behavioural disturbance	None in the area	No effect	N/A
17. Marine Water and Sediment Quality				
Marine water and sediment quality	Effects on suspended sediments, and chemical parameters	None in the area	No effect	N/A
18. Other Issues				

Receptor	Description of Effect	Cumulative Developments	Significance of Cumulative Effect	
			Significance	Beneficial/ Adverse
No cumulative effects anticipated.				

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