

18 Summary of Residual Effects

Contents

18.1	Introduction	18-1
18.2	Construction and Decommissioning Residual Effects	18-2
18.3	Operational Residual Effects	18-15
18.4	Cumulative Effects	18-32

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18 Summary of Residual Effects

18.1 Introduction

- 18.1.1 Tables 18.1 and 18.2 provide a quick reference to each of the residual environmental effects identified in the technical sections of the 2019 EIA Report and what the re-assessed significance is under the 2020 layout. Those in **bold** text are to highlight where the assessed significance has changed.
- 18.1.2 Table 18.3 provides a summary of the cumulative effects of the Proposed Development in combination with other proposed, consented and operational developments, and the re-assessed significance of these effects under the 2020 layout.

18.2 Construction and Decommissioning Residual Effects

Table 18.1 Summary of Residual Effects – Construction and Decommissioning/Restoration Phases

Description of Effect	2019 Residual Effect			2020 Residual Effect		
	Significance	Significant	Beneficial/ Adverse	Significance	Significant	Beneficial/ Adverse
5. Landscape and Visual						
It is considered that landscape and visual effects during construction and decommissioning will be significantly lesser than those during operation due to their temporary, short term nature. Therefore, assessment of operational effects are considered to cover the impact of the development as a whole, which are detailed below in Table 18.2.				Unchanged.		
6. Ornithology						
Bluemull and Colgrave Sounds SPA: disturbance and displacement of red-throated diver	Negligible	Non-significant	Adverse	Negligible	Non-significant	Adverse
Fetlar SPA: disturbance and displacement of dunlin and great skua	Negligible	Non-significant	Adverse	Negligible	Non-significant	Adverse
East Mires SSSI: disturbance and displacement of moorland breeding birds	Negligible	Non-significant	Adverse	Negligible	Non-significant	Adverse
Hascosay SSSI: disturbance and displacement of dunlin	Negligible	Non-significant	Adverse	Negligible	Non-significant	Adverse

Description of Effect	2019 Residual Effect			2020 Residual Effect		
	Significance	Significant	Beneficial/ Adverse	Significance	Significant	Beneficial/ Adverse
North Fetlar SSSI: disturbance and displacement of great skua	Negligible	Non-significant	Adverse	Negligible	Non-significant	Adverse
Lamb Hoga SSSI: disturbance and displacement of dunlin and great skua	Negligible	Non-significant	Adverse	Negligible	Non-significant	Adverse
Greylag Goose disturbance and displacement.	Negligible	Non-significant	Adverse	Negligible	Non-significant	Adverse
Red-throated diver disturbance and displacement.	Locally significant		Adverse	Locally significant		Adverse
Curlew disturbance and displacement.	Locally significant		Adverse	Locally significant		Adverse
Dunlin disturbance and displacement.	Locally significant		Adverse	Locally significant		Adverse
Golden plover disturbance and displacement.	Locally significant		Adverse	Locally significant		Adverse
Redshank disturbance and displacement.	Negligible	Non-significant	Adverse	Negligible	Non-significant	Adverse
Ringed Plover disturbance and	Negligible	Non-significant	Adverse	Negligible	Non-significant	Adverse

Description of Effect	2019 Residual Effect			2020 Residual Effect		
	Significance	Significant	Beneficial/ Adverse	Significance	Significant	Beneficial/ Adverse
displacement.						
Snipe disturbance and displacement.	Locally significant		Adverse	Locally significant		Adverse
Great skua disturbance and displacement.	Locally significant		Adverse	Locally significant		Adverse
Arctic skua disturbance and displacement.	Locally significant		Adverse	Locally significant		Adverse
Merlin disturbance and displacement.	Locally significant		Adverse	Locally significant		Adverse
7. Ecology and Nature Conservation						
Construction						
Permanent loss of habitat: U5a and U6a unimproved acid grassland	Barely perceptible, not significant on Local scale	Non-significant	Adverse	Barely perceptible, not significant on Local scale	Non-significant	Adverse
Temporary disturbance of habitat: U5a and U6a unimproved acid grassland	Barely perceptible, not significant on Local scale	Non-significant	Adverse	Barely perceptible, not significant on Local scale	Non-significant	Adverse
Permanent loss of habitat: blanket bog	Long-term low impact, significant	Significant	Adverse	Long-term low impact, significant	Significant	Adverse

Description of Effect	2019 Residual Effect			2020 Residual Effect		
	Significance	Significant	Beneficial/ Adverse	Significance	Significant	Beneficial/ Adverse
	on National area scale			on National area scale		
Temporary disturbance of habitat: blanket bog	Barely perceptible, not significant at a Local area scale	Non-significant	Adverse	Barely perceptible, not significant at a Local area scale	Non-significant	Adverse
Standing and running water - habitat loss	Barely perceptible, on a Local scale	Non-significant	Adverse	Barely perceptible, on a Local scale	Non-significant	Adverse
Otter - disturbance	Barely perceptible, immediate, very temporary significant (locally)	Non-significant	Adverse	Barely perceptible, immediate, very temporary significant (locally)	Non-significant	Adverse
Otter – mortality (vehicles, construction works)	Barely perceptible, on a Local scale	Non-significant	Adverse	Barely perceptible, on a Local scale	Non-significant	Adverse
Fish – mortality (pollution)	No impact	Non-significant	N/A	No impact	Non-significant	N/A
8. Noise						
Construction						
Noise from on-site construction activities	Neutral	Non-significant	Adverse	Neutral	Non-significant	Adverse
Change in road traffic noise	Neutral	Non-significant	Adverse	Neutral	Non-significant	Adverse

Description of Effect	2019 Residual Effect			2020 Residual Effect		
	Significance	Significant	Beneficial/ Adverse	Significance	Significant	Beneficial/ Adverse
due construction traffic						
Decommissioning						
Noise from on-site construction activities	Neutral	Non-significant	Adverse	Neutral	Non-significant	Adverse
9. Cultural Heritage						
Construction						
Potential partial damage to former road from Heatherdale to Cullivoe (Site 148)	Negligible	Non-significant	Adverse	Negligible	Non-significant	Adverse
Damage to hitherto unknown archaeological remains	Negligible	Non-significant	Adverse	Negligible	Non-significant	Adverse
Decommissioning						
No effects are anticipated to Cultural Heritage during decommissioning				Unchanged		
10. Geology, Peat, Hydrology and Hydrogeology						
Construction						
<i>Erosion / Sedimentation</i>						
Water Quality	Minor to Minor/	Non-significant	Adverse	Minor to Minor/	Non-significant	Adverse

Description of Effect	2019 Residual Effect			2020 Residual Effect		
	Significance	Significant	Beneficial/ Adverse	Significance	Significant	Beneficial/ Adverse
	Moderate, Minor/Moderate for the Gossa Water DWPA due to its sensitivity.			Moderate, Minor/Moderate for the Gossa Water DWPA due to its sensitivity.		
Drainage Alteration	Minor to Minor/Moderate Minor/Moderate for the Gossa Water DWPA due to its sensitivity.	Non-significant	Adverse	Minor to Minor/ Moderate, Minor/Moderate for the Gossa Water DWPA due to its sensitivity.	Non-significant	Adverse
Peat Disturbance	Minor	Non-significant	Adverse	Minor	Non-significant	Adverse
Peat Slide	Minor	Non-significant	Adverse	Minor	Non-significant	Adverse
<i>Pollution</i>						
Water Quality	Minor to Minor/ Moderate, Minor/Moderate for the Gossa Water DWPA due to its sensitivity.	Non-significant to Significant	Adverse	Minor to Minor/ Moderate, Minor/Moderate for the Gossa Water DWPA due to its sensitivity.	Non-significant to Significant	Adverse
		Non-significant			Non-significant	
<i>Natural Drainage Alteration</i>						
Watercourse Crossings	Minor	Non-significant	Adverse	Minor	Non-significant	Adverse

Description of Effect	2019 Residual Effect			2020 Residual Effect		
	Significance	Significant	Beneficial/ Adverse	Significance	Significant	Beneficial/ Adverse
Watercourse Diversions	Moderate	Significant	Adverse	Minor	Non-significant	Adverse
Bog Pools and waterbodies	Minor to Moderate, Moderate where the excavation of bog pools cannot be avoided and are classified as Oligiotrophic and Dystrophic standing water habitats in the Ecology Chapter 7.	Non-significant to Significant	Adverse	Minor to Moderate, Moderate where the excavation of bog pools cannot be avoided and are classified as Oligiotrophic and Dystrophic standing water habitats in the Ecology Chapter 7.	Non-significant to Significant	Adverse
Peat Slide	Minor	Non-significant	Adverse	Minor	Non-significant	Adverse
<i>Geological Alteration</i>						
Disturbance of peat	Minor to Major Major, where excavation of Annex I deep peat cannot be avoided	Non-significant to Significant	Adverse	Minor to Major Major, where excavation of Annex I deep peat cannot be avoided	Non-significant to Significant	Adverse
Peat Slide	Minor	Non-significant	Adverse	Minor	Non-significant	Adverse
Decommissioning						
<i>Erosion / Sedimentation</i>						

Description of Effect	2019 Residual Effect			2020 Residual Effect		
	Significance	Significant	Beneficial/ Adverse	Significance	Significant	Beneficial/ Adverse
Water Quality	Minor to Minor/ Moderate, Minor/Moderate for the Gossa Water DWPA due to its sensitivity.	Non-significant	Adverse	Minor to Minor/ Moderate, Minor/Moderate for the Gossa Water DWPA due to its sensitivity.	Non-significant	Adverse
Drainage Alteration	Minor to Minor/Moderate Minor/Moderate for the Gossa Water DWPA due to its sensitivity.	Non-significant	Adverse	Minor to Minor/Moderate Minor/Moderate for the Gossa Water DWPA due to its sensitivity.	Non-significant	Adverse
Peat Disturbance	Minor	Non-significant	Adverse	Minor	Non-significant	Adverse
Peat Slide	Minor	Non-significant	Adverse	Minor	Non-significant	Adverse
<i>Pollution</i>						
Water Quality	Minor to Minor/ Moderate, Minor/Moderate for the Gossa Water DWPA due to its sensitivity.	Non-significant to Significant	Adverse	Minor to Minor/ Moderate, Minor/Moderate for the Gossa Water DWPA due to its sensitivity.	Non-significant to Significant	Adverse
<i>Geological Alteration</i>						

Description of Effect	2019 Residual Effect			2020 Residual Effect		
	Significance	Significant	Beneficial/ Adverse	Significance	Significant	Beneficial/ Adverse
Disturbance of peat	Minor	Non-significant	Beneficial	Minor	Non-significant	Beneficial
11. Traffic and Transport						
Construction						
Severance to users of Old Cullivoe Road / CPPY04 resulting from HGV traffic movements	Moderate	Significant	Adverse	Moderate	Significant	Adverse
Amenity of pedestrians (cyclists and horse riders) using Old Cullivoe Road / CPPY04 resulting from HGV traffic movements	Moderate	Significant	Adverse	Moderate	Significant	Adverse
Fear and Intimidation affecting pedestrians (cyclists and horse riders) using Old Cullivoe Road / CPPY04	Moderate	Significant	Adverse	Moderate	Significant	Adverse
Decommissioning						
Effects will be similar to those identified during the construction period. However, as traffic flows are anticipated to be lower they are anticipated to be less significant				Unchanged		

Description of Effect	2019 Residual Effect			2020 Residual Effect		
	Significance	Significant	Beneficial/ Adverse	Significance	Significant	Beneficial/ Adverse
12. Socio-Economic, Tourism and Recreation						
Socio-Economics						
Effects on employment in Shetland (regional) during development and construction of the Proposed Development.	Moderate	Significant	Beneficial	Moderate	Significant	Beneficial
Effects on employment in Scotland (regional) during development and construction of the Proposed Development.	Moderate	Significant	Beneficial	Minor	Not-significant	Beneficial
Effects on capital expenditure in Shetland (regional) during construction of the Proposed Development.	Moderate	Significant	Beneficial	Moderate	Significant	Beneficial
Effects on capital expenditure in Scotland (national) during construction of the Proposed Development.	Minor	Non-Significant	Beneficial	Minor	Non-Significant	Beneficial
Employment impact in Shetland during decommissioning phase of the	Minor	Non-Significant	Beneficial	Minor	Non-Significant	Beneficial

Description of Effect	2019 Residual Effect			2020 Residual Effect		
	Significance	Significant	Beneficial/ Adverse	Significance	Significant	Beneficial/ Adverse
Proposed Development						
Employment impact in Scotland during decommissioning phase of the Proposed Development	Minor	Non-Significant	Beneficial	Negligible	Non-Significant	N/A
Socio-economic impact of decommissioning in Shetland	Minor	Non-Significant	Beneficial	Minor	Non-Significant	Beneficial
Socio-economic impact of decommissioning in Scotland	Minor	Non-Significant	Beneficial	Negligible	Non-Significant	N/A
Tourism and Recreation						
Direct effects on Core Path CPPY04 identified within the site during construction of the Proposed Development.	Negligible	Non-Significant	Adverse	Negligible	Non-Significant	Adverse
Indirect effects on other Core Paths identified within the Study Area during the construction of the Proposed Development.	Negligible	Non-Significant	Adverse	Negligible	Non-Significant	Adverse
Direct effects on NCN1 identified within the Study Area during the construction of the Proposed Development.	Negligible	Non-Significant	Adverse	Negligible	Non-Significant	Adverse
Indirect effects on	Minor	Non-Significant	Beneficial	Minor	Non-Significant	Beneficial

Description of Effect	2019 Residual Effect			2020 Residual Effect		
	Significance	Significant	Beneficial/ Adverse	Significance	Significant	Beneficial/ Adverse
accommodation receptors during construction of the Proposed Development.						
Direct effects on Core Paths CPPY04 identified within the site during decommissioning of the Proposed Development.	Negligible	Non-Significant	Adverse	Negligible	Non-Significant	Adverse
Direct effects on NCN1 identified within the Study Area during the decommissioning phase of the Proposed Development.	Negligible	Non-Significant	Adverse	Negligible	Non-Significant	Adverse
Indirect effects on other Core Paths identified within the Study Area during the decommissioning phase of the Proposed Development.	Negligible	Non-Significant	Adverse	Negligible	Non-Significant	Adverse
Indirect effects on accommodation receptors during the decommissioning phase of the Development.	Minor	Non-Significant	Adverse	Minor	Non-Significant	Adverse
Land-use						
The effects on the land-use within the site and immediate vicinity during the	Negligible	Non-Significant	N/A	Negligible	Non-Significant	N/A

Description of Effect	2019 Residual Effect			2020 Residual Effect		
	Significance	Significant	Beneficial/ Adverse	Significance	Significant	Beneficial/ Adverse
construction of the Development.						
The effects on the land-use within the site and immediate vicinity during the decommissioning phase of the Proposed Development.	Negligible	Non-Significant	N/A	Negligible	Non-Significant	N/A
Wider Economic Benefits						
Increased construction opportunity in the wider supply chain.	Minor	Non-Significant	Beneficial	Minor	Non-Significant	Beneficial
13. Aviation and Radar						
Presence of tall cranes	Minor	Non-Significant	Adverse	Minor	Non-Significant	Adverse
14. Shadow Flicker						
No effects anticipated during construction or decommissioning				Unchanged		
15. Telecommunication						
No effects anticipated during construction or decommissioning				Unchanged		

18.3 Operational Residual Effects

Table 18.2 Summary of Residual Effects - Operation

Description of Effect	2019 Residual Effect			2020 Residual Effect		
	Significance	Significant	Beneficial/ Adverse	Significance	Significant	Beneficial/ Adverse
5. Landscape and Visual						
Landscape						
LCA A3 Ronas Hill	Moderate	Not significant	Adverse	Moderate	Not significant	Adverse
LCA A4 Unst Uplands	Locally Major/Moderate from Valla Field Elsewhere no greater than Moderate	Significant Not significant	Adverse	Locally Major/Moderate from Valla Field Elsewhere no greater than Moderate	Significant Not significant	Adverse
LCA B1 Yell Peatland	Locally Major/Moderate within 3km Elsewhere no greater than Moderate/Minor	Significant Not significant	Adverse	Locally Major/Moderate within 3km Elsewhere no greater than Moderate/Minor	Significant Not significant	Adverse
LCA C2 Undulating Moorland with Lochs North Roe	Moderate/Minor	Not significant	Adverse	Moderate/Minor	Not significant	Adverse

Description of Effect	2019 Residual Effect			2020 Residual Effect		
	Significance	Significant	Beneficial/ Adverse	Significance	Significant	Beneficial/ Adverse
LCA E3 Coastal Crofting and Grazing Lands	Locally Major/Moderate from North Yell Elsewhere no greater than Moderate	Significant Not significant	Adverse	Locally Major/Moderate from North Yell Elsewhere no greater than Moderate	Significant Not significant	Adverse
LCA E4 Unst Coastal Crofting	Moderate	Not significant	Adverse	Moderate	Not significant	Adverse
LCA F5 Scattered Settlement / Crofting and Grazing Lands	Locally Major/Moderate Elsewhere slight	Significant Not significant	Adverse	Locally Major/Moderate Elsewhere slight	Significant Not significant	Adverse
LCA G1 Coastal Edge	Moderate	Not significant	Adverse	Moderate	Not significant	Adverse
CCA 12, Bluemull Sound	Locally Moderate from eastern edge of Bluemull Sound	Not significant	Adverse	Locally Moderate from eastern edge of Bluemull Sound	Not significant	Adverse
CCA 14, Colgrave Sound	Moderate from Basta Voe Moderate/Minor elsewhere	Not significant Not significant	Adverse	Moderate from Basta Voe Moderate/Minor elsewhere	Not significant Not significant	Adverse
CCA 18, Gloup Breckon	Major/Moderate	Significant	Adverse	Major/Moderate	Significant	Adverse

Description of Effect	2019 Residual Effect			2020 Residual Effect		
	Significance	Significant	Beneficial/ Adverse	Significance	Significant	Beneficial/ Adverse
				locally from Gloup. Moderate/Minor elsewhere.	Not significant	
CCA 19, Hermaness	Major/Moderate locally south of Wood Wick Elsewhere Minor	Significant Not significant	Adverse	Major/Moderate locally south of Wood Wick Elsewhere Minor	Significant Not significant	Adverse
CCA 21, Whalefirth	Major/Moderate	Significant	Adverse	Major/Moderate locally from the west coast of Whale Firth and the Nev of Stuis. Elsewhere	Significant Not significant	Adverse
CCA 24, North Roe Coast	Locally Moderate from the Point of Fethaland and North West Roe Elsewhere no greater than Minor	Not significant	Adverse	Locally Moderate from the Point of Fethaland and North West Roe Elsewhere no greater than Minor	Not significant	Adverse
CCA 27, Yell Sound	Moderate from the north western	Not significant	Adverse	Moderate from the north western	Not significant	Adverse

Description of Effect	2019 Residual Effect			2020 Residual Effect		
	Significance	Significant	Beneficial/ Adverse	Significance	Significant	Beneficial/ Adverse
	extent of the CCA Minor or None Elsewhere			extent of the CCA Minor or None Elsewhere		
Hermaness NSA	The special qualities of the sub area of the NSA will not be altered by the Proposed Development			The Special Landscape Qualities of the Hermaness and Fethaland sub areas of the Shetland NSA will not be at risk or damaged by the Proposed Development and the integrity of the Shetland NSA will be maintained.		
Fethaland NSA	The special qualities of the sub area of the NSA will not be altered by the Proposed Development					
Ronas Hill, LLA	The key characteristics of the LLAs will not be altered.			The key characteristics of the LLAs will not be altered		
Wick of Tresta, Fetlar, LLA						
Colvadale and Muness, Unst, LLA						
Haroldswick and Skaw, LLA						
Gloup Voe and Bluemull Sound, LLA	The key characteristics and integrity of the LLA will be locally altered between Breckon Sands and Gloup Voe, with a reduction in the scenic qualities of the LLA.			Across the majority of the LLA, the key characteristics and integrity will not be altered. There will be a local reduction in the scenic qualities experienced from within Gloup Voe.		
West Sandwick to Gloup Holm, Yell, LLA	The key characteristics and integrity of the LLA will be locally altered by the Proposed Development between North Neaps and Whale Firth, with a reduction in the scenic qualities of the LLA			The key characteristics and integrity of the LLA will be very locally altered by the Proposed Development at North Neaps and the Stuis of Graveland, with a reduction in the scenic qualities of the LLA.		

Description of Effect	2019 Residual Effect			2020 Residual Effect		
	Significance	Significant	Beneficial/ Adverse	Significance	Significant	Beneficial/ Adverse
Belmont House, GDL	Major/Moderate	Significant	Adverse	Major/Moderate	Significant	Adverse
Brough Lodge, GDL	Major/Moderate	Significant	Adverse	Major/Moderate	Significant	Adverse
Ronas Hill and North Roe Wild Land Area	Slight	Not significant	Adverse	Slight	Not significant	Adverse
Visual - Settlements						
Southern Cluster: Sellafirth; Cunnister.	Major	Significant	Adverse	Major	Significant	Adverse
Eastern Cluster: Stronganess; Cullivoe; Greenbank.	Major/Moderate	Significant	Adverse	Major/Moderate- Cullivoe Moderate/Minor – Stronganess and Greenbank	Significant Not significant	Adverse
North Eastern Cluster: Haa of Houlland; Midbrake; North and South Brough; Breckon.	Major/Moderate	Significant	Adverse	Moderate/Minor – Breckon Major/Moderate - elsewhere	Not significant Significant	Adverse
Northern Cluster: Gloup; The Kirks	Major	Significant	Adverse	Major/Moderate	Significant	Adverse

Description of Effect	2019 Residual Effect			2020 Residual Effect		
	Significance	Significant	Beneficial/ Adverse	Significance	Significant	Beneficial/ Adverse
Belmont	Major/Moderate	Significant	Adverse	Major/Moderate	Significant	Adverse
Westing Cluster: Burragarth; Underhoull; Houllnan; Westing; Newgord.	Major/Moderate	Significant	Adverse	Major/Moderate	Significant	Adverse
Mid Yell	Moderate	Not significant	Adverse	Moderate	Not significant	Adverse
North Roe, besides Burra Voe	Moderate	Not significant	Adverse	Moderate	Not significant	Adverse
Visual - Viewpoints						
1. Tittyans Hill, Yell	Walkers – Major Crofters – Major/Moderate	Significant	Adverse	Walkers – Major Crofters – Major/Moderate	Significant	Adverse
2. Fishermen's Memorial, Gloup	Residents / Walkers / Visitors – Major Crofters – Major/Moderate	Significant	Adverse	Residents / Walkers / Visitors - Major/Moderate	Significant	Adverse
3. Haa of Houlland	Residents, Major/ Moderate	Significant	Adverse	Residents, Major/ Moderate	Significant	Adverse
4. Cullivoe	Residents, Major/	Significant	Adverse	Residents, Major/	Significant	Adverse

Description of Effect	2019 Residual Effect			2020 Residual Effect		
	Significance	Significant	Beneficial/ Adverse	Significance	Significant	Beneficial/ Adverse
	Moderate			Moderate		
5. Sands of Breckon	Visitors, Major/ Moderate	Significant	Adverse	Visitors, Moderate	Not significant	Adverse
6. A968 / NCR1 Colvister	Road Users - Major / Moderate – Significant Cyclists – Major	Significant	Adverse	Road Users - Major / Moderate Cyclists – Major	Significant	Adverse
7. Cunnister, Basta Voe	Residents, Major	Significant	Adverse	Residents, Major	Significant	Adverse
8. Nev of Stuis, Yell	Walkers, Major/Moderate	Significant	Adverse	Walkers – Major/Moderate	Significant	Adverse
9. Belmont House, Unst	Visitors, Major/Moderate	Significant	Adverse	Visitors, Major/Moderate	Significant	Adverse
10. Westing, Unst	Residents, Major/Moderate	Significant	Adverse	Residents, Major/Moderate	Significant	Adverse
11. Grimster, Whale Firth, Yell	Residents, Minor	Not significant	Adverse	Residents, Minor	Not significant	Adverse
12. Brough Lodge, Fetlar	Visitors, Major / Moderate	Significant	Adverse	Visitors, Major / Moderate	Significant	Adverse
13. A968 / NCR1, middle Yell	Road Users –	Not significant	Adverse	Road Users –	Not significant	Adverse

Description of Effect	2019 Residual Effect			2020 Residual Effect		
	Significance	Significant	Beneficial/ Adverse	Significance	Significant	Beneficial/ Adverse
	Moderate/Minor Cyclists – Moderate			Moderate/Minor Cyclists – Moderate		
14. Wood Wick, Unst	Walkers, Major / Moderate	Significant	Adverse	Walkers, Major / Moderate	Significant	Adverse
15. B9081, Hill of Reafirth	Road Users, Moderate	Not significant	Adverse	Road Users, Moderate	Not significant	Adverse
16. Point of Fethaland, North Roe	Walkers, Major / Moderate	Significant	Adverse	Walkers, Major / Moderate	Significant	Adverse
17. Loch of Houllsquey, North Roe	Walkers, Major / Moderate	Significant	Adverse	Walkers, Major / Moderate	Significant	Adverse
18. Hermaness Hill	Walkers, Moderate	Not significant	Adverse	Walkers, Moderate	Not significant	Adverse
19. Settlement at Burra Voe, A970, North Roe	Residents – Moderate Road Users – Moderate/Minor	Not significant	Adverse	Residents – Moderate Road Users – Moderate/Minor	Not significant	Adverse
20. Ronas Hill	Walkers, Major/ Moderate	Significant	Adverse	Walkers, Major/ Moderate	Significant	Adverse
21. A968 / NCR 1 Hill of Swinster	Road Users – Minor Cyclists –	Not significant	Adverse	Road Users – Minor Cyclists –	Not significant	Adverse

Description of Effect	2019 Residual Effect			2020 Residual Effect		
	Significance	Significant	Beneficial/ Adverse	Significance	Significant	Beneficial/ Adverse
	Moderate/ Minor			Moderate/ Minor		
Visual - Night Time Lighting						
Viewpoint 1, Haa of Houlland, Yell	Major/ Moderate effect on residents.	Significant	Adverse	Major/ Moderate effect on residents.	Significant	Adverse
Viewpoint 2, Cunnister, Yell	Major effect on residents.	Significant	Adverse	Major effect on residents.	Significant	Adverse
Viewpoint 3, Westing, Unst	Major effect on residents.	Significant	Adverse	Major/ Moderate effect on residents.	Significant	Adverse
Visual - Residential Visual Amenity						
Property Cluster 1: New House, Up House, Sellafirth House, School House/Old School House, Sellafirth Road	Major effect on residents. The RVAA threshold is not reached.	Significant	Adverse	Major effect on residents. The RVAA threshold is not reached.	Significant	Adverse
Property Cluster 2: Heath Cottage, Innhouse, Sellafirth Road (A968)	Major effect on residents. The RVAA threshold is not reached.	Significant	Adverse	Major effect on residents. The RVAA threshold is not reached.	Significant	Adverse
Property Cluster 3: Easterhouse and Gloup Haa, South Gloup	Major effect on residents. The RVAA	Significant	Adverse	Major/Moderate effect on residents. The RVAA	Significant	Adverse

Description of Effect	2019 Residual Effect			2020 Residual Effect		
	Significance	Significant	Beneficial/ Adverse	Significance	Significant	Beneficial/ Adverse
	threshold is not reached.			threshold is not reached.		
Property Cluster 4: New House and The Kirks, Gloup	Major effect on residents. The RVAA threshold is not reached.	Significant	Adverse	Major/Moderate effect on residents. The RVAA threshold is not reached.	Significant	Adverse
Property Cluster 5: Torvaugh and Niaroo East Gloup	Major effect on residents. The RVAA threshold is not reached.	Significant	Adverse	Moderate effect on residents. The RVAA threshold is not reached.	Not Significant	Adverse
6. Ornithology						
Bluemull and Colgrave Sounds: displacement of red-throated diver	Negligible	Not significant	Adverse	Negligible	Not significant	Adverse
Fetlar: displacement of dunlin and great skua	Negligible	Not significant	Adverse	Negligible	Not significant	Adverse
East Mires SSSI: displacement of moorland breeding birds	Negligible	Not significant	Adverse	Negligible	Not significant	Adverse

Description of Effect	2019 Residual Effect			2020 Residual Effect		
	Significance	Significant	Beneficial/ Adverse	Significance	Significant	Beneficial/ Adverse
Hascosay SSSI: displacement of dunlin	Negligible	Not significant	Adverse	Negligible	Not significant	Adverse
North Fetlar SSSI: displacement of great skua	Negligible	Not significant	Adverse	Negligible	Not significant	Adverse
Lamb Hoga SSSI: displacement of dunlin and great skua	Negligible	Not significant	Adverse	Negligible	Not significant	Adverse
Greylag goose collision	Negligible	Not significant	Adverse	Negligible	Not significant	Adverse
Red-throated diver displacement.	Local	Significant	Adverse	Local	Significant	Adverse
Red-throated diver collision.	Negligible	Not significant	Adverse	Negligible	Not significant	Adverse
Curlew displacement.	Local	Significant	Adverse	Local	Significant	Adverse
Curlew collision.	Negligible	Not significant	Adverse	Negligible	Not significant	Adverse
Whimbrel displacement	Negligible	Not significant	Adverse	Negligible	Not significant	Adverse
Whimbrel collision	Negligible	Not significant	Adverse	Negligible	Not significant	Adverse
Dunlin displacement.	Site	Significant	Adverse	Site	Significant	Adverse
Golden plover displacement.	Site	Significant	Adverse	Site	Significant	Adverse

Description of Effect	2019 Residual Effect			2020 Residual Effect		
	Significance	Significant	Beneficial/ Adverse	Significance	Significant	Beneficial/ Adverse
Golden plover collision	Site	Significant	Adverse	Site	Significant	Adverse
Redshank displacement.	Site	Significant	Adverse	Negligible	Not significant	Adverse
Snipe displacement.	Local	Significant	Adverse	Local	Significant	Adverse
Great skua displacement.	Local	Significant	Adverse	Local	Significant	Adverse
Great skua collision	Negligible	Not significant	Adverse	Negligible	Not significant	Adverse
Arctic skua displacement	Local	Significant	Adverse	Local	Significant	Adverse
Arctic skua collision	Negligible	Not significant	Adverse	Negligible	Not significant	Adverse
Artic tern collision	Negligible	Not significant	Adverse	Negligible	Not significant	Adverse
Fulmar collision	Negligible	Not significant	Adverse	Negligible	Not significant	Adverse
7. Ecology and Nature Conservation						
Hydrological change – cable routes in blanket bog	Barely perceptible	Not significant	Adverse	Barely perceptible	Not significant	Adverse
Degradation and disturbance of habitat: blanket bog	Low level impact, at a National area	Significant	Adverse	Low level impact, at a National area	Significant	Adverse
Otter - disturbance	None	n/a	n/a	None	n/a	n/a

Description of Effect	2019 Residual Effect			2020 Residual Effect		
	Significance	Significant	Beneficial/ Adverse	Significance	Significant	Beneficial/ Adverse
Fish – maintenance mortality	None	n/a	n/a	None	n/a	n/a
8. Noise						
Noise from operational wind turbines (daytime period)	Minor	Not significant	Adverse	Minor	Not significant	Adverse
Noise from operational wind turbines (night time period)	Minor/Neutral	Not significant	Adverse	Minor/Neutral	Not significant	Adverse
Noise from non-turbine fixed plant	Neutral	Not significant	Adverse	Neutral	Not significant	Adverse
9. Cultural Heritage						
Effect on setting of Burgi Geos, promontory fort (Site 1)	Moderate	Significant	Adverse	Minor /Moderate	Not significant	Adverse
Effect on settings of Sites 2, 4, 7, 21, 28, 39, 40, 41, 61, 66, 67, 68, 75,8 and 81	Minor /Moderate	Not significant	Adverse	Minor /Moderate	Not significant	Adverse
Effect on settings of Sites 3, 5, 10, 12-15, 17, 18, 27, 29, 37, 39, 42, 45, 46, 48, 49, 52	Minor	Not significant	Adverse	Minor	Not significant	Adverse
Effect on settings of Sites 9, 19, 20, 31, 36, 43,47,54-58, 70	Negligible	Not significant	Adverse	Negligible	Not significant	Adverse

Description of Effect	2019 Residual Effect			2020 Residual Effect		
	Significance	Significant	Beneficial/ Adverse	Significance	Significant	Beneficial/ Adverse
and 74						
Effect of settings of Site 32	Negligible	Not significant	Adverse	None	N/A	N/A
10. Geology, Peat, Hydrology and Hydrogeology						
Erosion /Sedimentation						
Water quality	Minor	Not significant	Adverse	Minor	Not significant	Adverse
Pollution	Minor	Not significant	Adverse	Minor	Not significant	Adverse
<i>Natural Drainage Alteration</i>						
Alteration of natural drainage patterns	Minor	Not significant	Adverse	Minor	Not significant	Adverse
Flood Risk	Minor	Not significant	Adverse	Minor	Not significant	Adverse
<i>Geological Alteration</i>						
Disturbance of peat	Minor	Not significant	Adverse	Minor	Not significant	Adverse
Peat Slide	Minor	Not significant	Adverse	Minor	Not significant	Adverse

Description of Effect	2019 Residual Effect			2020 Residual Effect		
	Significance	Significant	Beneficial/ Adverse	Significance	Significant	Beneficial/ Adverse
11. Traffic and Transport						
No effects anticipated				Unchanged		
12. Socio-Economic, Tourism and Recreation						
Socio-Economics						
Effects on employment in Shetland (regional) during operation of the Proposed Development.	Minor	Not significant	Beneficial	Minor	Not significant	Beneficial
Effects on employment in Scotland (national) during operation of the Propose Development.	Minor	Not significant	Beneficial	Negligible	Not significant	Beneficial
Effects on operational expenditure in Shetland (regional) during the operational phase of the Proposed Development.	Minor	Not significant	Beneficial	Minor	Not significant	Beneficial
Effects on operational expenditure in Scotland (national) during the operational phase of the	Minor	Not significant	Beneficial	Negligible	Not significant	Beneficial

Description of Effect	2019 Residual Effect			2020 Residual Effect		
	Significance	Significant	Beneficial/ Adverse	Significance	Significant	Beneficial/ Adverse
Proposed Development.						
Tourism and Recreation						
Direct effects on CPYY04 and accessibility to the site during the operational phase of the Proposed Development.	Negligible	Not significant	Adverse	Negligible	Not significant	Adverse
Indirect effects on Core Paths identified within the site and Study Area during the operational phase of the Proposed Development.	Negligible	Not significant	Adverse	Negligible	Not significant	Adverse
Indirect effects on local tourist attractions during the operational phase of the Proposed Development.	Negligible	Not significant	Adverse	Negligible	Not significant	Adverse
Land-use						
The effects on the land-use within the site and immediate vicinity during the operational phase of the Development.	Negligible	Not significant	Adverse	Negligible	Not significant	Adverse
13. Aviation and Radar						
Effect on MOD TPS-77 Air Defence Radar at Saxa Vord	Minor	Not significant	Adverse	Minor	Not significant	Adverse

Description of Effect	2019 Residual Effect			2020 Residual Effect		
	Significance	Significant	Beneficial/ Adverse	Significance	Significant	Beneficial/ Adverse
14. Shadow Flicker						
Shadow Flicker effects on 7 nearby residential receptors	Negligible	Not significant	Adverse	No effect	N/A	N/A
15. Telecommunication						
Effects on telecommunication	No effect	N/A	N/A	No effect	N/A	N/A

18.4 Cumulative Effects

Table 18.3 Summary of Cumulative Effects

Receptor	Effect	Cumulative Developments	2019 Cumulative Effect		2020 Cumulative Effect	
			Significance	Beneficial/ Adverse	Significance	Beneficial/ Adverse
5. LVIA						
Cumulative landscape and visual effects have been included in the baseline for assessment of operational effects, outlined in Table 18.2 above, as the key other wind farms with which interaction will occur are built or are consented.					Unchanged	
6. Ornithology						
Red-throated diver	Disturbance, displacement and collision mortality	Garth, Beaw Field, Viking, Gremista and Mossy Hill	Local - Significant	Adverse	Local - Significant	Adverse
Arctic Skua	Disturbance, displacement and collision mortality		Local - Significant	Adverse	Local - Significant	Adverse
Curlew	Collision mortality		Local - Significant	Adverse	Local - Significant	Adverse
	Disturbance and displacement		Local - Significant	Adverse	Negligible – Not-significant	Adverse
Whimbrel	Collision mortality		N/A	N/A	Local - Significant	Adverse

Receptor	Effect	Cumulative Developments	2019 Cumulative Effect		2020 Cumulative Effect	
			Significance	Beneficial/ Adverse	Significance	Beneficial/ Adverse
Dunlin	Disturbance and displacement		Local - Significant	Adverse	Local - Significant	Adverse
Golden plover	Collision mortality		Local - Significant	Adverse	Local - Significant	Adverse
	Disturbance and displacement		Local - Significant	Adverse	Negligible – Not-significant	Adverse
Great skua	Disturbance, displacement and collision mortality		Local - Significant	Adverse	Negligible – Not-significant	Adverse
Merlin	Disturbance and displacement		Local - Significant	Adverse	Local - Significant	Adverse
7. Ecology						
Habitats	Habitat loss and degradation	Garth and Hill of Lussetter.	No effects	n/a	No effects	n/a
Otters and fish	Disturbance and mortality		No effects	N/A	No effects	N/A
8. Noise						
Cumulative noise effects have been included in the baseline for assessment of operational effects, outlined in					Unchanged	

Receptor	Effect	Cumulative Developments	2019 Cumulative Effect		2020 Cumulative Effect	
			Significance	Beneficial/ Adverse	Significance	Beneficial/ Adverse
Table 18.2 above, as per best practice guidance.						
9. Cultural Heritage						
Buried archaeological remains	Damage to buried remains and associated deposits	Garth Wind Farm, Beaw Field Wind Farm.	Negligible – Not-significant	Adverse	Negligible – Not-significant	Adverse
Cumulative Effect on Sites 4, 7, 8, 21, 28, 40	Changes to setting	Garth Wind Farm, Beaw Field Wind Farm.	Minor/moderate – Not-significant	Adverse	Minor/moderate – Not-significant	Adverse
Cumulative Effect on Sites 2, 39 and 41	Changes to setting	Garth Wind Farm, Beaw Field Wind Farm.	Minor – Not-significant	Adverse	Minor – Not-significant	Adverse
Cumulative Effect on Sites 80 and 81	Changes to setting	Garth Wind Farm, Beaw Field Wind Farm.	Negligible – Not-significant	Adverse	Negligible – Not-significant	Adverse
10. Geology						
No cumulative impacts are anticipated as a result of the other wind farm developments on Shetland					Unchanged	
11. Traffic & Transport						
No cumulative impacts are anticipated as a result of this Proposed Development as no other significant					Unchanged	

Receptor	Effect	Cumulative Developments	2019 Cumulative Effect		2020 Cumulative Effect	
			Significance	Beneficial/ Adverse	Significance	Beneficial/ Adverse
developments that would impact on the Study Area are anticipated to be under construction (the main period of traffic generation) within the same timescale						
12. Socio-Economic, Tourism & Recreation						
Northern Isles	Socio-economic effects e.g. increased employment	All wind farm developments	Minor – Not-significant	Beneficial	Minor – Not-significant	Beneficial
Outdoor recreational and tourism facilities	Visual impacts	Garth Wind Farm	Negligible – Not-significant	Adverse	Negligible – Not-significant	Adverse
Rough grazing upland areas	Land-use alteration	All wind farm developments	Negligible – Not-significant	Adverse	Negligible – Not-significant	Adverse
Shetland	Socio-economic – supporting future developments	HVDC Interconnector	N/A	N/A	Moderate	Beneficial
Scotland	Socio-economic	HVDC Interconnector	N/A	N/A	Minor	Beneficial
Shetland	Socio-economic – supporting future developments	Maali Interconnector	N/A	N/A	Moderate	Beneficial

Receptor	Effect	Cumulative Developments	2019 Cumulative Effect		2020 Cumulative Effect	
			Significance	Beneficial/ Adverse	Significance	Beneficial/ Adverse
Scotland	Socio-economic	Maali Interconnector	N/A	N/A	Moderate	Beneficial
13. Aviation & Radar						
MOD TPS-77 Air Defence Radar at Saza Vord	Impact on the performance of the radar	Beaw Wind Farm	Minor – Not-significant	Adverse	Minor – Not-significant	Adverse
14. Shadow Flicker						
Receptors 1-7	Shadow flicker	Tulac, Uphouse, SW Cullivoe Hall, Niaroo, Dalsetter, Innhouse and Garth	No effect	N/A	No effect	N/A
15. Telecommunications						
Telecommunication infrastructure	No effect	Other wind farm developments	No effect	N/A	No effect	N/A