

# **BERWICK BANK WIND FARM ONSHORE ENVIRONMENTAL IMPACT ASSESSMENT REPORT**

Chapter 15: Summary

### Document Status

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# 15. SUMMARY OF RESIDUAL EFFECTS

## 15.1. INTRODUCTION

1. Table 15.1 and Table 15.2 present a summary of the residual environmental effects identified in the technical sections of the Environmental Impacts Assessment (EIA) Report.
2. Table 15.3 and Table 15.4 provide a summary of cumulative effects of the Proposed Development in combination with other proposed and consented developments in the local area.
3. This chapter is supported by Volume 4, Appendix 15.1 which presents a Schedule of Environmental Commitments for the Proposed Development, and by Volume 4, Appendix 15.2 which presents an assessment of Inter-related Effects for the Proposed Development.

**Table 15.1 Summary of Potential Likely Significant Environmental Effects**

Receptor	Sensitivity of Receptor	Magnitude of Change (Construction)	Significance of Effect (Construction)	Magnitude of Change (Year 1)	Significance of Effect (Year 1)	Magnitude of Change (year 15 once mitigation planting established)	Significance of Effect (Year 15 Residual Effect)
<b>Landscape &amp; Visual</b>							
<b>Physical Landscape Effects</b>							
Agricultural Land	Medium-Low	Medium-Low	Minor (Not Significant)	N/A	N/A	N/A	N/A
Hedgerows and Trees	Medium-High	Low	Moderate-Minor (Not Significant)	N/A	N/A	N/A	N/A
Coastal Landscape	Medium-High	Low	Moderate-Minor (Not Significant)	N/A	N/A	N/A	N/A
<b>Landscape Character Effects</b>							
LCT 277: Coastal Margins – Lothians (within 1km)	Medium	Medium-High	<b>Moderate (Significant)</b>	Medium-High	<b>Moderate (Significant)</b>	Medium	Moderate (Not Significant)
LCT 277: Coastal Margins – Lothians (wider area)		Medium-Low	Moderate-Minor (Not Significant)	Medium-Low	Moderate-Minor (Not Significant)	Low	Minor (Not Significant)
LCT 269: Upland Fringes – Lothians (within 1km)	Medium	Medium-High	<b>Moderate (Significant)</b>	Medium-High	<b>Moderate (Significant)</b>	Medium	Moderate (Not Significant)
LCT 269: Upland Fringes – Lothians (wider area)		Medium-Low	Moderate-Minor (Not Significant)	Medium-Low	Moderate-Minor (Not Significant)	Medium-Low	Moderate-Minor (Not Significant)
<b>Visual Effects – Onshore Substation</b>							
Viewpoint 1: A1, Skateraw Junction	Medium	High	<b>Moderate-Major (Significant)</b>	High	<b>Moderate-Major (Significant)</b>	Medium	<b>Moderate (Significant)</b>
Viewpoint 2: Innerwick	High	Medium-High	<b>Major (Significant)</b>	Medium-High	<b>Major (Significant)</b>	Medium	<b>Moderate-Major (Significant)</b>
Viewpoint 3: John Muir Link near Skateraw	Medium-High	Medium-High	<b>Moderate-Major (Significant)</b>	Medium-High	<b>Moderate-Major (Significant)</b>	Medium-Low	Moderate (Not Significant)
Viewpoint 4: Minor road near Thornton	Medium	Medium	Moderate (Not Significant)	Medium	Moderate (Not Significant)	Medium-Low	Moderate-Minor (Not Significant)
Viewpoint 5: Minor road near Thurston	Medium	Medium	Moderate (Not Significant)	Medium	Moderate (Not Significant)	Medium-Low	Moderate-Minor (Not Significant)

Receptor	Sensitivity of Receptor	Magnitude of Change (Construction)	Significance of Effect (Construction)	Magnitude of Change (Year 1)	Significance of Effect (Year 1)	Magnitude of Change (year 15 once mitigation planting established)	Significance of Effect (Year 15 Residual Effect)
Viewpoint 6: Blackcastle Hill	Medium-High	Medium	<b>Moderate (Significant)</b>	Medium	<b>Moderate (Significant)</b>	Medium	<b>Moderate (Significant)</b>
Core Path 18, north of Innerwick	Medium-High	Medium-High	<b>Moderate-Major (Significant)</b>	Medium-High	<b>Moderate-Major (Significant)</b>	Medium-Low	Moderate (Not Significant)
Individual property at Railway Cottage, Skateraw Gate	Medium-High	High	<b>Major (Significant)</b>	High	<b>Major (Significant)</b>	High	<b>Major (Significant)</b>
<b>Visual Effects - Cable Corridor and Landfall</b>							
Viewpoint 1: A1, Skateraw Junction	Medium	Low	Minor (Not Significant)	N/A	N/A	N/A	N/A
Viewpoint 2: Innerwick	High	Low	Moderate-Minor (Not Significant)	N/A	N/A	N/A	N/A
Viewpoint 3: John Muir Link (John Muir Link 500m either side of cable route)	Medium-High	Medium	<b>Moderate (Significant)</b>	N/A	N/A	N/A	N/A
Viewpoint 3: John Muir Link (John Muir Link other sections between Barns Ness and Torness)		Low	Moderate-Minor (Not Significant)	N/A	N/A	N/A	N/A
Viewpoint 4: Minor road near Thornton	Medium	No Change	No Effect	N/A	N/A	N/A	N/A
Viewpoint 5: Minor road near Thurston	Medium	Low	Minor (Not Significant)	N/A	N/A	N/A	N/A
Viewpoint 6: Blackcastle Hill	Medium-High	Low	Moderate-Minor (Not Significant)	N/A	N/A	N/A	N/A
Individual property at Links Cottage, Skateraw Harbour	Medium-High	Low	Moderate-Minor (Not Significant)	N/A	N/A	N/A	N/A
Individual property at Castledene	High	High	<b>Major (Significant)</b>	N/A	N/A	N/A	N/A

**Table 15.2: Summary of Likely Significant Effects, Mitigation and Monitoring**

Description of Impact	Phase			Magnitude of Impact	Sensitivity of Receptor	Significance of Effect	Secondary Mitigation	Residual Effect	Proposed Monitoring
	C	O	D						
<b>Ecology</b>									
Habitat loss / disturbance	✓			Low	Low (Dunglass Burn LNCS)	Negligible to Minor	None	Negligible to Minor	None
	✓			Low	Low (Thornton Glen SWT)	Negligible to Minor	None	Negligible to Minor	None
	✓			Low	Low (Dry Burn Valley LNCS)	Negligible to Minor	None	Negligible to Minor	None
	✓			Low	Low (Dense and Scattered Scrub)	Negligible to Minor	None	Negligible to Minor	None
	✓			Low	Low (Species-poor hedgerow)	Negligible to Minor	None	Negligible to Minor	None
	✓			Negligible	Low (Running water habitat)	Negligible to Minor	None	Negligible to Minor	None
<b>Ornithology</b>									
Firth of Forth SPA and Ramsar	✓			Barely Perceptible	n/a	Negligible	None	Negligible	None
Outer Firth of Forth and St Andrews Bay Complex SPA	✓			Barely Perceptible	n/a	Negligible	None	Negligible	None
St Abb's Castle to Fast Head SPA	✓			Barely Perceptible	n/a	Negligible	None	Negligible	None
Forth Islands SPA	✓			Barely Perceptible	n/a	Negligible	None	Negligible	None
Wintering Pink-footed goose (Firth of Forth SPA qualifying)	✓			Barely Perceptible	Low	Negligible	None	Negligible	None
Wintering Golden plover (Firth of Forth SPA qualifying)	✓			Barely Perceptible	High	Negligible	None	Negligible	None
Wintering (the wider-countryside population) Curlew	✓			Barely Perceptible	Low	Negligible	None	Negligible	None



Description of Impact	Phase			Magnitude of Impact	Sensitivity of Receptor	Significance of Effect	Secondary Mitigation	Residual Effect	Proposed Monitoring
	C	O	D						
Wintering (the wider-countryside population) Lapwing	✓			Barely Perceptible	Low	Negligible	None	Negligible	None
Wintering Black-headed gull (Outer Forth SPA qualifying)	✓			Barely Perceptible	Low	Negligible	None	Negligible	None
Wintering Common gull (Outer Forth SPA qualifying)	✓			Barely Perceptible	Low	Negligible	None	Negligible	None
Breeding and Wintering Herring gull (Outer Forth / Forth islands / St Abb's Castle to Fast Head SPA qualifying)	✓			Barely Perceptible	Low	Negligible	None	Negligible	None
Wintering Eider (Outer Forth SPA qualifying)	✓			Barely Perceptible	Low	Negligible	None	Negligible	None
Wintering Goldeneye (Outer Forth SPA qualifying)	✓			Barely Perceptible	Low	Negligible	None	Negligible	None
Wintering Red-breasted merganser (Outer Forth SPA qualifying)	✓			Barely Perceptible	Low	Negligible	None	Negligible	None
Peregrine	✓			Barely Perceptible	High	Negligible	None	Negligible	None
Breeding bird assemblage	✓			Barely Perceptible	Medium	Negligible	None	Negligible	None
Breeding bird assemblage		✓		Barely Perceptible	Medium	Negligible	None	Negligible	None
All other species		✓		No impact	Various as above	Negligible	None	Negligible	None
<b>Noise</b>									
Increases in road traffic noise	✓		✓	Negligible	High	Negligible	None	Negligible	None
Vibration at sensitive receptors	✓		✓	Negligible	High	Negligible	None	Negligible	None

Description of Impact	Phase			Magnitude of Impact	Sensitivity of Receptor	Significance of Effect	Secondary Mitigation	Residual Effect	Proposed Monitoring
	C	O	D						
Noise at sensitive receptors	✓	✓	✓	High	High	Major	<p>Construction - General measures to be included within the CEMP and specific measures such as site boundary temporary barriers.</p> <p>Operation – measures to be developed during the detailed design post consent phase and may include enclosures to specific equipment items.</p>	Minor	Further detailed NIA prior to commissioning of the substation
<b>Cultural Heritage</b>									
Direct impact on Thornton Law (MEL2499)	✓			High	Medium	Moderate	Programme of archaeological works to be developed in consultation with ELCAS, likely to comprise a targeted evaluation prior to construction commencing with further excavation and reporting undertaken as appropriate	Minor (which is not significant in EIA terms)	N/A
Direct impact on Thornton Law	✓			Medium	Low	Minor	N/A	Negligible (which is not)	N/A

Description of Impact	Phase			Magnitude of Impact	Sensitivity of Receptor	Significance of Effect	Secondary Mitigation	Residual Effect	Proposed Monitoring
	C	O	D						
Trackway (MEL10316)								significant in EIA terms)	
Direct impact on Area of Rig and Furrow (CFA 001)	✓			High	Low	Minor	N/A	Minor (which is not significant in EIA terms)	N/A
Direct impacts on Areas of Archaeological Potential	✓			Up to High	Up to High	Up to Major	Programme of archaeological works to be developed in consultation with ELCAS, likely to comprise, in the first instance prior to construction commencing, targeted trial trenching. Depending on the results of the trial trenching further investigation and reporting will be undertaken as appropriate.	Minor (which is not significant in EIA terms)	N/A
Setting impact on the scheduled monument; Crowhill, enclosure WNW of (SM5770)		✓		High	Medium	Moderate	N/A	<b>Moderate</b> (which is significant in EIA terms)	N/A
Setting impact on scheduled monuments (SM773, SM3916, SM3990, SM4039 , SM4040,		✓		High	Low	Minor	N/A	Minor (which is not significant in EIA terms)	N/A

Description of Impact	Phase			Magnitude of Impact	Sensitivity of Receptor	Significance of Effect	Secondary Mitigation	Residual Effect	Proposed Monitoring
	C	O	D						
SM5771, SM5849, SM5870, SM5895, SM5896 and SM90098)									
Setting impact on scheduled monuments (SM3191, SM3933, SM5675, SM5764, SM5831, SM5838, SM5844, SM5845, SM5847, SM5890, SM5958, SM5843, SM5850, SM5876 and SM13313)	✓			High	Negligible	Minor	N/A	Minor (which is not significant in EIA terms)	N/A
Setting impact on Thurston Home Farm (LB7711)	✓			High	Negligible	Minor	N/A	Minor (which is not significant in EIA terms)	N/A
Setting impact on Barns Ness Lighthouse with Keepers' Cottages and retaining walls (LB1465)	✓			Medium	Negligible	Negligible	N/A	Negligible (which is not significant in EIA terms)	N/A
Setting impact on Innerwick House with gatepiers and parapet (LB7704)	✓			Low	Medium	Minor	N/A	Minor (which is not significant in EIA terms)	N/A
Setting impact on Listed Buildings (LB7718 and LB7719)	✓			Low	Negligible	Negligible	N/A	Negligible (which is not significant in EIA terms)	N/A

Description of Impact	Phase			Magnitude of Impact	Sensitivity of Receptor	Significance of Effect	Secondary Mitigation	Residual Effect	Proposed Monitoring
	C	O	D						
Setting impact on Innerwick Conservation Area (CA285)	✓			Medium	Medium	<b>Moderate</b>	N/A	<b>Moderate</b> (which is significant in EIA terms)	N/A
<b>Geology, Hydrology, Soils &amp; Flood Risk</b>									
Hydrology	✓			Negligible	High	Minor	None	Minor	WQMP
		✓		Negligible	Negligible	Negligible	None	Negligible	WQMP
			✓	Negligible	High	Minor	None	Minor	None
Hydrogeology	✓			Low	Medium	Minor	None	Minor	WQMP
Flood Risk	✓			Negligible	Low	Negligible	None	Negligible	None
		✓		Low	Low	Minor	None	Minor	None
Statutory Geologically Designated Sites	✓			Negligible	High	Minor	None	Minor	None
			✓	Negligible	High	Minor	None	Minor	None
Soils	✓			Low	Medium	Minor	None	Minor	None
		✓		Low	Medium	Minor	None	Minor	None
			✓	Low	Medium	Minor	None	Minor	None
<b>Transport</b>									
<b>Skateraw Users</b>									
Severance	✓			Moderate/Sligh	High	Not Significant	Abnormal Load Transport Management Plan and Roads Agreement	Slight	In line with CTMRP
Driver delay	✓			Slight	High	Not Significant	Abnormal Load Transport Management Plan and Roads Agreement	Slight	In line with CTMRP
Pedestrian delay	✓			Slight	High	Not Significant	Abnormal Load Transport Management Plan	Slight	In line with CTMRP

Description of Impact	Phase			Magnitude of Impact	Sensitivity of Receptor	Significance of Effect	Secondary Mitigation	Residual Effect	Proposed Monitoring
	C	O	D						
Pedestrian amenity	✓			Slight	High	Not Significant	and Roads Agreement Abnormal Load Transport Management Plan and Roads Agreement	Slight	In line with CTMRP
Fear and intimidation	✓			Slight	High	Not Significant	Abnormal Load Transport Management Plan and Roads Agreement	Slight	In line with CTMRP
Accidents and Safety	✓			Slight	High	Not Significant	Abnormal Load Transport Management Plan and Roads Agreement	Slight	In line with CTMRP
<b>Users of U209 (north of Barns Ness Terrace)</b>									
Severance	✓			Moderate/Slight	High	Not Significant	Abnormal Load Transport Management Plan and Roads Agreement	Slight	In line with CTMRP
Driver delay	✓			Slight	High	Not Significant	Abnormal Load Transport Management Plan and Roads Agreement	Slight	In line with CTMRP
Pedestrian delay	✓			Slight	High	Not Significant	Abnormal Load Transport Management Plan and Roads Agreement	Slight	In line with CTMRP
Pedestrian amenity	✓			Slight	High	Not Significant	Abnormal Load Transport Management Plan	Slight	In line with CTMRP

Description of Impact	Phase			Magnitude of Impact	Sensitivity of Receptor	Significance of Effect	Secondary Mitigation	Residual Effect	Proposed Monitoring
	C	O	D						
Fear and intimidation	✓			Slight	High	Not Significant	and Roads Agreement Abnormal Load Transport Management Plan and Roads Agreement	Slight	In line with CTMRP
Accidents and Safety	✓			Slight	High	Not Significant	Abnormal Load Transport Management Plan and Roads Agreement	Slight	In line with CTMRP
<b>Core Path Users</b>									
Severance	✓			Moderate/Slight	High	Not Significant	Core Path Management Plan	Slight	In line with CTMRP and Path Management Plan
Driver delay	✓			Slight	High	Not Significant	Core Path Management Plan	Slight	In line with CTMRP and Path Management Plan
Pedestrian delay	✓			Moderate/Slight	High	Not Significant	Core Path Management Plan	Slight	In line with CTMRP and Path Management Plan
Pedestrian amenity	✓			Moderate/Slight	High	Not Significant	Core Path Management Plan	Slight	In line with CTMRP and Path Management Plan
Fear and intimidation	✓			Moderate/Slight	High	Not Significant	Core Path Management Plan	Slight	In line with CTMRP and Path Management Plan
Accidents and Safety	✓			Slight	High	Not Significant	Core Path Management Plan	Slight	In line with CTMRP and Path Management Plan
<b>Socio-economics</b>									
Baseline Procurement Scenario – Local Study Area									
Impact on employment activities	✓			Medium (Beneficial)	High	Moderate to major (Beneficial)	N/A	Moderate to major (Beneficial)	N/A

Description of Impact	Phase			Magnitude of Impact	Sensitivity of Receptor	Significance of Effect	Secondary Mitigation	Residual Effect	Proposed Monitoring
	C	O	D						
(including supply chain)		✓		Negligible	High	Negligible	N/A	Negligible	N/A
			✓	Negligible	High	Negligible	N/A	Negligible	N/A
Impact on GVA (£) (including supply chain)	✓			Low (Beneficial)	High	Minor to moderate (Beneficial)	N/A	Minor to moderate (Beneficial)	N/A
		✓		Negligible	High	Negligible	N/A	Negligible	N/A
			✓	Negligible	High	Negligible	N/A	Negligible	N/A
<b>Enhanced Procurement Scenario – Local Study Area</b>									
<i>No change</i>									
<b>Baseline Procurement Scenario – Scotland</b>									
Impact on employment activities (including supply chain)	✓			Low (Beneficial)	High	Minor to moderate (Beneficial)	N/A	Minor to moderate (Beneficial)	N/A
		✓		Negligible	High	Negligible	N/A	Negligible	N/A
			✓	Negligible	High	Negligible	N/A	Negligible	N/A
Impact on GVA (£) (including supply chain)	✓			Low (Beneficial)	High	Minor to moderate (Beneficial)	N/A	Minor to moderate (Beneficial)	N/A
		✓		Negligible	High	Negligible	N/A	Negligible	N/A
			✓	Negligible	High	Negligible	N/A	Negligible	N/A
<b>Enhanced Procurement Scenario - Scotland</b>									
Impact on employment activities (including supply chain)	✓			Medium (Beneficial)	High	Moderate to major (Beneficial)	N/A	Moderate (Beneficial)	N/A
Impact on GVA (£) (including supply chain)	✓			Low (Beneficial)	High	Minor to moderate (Beneficial)	N/A	Minor to moderate (Beneficial)	N/A
<b>Land Use, Recreation and Tourism</b>									
<b>Land Use</b>									
Temporary changes in land use as a result of Temporary Infrastructure	✓			Low	Medium	Minor	N/A	Minor	N/A
Permanent changes in land use as a result of	✓			Low	Medium	Minor	N/A	Minor	N/A



Description of Impact	Phase			Magnitude of Impact	Sensitivity of Receptor	Significance of Effect	Secondary Mitigation	Residual Effect	Proposed Monitoring
	C	O	D						
<b>Permanent Infrastructure</b>									
<b>Visitor Attractions</b>									
Impact on visitor numbers to Torness Power Station	✓			Negligible	Negligible	Negligible	None	Negligible	None
Impact on visitor numbers to Dunbar Golf Course		✓		Negligible	Low	Negligible to Minor	None	Negligible to Minor	None
Impacts on visitor numbers to Barns Ness Lighthouse	✓			Medium	Low	Minor	None	Minor	None
Impacts on visitor numbers to Doon Hill		✓		Low	Low	Negligible to Minor	None	Negligible to Minor	None
<b>Beaches</b>									
Impacts on visitor numbers to Skateraw Harbour	✓			Medium	Low	Minor	None	Minor	None
Impacts on visitor numbers to Thorntonloch Beach		✓		Negligible	Low	Negligible to Minor	None	Negligible	None
<b>Tourist Accommodation</b>									
Impacts on visitor numbers to Thurston Manor Leisure Park	✓			Low	Low	Negligible to Minor	None	Negligible to Minor	None
Impacts on visitor numbers to Thorntonloch Caravan Park		✓		Low	Negligible	Negligible to Minor	None	Negligible to Minor	None
Impacts on visitor numbers to Culzean Cottage		✓		Negligible	Negligible	Negligible to Minor	None	Negligible to Minor	None

Description of Impact	Phase			Magnitude of Impact	Sensitivity of Receptor	Significance of Effect	Secondary Mitigation	Residual Effect	Proposed Monitoring
	C	O	D						
Impacts on visitor numbers to Dunbar Thorntonloch House Bed & Breakfast	✓			Negligible	Negligible	Negligible	None	Negligible	None
		✓		Low	Negligible	Negligible to Minor	None	Negligible to Minor	None
Impacts on visitor numbers to the Blue Cabin by the Sea	✓			Negligible	Negligible	Negligible	None	Negligible	None
		✓		Low	Negligible	Negligible to Minor	None	Negligible to Minor	None
Impacts on visitor numbers to the Old Coastguard Lookout Cottage	✓			Negligible	Negligible	Negligible	None	Negligible	None
		✓		Low	Negligible	Negligible to Minor	None	Negligible to Minor	None
Impacts on visitor numbers to Dunmuir Hotel	✓			Negligible	Negligible	Negligible	None	Negligible	None
		✓		Negligible	Negligible	Negligible	None	Negligible	None
Impacts on visitor numbers to West Meikle Pinkerton Caravan Site	✓			Negligible	Negligible	Negligible	None	Negligible	None
		✓		Negligible	Negligible	Negligible	None	Negligible	None
<b>Paths &amp; Cycle</b>									
Impacts on recreational users of the John Muir Link	✓			Low	Medium	Minor	None	Minor	None
		✓		Negligible	Medium	Negligible to Minor	None	Negligible to Minor	None
Impacts on recreational users of the SUW	✓			Low	Medium	Minor	None	Minor	None
		✓		Negligible	Medium	Negligible to Minor	None	Negligible to Minor	None
Impacts on recreational users of the Berwickshire Coastal Path	✓			Low	Low	Negligible to Minor	None	Negligible to Minor	None
		✓		Negligible	Low	Negligible to Minor	None	Negligible to Minor	None
Impacts on recreational users of Core Paths 309 and 310	✓			Low	Low	Negligible to Minor	None	Negligible to Minor	None
		✓		Negligible	Low	Negligible to Minor	None	Negligible to Minor	None
Impacts on recreational users of other Core Paths	✓			Negligible	Low	Negligible to Minor	None	Negligible to Minor	None
		✓		Negligible	Low	Negligible to Minor	None	Negligible to Minor	None

Description of Impact	Phase			Magnitude of Impact	Sensitivity of Receptor	Significance of Effect	Secondary Mitigation	Residual Effect	Proposed Monitoring
	C	O	D						
Impacts on recreational users of the Local Path Network at Skateraw	✓			Medium	Negligible	Negligible to minor	None	Negligible to minor	None
		✓		Negligible	Negligible	Negligible	None	Negligible	None
Impacts on recreational users of the Local Road Network	✓			Low	Negligible	Negligible to Minor	None	Negligible to Minor	None
		✓		Negligible	Negligible	Negligible	None	Negligible	None
Impacts on recreational users of cycle paths	✓			Low	Medium	Minor	None	Minor	None
		✓		Negligible	Low	Negligible to Minor	None	Negligible to Minor	None

**Table 15.3: Summary of Potential Likely Significant Cumulative Environmental Effects**

Receptor	Sensitivity of Receptor	Magnitude of Change (Construction)	Significance of Effect (Construction)	Magnitude of Change (Year 1)	Significance of Effect (Year 1)	Magnitude of Change (year 15 once mitigation planting established)	Significance of Effect (Year 15 Residual Effect)
<b>Landscape and Visual Impact (Tier 2)</b>							
<b>Landscape Character Effects</b>							
LCT 277: Coastal Margins – Lothians	Medium	Low	Minor (Not Significant)	Low	Minor (Not Significant)	Low	Minor (Not Significant)
LCT 269: Upland Fringes – Lothians	Medium	Low	Minor (Not Significant)	Low	Minor (Not Significant)	Low	Minor (Not Significant)
<b>Visual Effects</b>							
Viewpoint 3: John Muir Link near Skateraw	Medium-High	Low	Moderate-Minor (Not Significant)	Low	Moderate-Minor (Not Significant)	Low	Moderate-Minor (Not Significant)
Viewpoint 6: Blackcastle Hill	Medium-High	Low	Moderate-Minor (Not Significant)	Low	Moderate-Minor (Not Significant)	Low	Moderate-Minor (Not Significant)

**Table 15.4: Summary of Likely Cumulative Environmental Effects, Mitigation and Monitoring**

Description of Impact	Phase			Cumulative Impact Assessment Tier	Magnitude of Impact	Sensitivity of Receptor	Significance of Effect	Secondary Mitigation	Residual Effect	Proposed Monitoring
	C	O	D							
<b>Ecology</b>										
Loss/Disturbance Habitats	✓			Tier 1 & Tier 2	Medium	Low (Dunglass Burn LNCS)	Minor	None	Minor	None
	✓				Low	Low (Thornton Glen SWT)	Negligible to Minor	None	Negligible to Minor	None
	✓				Medium	Low (Dry Burn Valley LNCS)	Minor	None	Minor	None
	✓				Medium	Low (Dense and Scattered Scrub)	Minor	None	Minor	None

Description of Impact	Phase			Cumulative Impact Assessment Tier	Magnitude of Impact	Sensitivity of Receptor	Significance of Effect	Secondary Mitigation	Residual Effect	Proposed Monitoring
	C	O	D							
	✓				Medium	Low (Species-poor hedgerow)	Minor	None	Minor	None
	✓				Negligible	Low (Running water habitat)	Negligible to Minor	None	Negligible to Minor	None
<b>Ornithology</b>										
Impacts on all species	✓	✓		Tier 2	Barely Perceptible	Various	Negligible	None	Negligible	None
<b>Noise</b>										
Increases in noise at sensitive receptors	✓			Tier 2	High	High	Major	Construction programme planning and localised mitigation measures	Minor	Further detailed NIA prior to commencement of construction
<b>Cultural Heritage</b>										
Direct impacts on Areas of Archaeological Potential	✓			Tier 2	Up to High	Up to High	Up to Major	Programme of archaeological works to be developed in consultation with ELCAS, likely to comprise, in the first instance prior to construction commencing, targeted trial trenching. Depending on the results of the trial trenching further	Minor (which is not significant in EIA terms)	N/A

Description of Impact	Phase			Cumulative Impact Assessment Tier	Magnitude of Impact	Sensitivity of Receptor	Significance of Effect	Secondary Mitigation	Residual Effect	Proposed Monitoring
	C	O	D							
investigation and reporting will be undertaken as appropriate.										
<b>Geology, Hydrology, Soils &amp; Flood Risk</b>										
Hydrology	✓			Tier 2	Negligible	High	Minor	None	Minor	None
Flood Risk	✓			Tier 2	Negligible	Low	Negligible	None	Negligible	None
Statutory Geologically Designated Sites	✓	✓	✓	Tier 2	Negligible	High	Minor	None	Minor	None
Soils	✓	✓	✓	Tier 2	Low	Medium	Minor	None	Minor	None
<b>Transport</b>										
Crystal Rig IV, Branxton Substation and Eastern Link Project proposals										
Severance	✓			Tier 2	Large	High	Significant	Overarching Traffic Management and Monitoring Plan	Slight	In line with the overarching Traffic Management and Monitoring Plan
Driver delay	✓				Slight	High	Significant	Overarching Traffic Management and Monitoring Plan	Slight	In line with the overarching Traffic Management and Monitoring Plan
Pedestrian delay	✓				Moderate/Slight	High	Significant	Overarching Traffic Management and Monitoring Plan	Slight	In line with the overarching Traffic Management and Monitoring Plan

Description of Impact	Phase			Cumulative Impact Assessment Tier	Magnitude of Impact	Sensitivity of Receptor	Significance of Effect	Secondary Mitigation	Residual Effect	Proposed Monitoring
	C	O	D							
Pedestrian amenity	✓				Moderate/Slight	High	Significant	Overarching Traffic Management and Monitoring Plan	Slight	In line with the overarching Traffic Management and Monitoring Plan
Fear and intimidation	✓				Large/Moderate	High	Significant	Overarching Traffic Management and Monitoring Plan	Slight	In line with the overarching Traffic Management and Monitoring Plan
Accidents and Safety	✓				Large/Moderate	High	Significant	Overarching Traffic Management and Monitoring Plan	Slight	In line with the overarching Traffic Management and Monitoring Plan
<b>Socio-economics</b>										
<b>Baseline Procurement Scenario – Local Study Area</b>										
Impact on employment activities (including supply chain)	✓			Tier 1 & Tier 2	Medium (Beneficial)	High	Moderate to major (Beneficial)	N/A	Moderate to Major (Beneficial)	N/A
		✓			Medium (Beneficial)	High	Moderate to major (Beneficial)	N/A	Moderate to Major (Beneficial)	N/A
			✓		Negligible	High	Negligible	N/A	Negligible	N/A
Impact on GVA (£) (including supply chain)	✓			Tier 1 & Tier 2	Low (Beneficial)	High	Minor to moderate (Beneficial)	N/A	Minor to moderate (Beneficial)	N/A
		✓			Medium (Beneficial)	High	Moderate to major (Beneficial)	N/A	Moderate to major (Beneficial)	N/A
			✓		Negligible	High	Negligible	N/A	Negligible	N/A
<b>Enhanced Procurement Scenario – Local Study Area</b>										
<i>No change</i>										

Description of Impact	Phase			Cumulative Impact Assessment Tier	Magnitude of Impact	Sensitivity of Receptor	Significance of Effect	Secondary Mitigation	Residual Effect	Proposed Monitoring
	C	O	D							
<b>Baseline Procurement Scenario –Scotland</b>										
Impact on employment activities (including supply chain)	✓			Tier 1 & Tier 2	Medium (Beneficial)	High	Moderate to major (Beneficial)	N/A	Moderate to major (Beneficial)	N/A
		✓			Medium (Beneficial)	High	Moderate to major (Beneficial)	N/A	Moderate to major (Beneficial)	N/A
			✓		≤ Low (Beneficial)	High	≤ Moderate (Beneficial)	N/A	≤ Moderate (Beneficial)	N/A
Impact on GVA (£) (including supply chain)	✓			Tier 1 & Tier 2	Medium (Beneficial)	High	Moderate to major (Beneficial)	N/A	Moderate to major (Beneficial)	N/A
		✓			Low (Beneficial)	High	Minor to moderate (Beneficial)	N/A	Minor to moderate (Beneficial)	N/A
			✓		≤ Low (Beneficial)	High	≤ Moderate (Beneficial)	N/A	≤ Moderate (Beneficial)	N/A
<b>Enhanced Procurement Scenario –Scotland</b>										
Impact on employment activities (including supply chain)	✓			Tier 1 & Tier 2	High (Beneficial)	High	Major (Beneficial)	N/A	Major (Beneficial)	N/A
Impact on GVA (£) (including supply chain)	✓			Tier 1	High (Beneficial)	High	Major (Beneficial)	N/A	Major (Beneficial)	N/A
<b>Land Use, Tourism and Recreation</b>										
<b>Land Use</b>										
Temporary changes in land use	✓			Tier 2	Low	Medium	Minor	N/A	Minor	N/A
Permanent changes in land use	✓			Tier 2	Low	Low	Negligible to Minor	N/A	Negligible to Minor	N/A
<b>Visitor Attractions</b>										
Visitor numbers to Torness Power Station	✓	✓		Tier 2	Negligible	Negligible	Negligible	N/A	Negligible	N/A



Description of Impact	Phase			Cumulative Impact Assessment Tier	Magnitude of Impact	Sensitivity of Receptor	Significance of Effect	Secondary Mitigation	Residual Effect	Proposed Monitoring
	C	O	D							
Visitor numbers to Dunbar Golf Course, Barns Ness Lighthouse, and Doon Hill	✓	✓		Tier 2	Up to Medium	Low	Up to Minor	N/A	Up to Minor	N/A
<b>Beaches</b>										
Impacts on visitor numbers to Skateraw Harbour	✓			Tier 2	Medium	Low	Minor	N/A	Minor	N/A
Impacts on visitor numbers to Thorntonloch Beach	✓			Tier 2	Low	Medium	Minor	N/A	Minor	N/A
<b>Tourist Accommodation</b>										
Visitor numbers to Thorntonloch Caravan Park, Dunbar Thorntonloch House Bed and Breakfast, Culzean Cottage	✓			Tier 2	Low	Up to Low	Negligible to Minor	N/A	Negligible to Minor	N/A
Visitor numbers to Dunbar Thorntonloch House Bed & Breakfast, the Blue Cabin by the Sea, the Old Coastguard Lookout Cottage, Thurston Manor Leisure Park, Dunbar Camping and Caravanning Club Site, and West Meikle Pinkerton Caravan Club Site		✓		Tier 2	Up to Low	Negligible	Negligible to Minor	N/A	Negligible to Minor	N/A
<b>Paths &amp; Cycle Paths</b>										
Recreational users of John Muir Link	✓	✓		Tier 2	Low	Medium	Minor	N/A	Minor	N/A

Description of Impact	Phase			Cumulative Impact Assessment Tier	Magnitude of Impact	Sensitivity of Receptor	Significance of Effect	Secondary Mitigation	Residual Effect	Proposed Monitoring
	C	O	D							
Recreational users of Core Paths 309, 310, 18 and 42	✓	✓		Tier 2	Low	Low	Negligible to Minor	N/A	Negligible to Minor	N/A
Recreational users of cycle paths	✓			Tier 2	Low	Medium	Minor	N/A	Minor	N/A
		✓		Tier 1	Negligible	Low	Negligible to Minor	N/A	Negligible to Minor	N/A

