

Appendix G

Summary of residual effects tables

1. Introduction

1.1.1.1 This Appendix should be read in conjunction with the **Preliminary Environmental Information Report Supplementary Information Report (PEIR SIR)**. This Appendix presents the summary of residual effects tables from the original **Preliminary Environmental Information Report (PEIR)** (Rampion Extension Development (RED), 2021) and are taken directly from onshore aspect **Chapters 18 to 27** of the **PEIR**. **Tables G-1 to G-21** are therefore provided in relation to the following environmental aspects:

- Socio-economics (**Table G-1**);
- Landscape and visual impact (**Tables G-2 to G-7**);
- Air quality (**Table G-8**);
- Soils and agriculture (**Table G-9**);
- Noise and vibration (onshore) (**Table G-10**);
- Terrestrial ecology and nature conservation (**Table G-11**);
- Transport (**Table G-12**);
- Ground conditions (**Table G-13**);
- Historic environment (**Table G-14**); and
- Water environment (**Tables G-15 to G-21**).

Table G-1 Summary of preliminary assessment of residual effects on socio-economic receptors

Activity and impact	Study Area	Magnitude of Impact	Sensitivity of Receptor	Embedded measures	Preliminary assessment of residual effect (significance)
Construction					
Impact on employment	UK	Negligible	Very high	C-34 and C-35	Negligible (not significant).
Impact on employment	Sussex	Negligible	Very high	C-34 and C-35	Negligible (not significant).
Impact on GVA	UK	Negligible	Very high	C-34 and C-35	Negligible (not significant).
Impact on GVA	Sussex	Negligible	Very high	C-34 and C-35	Negligible (not significant).
Impact on volume and value of tourism economy	Sussex	Negligible	Very high	C-19, C-22, C-26, C-32, C-46, and C-66	Negligible (not significant).
Impact on access to and enjoyment of	PEIR boundary (onshore)	Minor to moderate and major (for interruption to	Low to high	C-1, C-3, C-4, C-18, C-19, C-20, C-22, C-26, C-32,	Minor (not significant) on PRow users of 2191_2, 2260, 2213,

Activity and impact	Study Area	Magnitude of Impact	Sensitivity of Receptor	Embedded measures	Preliminary assessment of residual effect (significance)
onshore recreation activity		public events and closure/diversion of PRow).		C-33, C-43, C-128, C-161, C-162, C-164 and C-168	<p>2256_1, 2214, 2191, 3558_1, and 2219; users of the Washington public green space and event attendees.</p> <p>Moderate (significant) on PRow users of 829, 197, 2697 and 2298.</p> <p>Moderate/major (significant) on PRow users of 36Bo and 1T.</p>
Impact on access to and enjoyment of inshore and offshore recreation activity	PEIR boundary (offshore)	<p>Negligible (for inshore recreation).</p> <p>Minor (for excavation of HDD exit pits, seabed preparation, and installation of export cable).</p> <p>Moderate (for installation of foundations, array</p>	Low to high	C-4, C-46, C-56, C-85, C-100 and C-101.	<p>Negligible (not significant) on bathing, and kite/wind surfing.</p> <p>Minor (not significant) on recreational sailing, canoeing, paddle boarding and kayaking.</p> <p>Moderate (significant) on recreational angling.</p>

Activity and impact	Study Area	Magnitude of Impact	Sensitivity of Receptor	Embedded measures	Preliminary assessment of residual effect (significance)
		cables, WTG and offshore substations).			Moderate/Major (significant) on scuba diving.
Operations					
Impact on employment	UK	Negligible	Very high	C-34 and C-35	Negligible (not significant).
Impact on employment	Sussex	Negligible	Very high	C-34 and C-35	Negligible (not significant).
Impact on GVA	UK	Negligible	Very high	C-34 and C-35	Negligible (not significant).
Impact on GVA	Sussex	Negligible	Very high	C-34 and C-35	Negligible (not significant).
Impact on volume and value of tourism economy	Sussex	Negligible	Very high	C-1, C-7, C-9, C-26, C-46, C-53 and C-163	Negligible (not significant).

Activity and impact	Study Area	Magnitude of Impact	Sensitivity of Receptor	Embedded measures	Preliminary assessment of residual effect (significance)
Impact on access to and enjoyment of onshore recreation activity	PEIR boundary (onshore)	Mostly negligible Major (for PRoW 36Bo and 1T).	Low to high	C-1, C-7, C-9, C-66, C-163 and C-164	Mostly negligible (not significant) but moderate/major (significant) on PRoW users of 36Bo and 1T.
Impact on access to and enjoyment of inshore and offshore recreation activity	PEIR boundary (offshore)	Negligible for bathing and kite/wind surfing (inshore) Minor for scuba diving, recreational angling, and recreational sailing, canoeing and kayaking	Low to high	C-4, C-43, C-46, C-53, C-56 and C-85	Negligible (not significant) for bathing, kite/wind surfing, and recreational sailing, canoeing and kayaking. Minor (not significant) for recreational angling. Minor/moderate (not significant) for scuba diving
Decommissioning					
Impact on employment	UK	Negligible	Very high	C-34 and C-35	Negligible (not significant).

Activity and impact	Study Area	Magnitude of Impact	Sensitivity of Receptor	Embedded measures	Preliminary assessment of residual effect (significance)
Impact on employment	Sussex	Negligible	Very high	C-34 and C-35	Negligible (not significant).
Impact on GVA	UK	Negligible	Very high	C-34 and C-35	Negligible (not significant).
Impact on GVA	Sussex	Negligible	Very high	C-34 and C-35	Negligible (not significant).
Impact on volume and value of tourism economy	Sussex	Negligible	Very high	C-19, C-22, C-26, C-32, C-46, and C-66	Negligible (not significant).
Impact on access to and enjoyment of onshore recreation activity	PEIR boundary (onshore)	Mostly negligible Major (for PRoW 36Bo and 1T).	Low to high	C-22, C-26, C-33, and C-46	Mostly negligible (not significant) but moderate/major (significant) on PRoW users of 36Bo and 1T
Impact on access to and enjoyment of inshore and offshore recreation activity	PEIR boundary (offshore)	Negligible (for activities within the inshore zone), to moderate (for activities related	Low to high	C-4, C-46, C-56, C-85, C-100 and C-101.	Negligible (not significant) on bathing, and kite/wind surfing. Minor (not significant) on recreational sailing,

Activity and impact	Study Area	Magnitude of Impact	Sensitivity of Receptor	Embedded measures	Preliminary assessment of residual effect (significance)
		the removal of WTG foundations, offshore substations decommissioning and cable removal).			canoeing, paddle boarding and kayaking. Moderate (significant) on recreational angling. Moderate/Major (significant) on scuba diving.

Table G-2 Summary of landscape effects on onshore substation search area option A

Landscape Character Area	Sensitivity	Geographical Scale	Construction (3 Years)		Operation and maintenance (Year 1)		Decommissioning	
			Magnitude	Level of effect	Magnitude	Level of effect	Magnitude	Level of effect
NCA 121: Low Weald /NCA 122: High Weald								
J3: Cowfold and Shermanbury Farmlands (also part of LW10: Eastern Low Weald County LCA within West Sussex)	High-medium	<100-250m	High (<100-250m) to Zero	Major to Major /Moderate (<100-250m) to Negligible	High (<100-250m) to Zero	Major to Major /Moderate (<100-250m) to Negligible	High (<100-250m) to Zero	Major to Major /Moderate (<100-250m) to Negligible
M1 Crabtree & Nuthurst Ridges & Ghylls LCA (also part of HW4: High Weald Fringes LCA within West Sussex)	High (north) to Medium (south)	<250m	Medium - low	Moderate /Minor (southern fringes) to Minor /Negligible to Negligible (remainder of the LCA)	Medium-low (southern fringes) to Negligible-Zero (remainder of the LCA)	Moderate /Minor (southern fringes) to Minor /Negligible to Negligible (remainder of the LCA)	Medium-low to Negligible-Zero	Moderate /Minor (southern fringes) to Minor /Negligible to Negligible (remainder of the LCA)
LW1 Hickstead Low Weald LCA (also part of LW10: Eastern Low Weald LCA within West Sussex)	Medium	<100-250m	Negligible-Zero	Minor /Negligible	Negligible - Zero	Minor /Negligible	Negligible-Zero	Minor /Negligible

Table G-3 Summary of visual effects on onshore substation search area option A

Visual Receptor	Sensitivity	Construction (3 Years)		Operation and maintenance (Year 1)		Decommissioning	
		Magnitude	Level of effect	Magnitude	Level of effect	Magnitude	Level of effect
Settlements							
Cowfold	High	Zero	No Effect	Zero	No Effect	Zero	No Effect
Transport Routes							
A272	Medium	High (within 300m) to Negligible-Zero	Major /Moderate (up to 300m) to Minor /Negligible to Negligible (remainder of route)	High (within 300m) to Negligible-Zero	Major /Moderate (up to 300m) to Minor /Negligible to Negligible (remainder of route)	High (within 300m) to Negligible-Zero	Major /Moderate (up to 300m) to Minor /Negligible to Negligible (remainder of route)
A281	Medium	Zero	No Effect	Zero	No Effect	Zero	No Effect
Kent Street	Medium	High to Medium-high (within 1km of route) to Negligible-Zero	Major /Moderate (within 1km of route), to Minor /Negligible to Negligible (remainder of route)	High to Medium-high (within 1km of route) to Negligible-Zero	Major /Moderate (within 1km of route), to Minor /Negligible to Negligible (remainder of route)	High to Medium-high (within 1km of route) to Negligible-Zero	Major /Moderate (within 1km of route), to Minor /Negligible to Negligible (remainder of route)
Recreational Routes							

Visual Receptor	Sensitivity	Construction (3 Years)		Operation and maintenance (Year 1)		Decommissioning	
		Magnitude	Level of effect	Magnitude	Level of effect	Magnitude	Level of effect
PRoW 1786 between east of Taintfield Wood and A272	High	High to Medium-high (much of the route) to Negligible-Zero	Major to Major /Moderate (much of the route), to Minor to Negligible	High to Medium-high (between Taintfield Wood and Oakendene Industrial Estate) to Negligible-Zero	Major to Major /Moderate (between Taintfield Wood and Oakendene Industrial Estate), to Minor to Negligible	High to Medium-high (much of the route) to Negligible-Zero	Major to Major /Moderate (much of the route), to Minor to Negligible
PRoW 1788 between west of Taintfield Wood and Oakendene Industrial Estate	High	High (much of the route)	Major (much of the route), to Minor to Negligible	High (between Taintfield Wood to southern end of Oakendene Industrial Estate) to Negligible-Zero	Major (between Taintfield Wood and southern end of Oakendene Industrial Estate), to Minor to Negligible	High (much of the route)	Major (much of the route)
PRoW 1775 and 1777	High	Zero	No Effect	Zero	No Effect	Zero	No Effect

Visual Receptor	Sensitivity	Construction (3 Years)		Operation and maintenance (Year 1)		Decommissioning	
		Magnitude	Level of effect	Magnitude	Level of effect	Magnitude	Level of effect
near Eastlands Farm							
Recreational and Tourist Destinations							
None assessed							

Table G-4 Summary of landscape effects on onshore substation search area option B

Landscape Character Area	Sensitivity	Geographical scale	Construction (3 Years)		Operation and maintenance (Year 1)		Decommissioning	
			Magnitude	Level of effect	Magnitude	Level of effect	Magnitude	Level of effect
NCA 121: Low Weald								
LW1: Hickstead Low Weald (also part of LW10: Eastern Low Weald LCA within West Sussex)	Medium to Medium-low	<100-200m	High to Zero (beyond 100m)	Major /Moderate to Moderate (100-200m) to Negligible	High to Zero	Major /Moderate to Moderate (100-200m) to Negligible	High to Zero	Major /Moderate to Moderate (100-200m) to Negligible
J3 Cowfold & Shermanbury Farmlands (also part of LW10: Eastern Low Weald LCA within West Sussex)	High-medium	<100m	Low to Negligible-Zero	Moderate /Minor to Minor	Low to Negligible - Zero	Moderate /Minor to Minor	Low to Negligible-Zero	Moderate /Minor to Minor

Table G-5 Summary of visual effects on onshore substation search area option B

Visual Receptor	Sensitivity	Construction (3 Years)		Operation and maintenance (Year 1)		Decommissioning	
		Magnitude	Level of effect	Magnitude	Level of effect	Magnitude	Level of effect
Settlements							
None within 2km							
Transport Routes							
Wineham Lane	Medium	High to Low (within 300m) to Negligible-Zero	Major /Moderate (up to 300m) to Minor /Negligible to Negligible (remainder of route)	High to Low (within 300m) to Negligible-Zero	Major /Moderate (up to 300m) to Minor /Negligible to Negligible (remainder of route)	High to Low (within 300m) to Negligible-Zero	Major /Moderate (up to 300m) to Minor /Negligible to Negligible (remainder of route)
Bolney Chapel Road	Medium	Low to Negligible-Zero	Minor /Negligible to Negligible	Low to Negligible-Zero	Minor /Negligible to Negligible	Low to Negligible-Zero	Minor /Negligible to Negligible
Recreational Routes							
PRoW 1T /36Bo between Wineham	High	High to Medium (between east of Old	Major to Major /Moderate (between east of Old Doctors and northern edge	High to Medium (between east of Old	Major to Major /Moderate (between east of Old Doctors and northern edge	High to Medium (between east of Old	Major to Major /Moderate (between east of Old Doctors and northern edge of

Visual Receptor	Sensitivity	Construction (3 Years)		Operation and maintenance (Year 1)		Decommissioning	
		Magnitude	Level of effect	Magnitude	Level of effect	Magnitude	Level of effect
Lane and Coombe House		Doctors and northern edge of search area) to Negligible-Zero	of search area), to Minor to Negligible (remainder of route)	Doctors and northern edge of search area) to Negligible-Zero	of search area), to Minor to Negligible (remainder of route)	Doctors and northern edge of search area) to Negligible-Zero	search area), to Minor to Negligible (remainder of route)
PRoW 8T /34Bo between Bob Lane and Coombe House	High	High (between north of Rampion 1 onshore substation and eastern boundary of search area) to Medium-low (between north of search area and	Major to Moderate (between north of search area and east of Coombe House), to Minor to Negligible (remainder of route)	High (between north of Rampion 1 onshore substation and eastern boundary of search area) to Medium-low (between north of search area and	Major to Moderate (between north of search area and east of Coombe House), to Minor to Negligible (remainder of route)	High (between north of Rampion 1 onshore substation and eastern boundary of search area) to Medium-low (between north of search area and	Major to Moderate (between north of search area and east of Coombe House), to Minor to Negligible (remainder of route)

Visual Receptor	Sensitivity	Construction (3 Years)		Operation and maintenance (Year 1)		Decommissioning	
		Magnitude	Level of effect	Magnitude	Level of effect	Magnitude	Level of effect
		east of Coombe House), to Negligible-Zero		east of Coombe House), to Negligible-Zero		east of Coombe House), to Negligible-Zero	
PRoW 32Bo at Nyeshill Farm	High	Low to Negligible-Zero	Moderate to Minor	Low to Negligible-Zero	Moderate to Minor	Low to Negligible-Zero	Moderate to Minor
Recreational and Tourist Destinations							
Wineham Lane Caravan Park	High	Zero	No Effect	Zero	No Effect	Zero	No Effect

Table G-6 Summary of landscape effects on the onshore cable corridor (includes landfall, temporary construction compounds and access routes)

Local Landscape Character Area (>1km)	Sensitivity	Geographical Scale*	Construction (3.5 Years)		Operation and maintenance (Year 1)		Decommissioning	
			Magnitude	Level of effect	Magnitude	Level of effect	Magnitude	Level of effect
NCA 126: South Coastal Plain – Climping to Arundel								
South Coast Shoreline (SC1) - No effect								
Climping Lower Coastal Plain LCA No. 31	Medium-low	<500m	Medium - high	Moderate	Negligible -zero	Negligible	N/A	N/A
Lower Arun Valley Floor LCA No. 35	Medium-low	<1km	Medium - low	Minor	Negligible -zero	Negligible	N/A	N/A
- Landscape character within 1 field unit		<500m	Medium - high	Moderate	Negligible -zero	Negligible	N/A	N/A
Ford and Horsemere Green Townscapes:								
- Church Lane, Horsemere Green	Medium-low	<250m	Medium - high	Moderate	Negligible -zero	Negligible	N/A	N/A

Local Landscape Character Area (>1km)	Sensitivity	Geographical Scale*	Construction (3.5 Years)		Operation and maintenance (Year 1)		Decommissioning	
			Magnitude	Level of effect	Magnitude	Level of effect	Magnitude	Level of effect
- Ford Lane, Ford	High	<250m	Medium - high	Major /Moderate	Medium - high	Moderate**	N/A	N/A
Middle Arun Valley Floor LCA No. 34	Medium-low	<1km	Medium	Moderate /Minor	Negligible – zero	Negligible	N/A	N/A
- Landscape character within 1 field unit		<250m	Medium - high	Moderate	Negligible -zero	Negligible	N/A	N/A
Littlehampton Arun Valley Sides LCA No. 38	Low	<250m	Low	Moderate /Minor	Negligible – zero	Negligible	N/A	N/A
Littlehampton Northern Fringe No.39	Low	<500m	Negligible – zero	Negligible	Zero	No Effect	N/A	N/A
Black Ditch Rife LCA No. 41	Medium-low	<250m	Negligible – zero	Negligible	Zero	No Effect	N/A	N/A
Lyminster Arun Valley Sides LCA No. 37	Medium	<500m	Medium - low	Moderate /Minor	Negligible – zero	Minor /Negligible	N/A	N/A

Local Landscape Character Area (>1km)	Sensitivity	Geographical Scale*	Construction (3.5 Years)		Operation and maintenance (Year 1)		Decommissioning	
			Magnitude	Level of effect	Magnitude	Level of effect	Magnitude	Level of effect
- Landscape character within 1 field unit	Medium	<250m	Medium - high	Moderate	Negligible - zero	Minor /Negligible	N/A	N/A
- Landscape elements (mature trees)	High - medium	<100m	Medium - high	Moderate	Low	Minor	N/A	N/A
<u>Onshore cable corridor option: Warningcamp B</u>								
Lyminster Angmering Coastal Plain No. 40	Medium	<500m	Medium - low	Moderate to Minor	Low to Negligible - zero	Minor to Minor /Negligible	N/A	N/A
- Landscape character within 1 field unit	Medium	<250m	Medium - high	Moderate			N/A	N/A
Crossbush Arun Valley Sides LCA No. 36	Medium	Whole LCA	Negligible - zero	Minor /Negligible	Zero	No Effect	N/A	N/A
South Downs Upper Coastal Plain R1	High	<250m	Negligible - zero	Minor	Zero	No Effect	N/A	N/A

Local Landscape Character Area (>1km)	Sensitivity	Geographical Scale*	Construction (3.5 Years)		Operation and maintenance (Year 1)		Decommissioning	
			Magnitude	Level of effect	Magnitude	Level of effect	Magnitude	Level of effect
Arun Valley Sides G4	High	<500m	Negligible - zero	Minor	Zero	No Effect	N/A	N/A
Landscape and elements within 1 field unit	High - medium	<250m	Medium - high	Major	Medium - low	Moderate**	N/A	N/A
<u>Onshore cable corridor option: Warningcamp C</u>								
Lyminster Angmering Coastal Plain No. 40	Medium	<500m	Medium - low	Moderate to Minor	Low to Negligible - zero	Minor /Negligible Minor	N/A	N/A
- Landscape and elements within 1 field unit	Medium	<250m	Medium - high	Moderate			N/A	N/A
South Downs Upper Coastal Plain R1	High	<250m	Negligible - zero	Minor	Zero	No Effect	N/A	N/A
- Landscape and elements within 1 field unit	High	<250m	Medium - high	Major	Medium - low	Moderate**	N/A	N/A

Local Landscape Character Area (>1km)	Sensitivity	Geographical Scale*	Construction (3.5 Years)		Operation and maintenance (Year 1)		Decommissioning	
			Magnitude	Level of effect	Magnitude	Level of effect	Magnitude	Level of effect
NCA 125: South Downs and South Downs National Park – Crossbush to Wiston								
Arun Valley Sides G4 (South Warningcamp)	High	>250m	Medium - low	Moderate	Low	Moderate	N/A	N/A
- Landscape and elements within 1 field unit	High	<250m	Medium - high	Major	Medium - low	Moderate**	N/A	N/A
Angmering and Clapham Wooded Estate Downland B4	High - medium	Whole LCA	Negligible - zero	Minor	Negligible - zero	Minor	N/A	N/A
- Landscape and elements within 1 field unit	High - medium	<250m	Medium - high	Major /Moderate	Low	Moderate /Minor	N/A	N/A
Arun Valley Sides G4 (North Warningcamp)	High	<500m	Medium - low	Moderate	Low	Moderate	N/A	N/A
- Landscape and elements within 1 field unit	High	<250m	Medium - high	Major	Low	Moderate**	N/A	N/A

Local Landscape Character Area (>1km)	Sensitivity	Geographical Scale*	Construction (3.5 Years)		Operation and maintenance (Year 1)		Decommissioning	
			Magnitude	Level of effect	Magnitude	Level of effect	Magnitude	Level of effect
Arun to Adur Open Downs A3	High	<1km	High to Low	Major to Moderate	Low	Moderate	N/A	N/A
- Landscape elements within onshore cable corridor	High	<100m	High	Major	Low	Moderate**	N/A	N/A
Arun to Adur Downs Scarp I3	High	N/A	Negligible - zero	Minor	Zero	No Effect	N/A	N/A
Arun to Adur Scarp Footslopes J3	High	>250m	Low to Negligible	Moderate to Minor	Low to Negligible	Moderate to Minor	N/A	N/A
- Landscape and elements within 1 field unit	High	<250m	Medium - high	Major to Major /Moderate	Low	Moderate**	N/A	N/A
Arun Floodplain F4	High	500m- 1km	Negligible - zero	Minor	Zero	No Effect	N/A	N/A

NCA 121: Low Weald – Wiston to Bolney

Local Landscape Character Area (>1km)	Sensitivity	Geographical Scale*	Construction (3.5 Years)		Operation and maintenance (Year 1)		Decommissioning	
			Magnitude	Level of effect	Magnitude	Level of effect	Magnitude	Level of effect
Amberley to Steyning Farmlands D1	Medium	Wider LCA	Negligible - zero	Minor /Negligible	Zero	No Effect	N/A	N/A
- Landscape elements (pasture field)	Low	<250m	High	Moderate /Minor	Zero	No Effect	N/A	N/A
Parham & Storrington Wooded Farmlands & Heaths E1	Medium - Low	Wider LCA	Negligible - zero	Negligible	Zero	No Effect	N/A	N/A
		<250m	Medium - high	Moderate	Zero	No Effect	N/A	N/A
Pulborough, Chiltington & Thakeham Farmlands F1	Medium	Wider LCA	Negligible - zero	Minor /Negligible	Zero	No Effect	N/A	N/A
- Landscape character within 1-2 field units	Medium	<250m	Medium-high	Moderate	Low to Negligible	Minor	N/A	N/A
- Landscape elements (trees)	High - medium	<100m	High	Major	Medium - low	Moderate**	N/A	N/A

Local Landscape Character Area (>1km)	Sensitivity	Geographical Scale*	Construction (3.5 Years)		Operation and maintenance (Year 1)		Decommissioning	
			Magnitude	Level of effect	Magnitude	Level of effect	Magnitude	Level of effect
Ashurst & Wiston Wooded Farmlands G1	High - medium	Wider LCA	Negligible - zero	Minor	Negligible - zero	Minor	N/A	N/A
- Landscape character within 1 field unit	High - medium	<250m	Medium - high	Major /Moderate	Low to Negligible	Moderate to Minor	N/A	N/A
- Landscape elements (trees)	High	<250m	High	Major	Low	Moderate**	N/A	N/A
Steyning & Henfield Brooks O3	Medium	Wider LCA	Negligible - zero	Minor /Negligible	Zero	No Effect	N/A	N/A
- Landscape character within 1 field unit	Medium	<250m	Medium - high	Moderate	Low to Negligible	Minor	N/A	N/A
- Landscape elements (trees)	High - medium	<250m	Medium - high	Major /Moderate	Low	Moderate**	N/A	N/A
Cowfold & Shermanbury Farmlands J3	Medium	Wider LCA	Negligible - zero	Minor /Negligible	Negligible - zero	Minor	N/A	N/A

Local Landscape Character Area (>1km)	Sensitivity	Geographical Scale*	Construction (3.5 Years)		Operation and maintenance (Year 1)		Decommissioning	
			Magnitude	Level of effect	Magnitude	Level of effect	Magnitude	Level of effect
- Landscape character within 1 field unit	Medium	<250m	Medium - high	Moderate	Low to Negligible	Minor	N/A	N/A
- Landscape elements (trees)	High	<250m	High	Major	Low	Moderate**	N/A	N/A
Upper Adur Valleys P2 – Not assessed pending further design maturity.								
Hickstead Low Weald LW1	Medium	Wider LCA	Negligible - zero	Minor /Negligible	Negligible - zero	Minor	N/A	N/A
Landscape character within 1-2 field units	Medium	<250m	High	Major /Moderate	High	Major /Moderate***	N/A	N/A
Landscape elements (trees and hedges)	High	<250m	High	Major	High	Major /Moderate***	N/A	N/A

Table G-7 Summary of visual effects on the onshore cable corridor (includes landfall, temporary construction compounds and access routes)

Visual Receptor	Sensitivity	Construction (3.5 Years)		Operation and maintenance (Year 1)		Decommissioning	
		Magnitude	Level of effect	Magnitude	Level of effect	Magnitude	Level of effect
SETTLEMENTS							
Settlements (Climping to Arundel – south of SDNP)							
Climping	High	High to Negligible-Zero	Major to Major /Moderate (due to TCoC** and Access Routes) to Minor	Low to Negligible-Zero	Moderate to Minor	N/A	N/A
Littlehampton	High	High to Negligible-Zero	Major to Major /Moderate (due to OCC*) to Minor	Zero	N/A	N/A	N/A
Lyminster	High	Medium-low to Negligible-Zero	Moderate to Minor, to Negligible	Zero	N/A	N/A	N/A
Arundel	High	Low to Negligible-Zero	Moderate to Minor, to Minor	Zero	N/A	N/A	N/A

Visual Receptor	Sensitivity	Construction (3.5 Years)		Operation and maintenance (Year 1)		Decommissioning	
		Magnitude	Level of effect	Magnitude	Level of effect	Magnitude	Level of effect
Settlements (Arundel to Wiston - within SDNP)							
Crossbush	High	High to Medium to Negligible-Zero	Major to Major /Moderate (due to OCC* and Access Routes) to Minor	Zero	N/A	N/A	N/A
Warningcamp	High	High to Negligible-Zero	Major (due to OCC*) to Minor	Medium-high to Negligible-Zero	Major (due to OCC*) to Negligible	N/A	N/A
Burpham and Wepham	High	Medium to Negligible-Zero	Major /Moderate (due to Access Route at Wepham) to Minor	Negligible-Zero	Minor	N/A	N/A
Washington	High	Low to Negligible-Zero	Moderate to Minor	Zero	N/A	N/A	N/A
Settlements (Wiston to Bolney – north of SDNP)							

Visual Receptor	Sensitivity	Construction (3.5 Years)		Operation and maintenance (Year 1)		Decommissioning	
		Magnitude	Level of effect	Magnitude	Level of effect	Magnitude	Level of effect
Wiston	High	High to Negligible-Zero	Major (due to OCC*) to Minor	Negligible-Zero	Minor	N/A	N/A
Ashurst	High	Medium-low to Negligible-Zero	Moderate to Minor	Negligible-Zero	Minor	N/A	N/A
Partridge Green	High	High to Negligible-Zero	Major (due to Access Routes) to Minor	Low to Negligible-Zero	Moderate to Minor	N/A	N/A
Shermanbury	High	Medium to Negligible-Zero	Major /Moderate (due to OCC* and Access Routes) to Minor	Zero	N/A	N/A	N/A
Wineham	High	Low to Negligible-Zero	Moderate to Minor, to Minor	Zero	N/A	N/A	N/A
TRANSPORT ROUTES							
Transport Routes (Climping to Arundel – south of SDNP)							
Climping Street	Medium	Negligible-Zero	Minor /Negligible	Zero	N/A	N/A	N/A

Visual Receptor	Sensitivity	Construction (3.5 Years)		Operation and maintenance (Year 1)		Decommissioning	
		Magnitude	Level of effect	Magnitude	Level of effect	Magnitude	Level of effect
A259	Medium	Medium to Negligible-Zero	Moderate (TCoC**) to Minor /Negligible	Zero	N/A	N/A	N/A
Ferry Road	Medium to High	Low to Negligible-Zero	Moderate to Moderate /Minor, to Minor /Negligible	Zero	N/A	N/A	N/A
Church Lane	Medium	High to Medium-high, to Negligible-Zero	Major /Moderate (TCoC**) to Negligible	Medium to Negligible-Zero	Moderate (TCoC** & Access Routes) to Negligible	N/A	N/A
Ford Road	Medium	Medium to Negligible-Zero	Moderate (Access Routes) to Minor /Negligible	Negligible-Zero	Minor /Negligible to Negligible	N/A	N/A
A284 Lyminster Road	Medium	Medium to Negligible-Zero	Moderate to Minor / Negligible	Zero	N/A	N/A	N/A
A27	Medium	Negligible-Zero	Minor /Negligible	Zero	N/A	N/A	N/A

Visual Receptor	Sensitivity	Construction (3.5 Years)		Operation and maintenance (Year 1)		Decommissioning	
		Magnitude	Level of effect	Magnitude	Level of effect	Magnitude	Level of effect
Railway Line from Littlehampton and Ford to Arundel	Medium	Medium-high to Negligible-Zero	Major /Moderate (OCC*) to Minor /Negligible	Negligible-Zero	Minor /Negligible to Negligible	N/A	N/A
Transport Routes (Arundel to Wiston - within SDNP)							
Crossbush Lane	High-medium	Medium-high to Negligible-Zero	Major /Moderate (Access Routes - Warningcamp C route option), to Minor	Negligible-Zero	Minor	N/A	N/A
Local roads around Warningcamp (Clay Lane and Blakehurst Lane)	High-medium	High to Negligible-Zero	Major to Major /Moderate (OCC*), to Minor	Medium-high to Negligible-Zero	Major /Moderate (OCC*), to Minor	N/A	N/A
Local roads around Wepham and Burpham	High-medium	Medium to Negligible-Zero	Major /Moderate (Access Routes in Wepham), to Minor	Low to Negligible-Zero	Moderate to Minor, to Minor	N/A	N/A

Visual Receptor	Sensitivity	Construction (3.5 Years)		Operation and maintenance (Year 1)		Decommissioning	
		Magnitude	Level of effect	Magnitude	Level of effect	Magnitude	Level of effect
A24	Medium	Negligible-Zero	Minor /Negligible to Negligible	Zero	N/A	N/A	N/A
A283	Medium	High to Negligible-Zero	Major /Moderate (OCC*, TCoC** & Access Routes), to Minor	Negligible-Zero	Minor /Negligible	N/A	N/A
Railway Line from Arundel to Amberley	High-medium	Negligible-Zero	Minor /Negligible	Zero	N/A	N/A	N/A
Transport Routes (Wiston to Bolney – north of SDNP)							
Water Lane, Wiston	Medium	High to Negligible-Zero	Major /Moderate (OCC*), to Minor /Negligible	Medium to Negligible	Moderate (OCC*) to Minor	N/A	N/A
Spithandle Lane	Medium	Medium to Negligible-Zero	Moderate (Access Routes*), to Minor /Negligible	Negligible-Zero	Minor /Negligible	N/A	N/A

Visual Receptor	Sensitivity	Construction (3.5 Years)		Operation and maintenance (Year 1)		Decommissioning	
		Magnitude	Level of effect	Magnitude	Level of effect	Magnitude	Level of effect
B2135	Medium	High to Medium-high, to Negligible-Zero	Major /Moderate to Moderate (OCC* & Access Routes), to Minor /Negligible	Medium to Negligible-Zero	Moderate (OCC*) to Minor	N/A	N/A
B2116	Medium	High to Medium, to Negligible-Zero	Major /Moderate to Moderate (OCC* & Access Routes), to Minor /Negligible	Medium to Negligible-Zero	Moderate (OCC*) to Minor	N/A	N/A
A281	Medium	Medium-high to Negligible-Zero	Major /Moderate (Access Routes), to Minor /Negligible	Negligible-Zero	Minor /Negligible	N/A	N/A
Wineham Lane	Medium	High to Negligible-Zero	Major /Moderate (OCC* & Access Routes), to Minor /Negligible	Medium-high to Negligible-Zero	Major /Moderate (OCC*), to Minor /Negligible	N/A	N/A

Visual Receptor	Sensitivity	Construction (3.5 Years)		Operation and maintenance (Year 1)		Decommissioning	
		Magnitude	Level of effect	Magnitude	Level of effect	Magnitude	Level of effect
Bob Lane	Medium	High to Negligible-Zero	Major /Moderate (OCC*), to Minor /Negligible	Medium-high to Negligible-Zero	Major /Moderate (OCC*), to Minor /Negligible	N/A	N/A
Kent Street	Medium	High to Negligible-Zero	Major /Moderate (OCC*), to Minor /Negligible	Medium-high to Negligible-Zero	Major /Moderate (OCC*), to Minor /Negligible	N/A	N/A
Bolney Chapel Road	Medium	Negligible-Zero	Minor /Negligible	Zero	N/A	N/A	N/A
Fryland Lane	Medium	High to Negligible-Zero	Major /Moderate (OCC*), to Minor /Negligible	Zero	N/A	N/A	N/A

RECREATIONAL ROUTES - PRoW (For PRoW reference Summary table in Table 5)

RECREATIONAL ROUTES - Long Distance Recreational Routes

Visual Receptor	Sensitivity	Construction (3.5 Years)		Operation and maintenance (Year 1)		Decommissioning	
		Magnitude	Level of effect	Magnitude	Level of effect	Magnitude	Level of effect
South Downs Way	High	High to Negligible-Zero	Major to Moderate (OCC*) affecting 2.25km of route, to Minor	Negligible-Zero	Minor	N/A	N/A
South Coast Cycle Route (Sustrans NCR 2)	High	Medium to Negligible-Zero	Major/Moderate (TCoC**), to Minor	Zero	N/A	N/A	N/A
Downs Link (Sustrans NCR 223)	High	High to Negligible-Zero	Major to Major /Moderate (OCC* & Access Routes) affecting 500km of route, to Minor	Low to Negligible-Zero	Minor	N/A	N/A
Arun Way	High	High to Negligible-Zero	Major to Major /Moderate (OCC*) affecting 800m of route, to Minor	Low to Negligible-Zero	Moderate (OCC*) to Minor	N/A	N/A
Monarch's Way	High	High to Negligible-Zero	Major (OCC*) affecting 600m of route, to Minor	Low to Negligible-Zero	Minor	N/A	N/A

Visual Receptor	Sensitivity	Construction (3.5 Years)		Operation and maintenance (Year 1)		Decommissioning	
		Magnitude	Level of effect	Magnitude	Level of effect	Magnitude	Level of effect
RECREATIONAL AND TOURIST DESTINATIONS							
Recreational and Tourist Destinations (Climping to Arundel – south of SDNP)							
Littlehampton Golf Club	High	Negligible-Zero	Minor	Zero	N/A	N/A	N/A
Littlehampton West and East Beach including Climping Beach	High	Medium to Negligible-Zero	Major /Moderate (OCC*) (Climping Beach) to Minor	Zero	N/A	N/A	N/A
Climping Camp Site	High	High to Medium-high	Major to Major /Moderate (OCC* & Access Routes), to Minor	Zero	N/A	N/A	N/A
Climping Caravan Park	High	High to Medium-high	Major to Major /Moderate (OCC*, TCoC** & Access Routes), to Minor	Zero	N/A	N/A	N/A

Visual Receptor	Sensitivity	Construction (3.5 Years)		Operation and maintenance (Year 1)		Decommissioning	
		Magnitude	Level of effect	Magnitude	Level of effect	Magnitude	Level of effect
Brookside Caravan Park	High	Medium-low to Negligible	Moderate (Access Routes) to Minor	Zero	N/A	N/A	N/A
Recreational and Tourist Destinations (Arundel to Wiston - within SDNP)							
Crossbush Caravan Park	High	Negligible-Zero	Minor	Zero	N/A	N/A	N/A
Arundel Castle	High	Low to Negligible-Zero	Moderate to Minor	Zero	N/A	N/A	N/A
Arundel Park Open Access Land	High	Low to Negligible-Zero	Moderate to Minor	Zero	N/A	N/A	N/A
Perry Hill Open Access Land	High	Zero	N/A	Zero	N/A	N/A	N/A
Barpham Hill Open Access Land	High	Medium-high to Negligible-Zero	Major to Major /Moderate (OCC*), to Minor	Zero	N/A	N/A	N/A

Visual Receptor	Sensitivity	Construction (3.5 Years)		Operation and maintenance (Year 1)		Decommissioning	
		Magnitude	Level of effect	Magnitude	Level of effect	Magnitude	Level of effect
Chantry Hill Open Access Land	High	High to Medium-high to Low to Negligible-Zero	Major /Moderate (Access Routes), to Moderate (OCC*), to Minor	Zero	N/A	N/A	N/A
Sullington Hill Open Access Land	High	High to Medium-high, to Negligible-Zero	Major (OCC*), to Major /Moderate (Access Routes*), to Minor	Zero	N/A	N/A	N/A
Chanctonbury Hill (including Chanctonbury Ring and Open Access Land)	High	Low to Negligible-Zero	Moderate to Minor	Zero	N/A	N/A	N/A
Recreational and Tourist Destinations (Wiston to Bolney – north of SDNP)							
Washington Caravan Park	High	High to Medium-high, to Negligible-Zero	Major to Major /Moderate (TCoC**) to Minor	Zero	N/A	N/A	N/A

Visual Receptor	Sensitivity	Construction (3.5 Years)		Operation and maintenance (Year 1)		Decommissioning	
		Magnitude	Level of effect	Magnitude	Level of effect	Magnitude	Level of effect
Wineham Lane Caravan Park	High	High to Negligible-Zero	Major (OCC*) to Minor	Zero	N/A	N/A	N/A

* OCC - Onshore Cable Corridor

** TCoC - Temporary Construction Compound

Table G-8 Summary of preliminary air quality assessment of residual effects

Activity and impact	Magnitude of impact	Receptor and sensitivity or value	Embedded environmental measures	Preliminary assessment of residual effect (significance)
Construction				
Emissions of air pollutants from construction traffic on roads	Minor adverse	In accordance with AQO	None	Minor adverse (Not Significant)
Emissions of air pollutants from construction equipment on site	Minor adverse	In accordance with AQO	None	Minor adverse (Not Significant)
Emissions of dust from construction	Not applicable	Human receptors – High. Ecological receptors – Medium	C-24 and Table 20-22.	Negligible
Emissions of odour from construction	Low	Low	C-6	Negligible
Operation and maintenance				
Emissions of air pollutants during operational phase	Negligible	In accordance with AQO	None	Negligible

Activity and impact	Magnitude of impact	Receptor and sensitivity or value	Embedded environmental measures	Preliminary assessment of residual effect (significance)
Decommissioning				
Emissions of air pollutants from traffic on roads	Minor adverse	In accordance with AQO	None	Minor adverse (Not significant)
Emissions of air pollutants from equipment on site	Negligible	In accordance with AQO	None	Negligible
Emissions of dust from decommissioning	Not applicable	Human receptors – High. Ecological receptors – Medium	C-24 and Table 20-26.	Negligible

Table G-9 Summary of preliminary soils and agriculture assessment of residual effects

Activity and impact	Magnitude of impact	Receptor and sensitivity or value	Embedded environmental measures	Preliminary assessment of residual effect (significance)
Construction				
Changes to soil structure due to inappropriate storage and/or handling of soils or due to the use of heavy machinery which causes compaction	Low or very low	High	C-6, C-11, C-12, C-13, C-113, C-132, C-183	Minor adverse (Not significant) to Moderate adverse (Potentially significant)
Soil erosion due to inappropriate storage and/or construction activities	Low or very low	High	C-7, C-11, C-12, C-132, C-133, C-183	Minor adverse (Not significant) to Moderate adverse (Potentially significant)
Temporary loss of topsoil due to removal associated with construction activities	Low or very low	High	C-7, C-11, C-12, C-13, C-183	Minor adverse (Not significant) to

Activity and impact	Magnitude of impact	Receptor and sensitivity or value	Embedded environmental measures	Preliminary assessment of residual effect (significance)
				Moderate adverse (Potentially significant)
Permanent loss of topsoil due to removal associated with construction activities	Very low	High	C-7, C-11, C-12, C-13, C-19, C-133, C-183	Minor adverse (Not significant)
Damage to drainage systems due to construction activities	Very low	High	C-28	Minor adverse (Not significant)
Temporary loss of, or damage to agricultural land during the construction phase	Low or very low	High	C-6, C-11, C-12, C-13, C-113, C-183	Minor adverse (Not significant) to Moderate adverse (Potentially significant)
Permanent loss of agricultural land due to onshore infrastructure	Very low	High	C-183	Minor adverse (Not significant)

Table G-10 Summary of preliminary noise and vibration assessment of residual effects

Activity and impact	Magnitude of change	Receptor and sensitivity or value	Embedded environmental measures	Preliminary assessment of residual effect (significance)
Construction noise				
Temporary noise effects from the construction and operation of the construction compounds	Very Low	Medium (residential)/High (non-residential)	C-22, C-26, C-33	Negligible (Not Significant) (residential) Minor adverse (Not Significant) (non-residential)
Temporary noise effects from the landfall works and trenchless crossings	Medium Very Low	Medium (residential)/High (non-residential)	C-26, C-33	Minor adverse (Not Significant) (residential) Minor adverse (Not Significant) (non-residential)
Temporary noise effects from onshore substation construction	Medium	Medium (residential)	C-22, C-26, C-33	Minor adverse (Not Significant)
Temporary noise effects from onshore cable installation	Low	Medium (residential)/High (non-residential)	C-22, C-26, C-33	Minor adverse (Not Significant) (residential) Minor adverse (Not Significant) (non-residential)

Activity and impact	Magnitude of change	Receptor and sensitivity or value	Embedded environmental measures	Preliminary assessment of residual effect (significance)
Temporary noise effects from construction and use of temporary and permanent accesses	Very Low – Low	Medium (residential)/High (non-residential)	C-22, C-26, C-33	Negligible to Minor adverse (Not Significant) (residential) Minor adverse (Not Significant) (non-residential)
Temporary noise effects from construction road traffic noise	Low	Medium (residential)/High (non-residential)	C-160	Minor adverse (Not Significant) (residential) Minor adverse (Not Significant) (non-residential)
Construction vibration				
Temporary vibration effects from the landworks and trenchless crossings	Low to Medium	Medium (residential)/High (non-residential)	C-22, C-33	Minor adverse significance (Not Significant) (residential) Minor adverse significance (Not Significant) (non-residential)
Temporary vibration effects from construction road traffic	Very Low	Medium (residential)	C-160	Negligible (Not Significant)
Decommissioning noise				

Activity and impact	Magnitude of change	Receptor and sensitivity or value	Embedded environmental measures	Preliminary assessment of residual effect (significance)
Onshore substation decommissioning noise	Medium	Medium (residential)	C-22, C-26, C-33	Minor significance (not significant)
Cumulative Effects Not included at PEIR stage				
Inter-related Effects				
Construction Noise	Medium	Medium (residential)/High (non-residential)	C-22, C-26, C-33	Minor significance (not significant)

Table G-11 Summary of preliminary terrestrial ecology and nature conservation assessment of residual effects

Ecological feature	Magnitude of effect	Importance	Embedded environmental measures	Preliminary assessment of residual effect (significance)
Arun Valley Ramsar site	Negligible	International	C-103, C-104, C-117	Not Significant
Arun Valley SPA	Negligible	International	C-103, C-104, C-117	Not Significant
The Mens SAC	Negligible	International	C-3	Not Significant
Amberley Wild Brooks SSSI	Negligible	National	C-103, C-104, C-117	Not Significant
Pulborough Brooks SSSI	Negligible	National	C-103, C-104, C-117	Not Significant
Arun Valley: Watersfield to Arundel LWS	Negligible	County	C-103, C-104, C-117	Not Significant
Warningcamp to New Down LWS	Medium	County	C-113	Significant
Veteran trees	Negligible	National	C-174	Not Significant

Ecological feature	Magnitude of effect	Importance	Embedded environmental measures	Preliminary assessment of residual effect (significance)
Semi-natural broadleaved woodland	Low	County	C-3	Significant
Calcareous semi-improved grassland	Low	County	C-3	Significant
Native hedgerows (species rich and species poor)	Low	County	C-3	Significant
Standing water (ponds and permanently wet ditches)	Low	County	C-3	Significant
Streams	Low	County	C-3	Significant
Badgers	Unknown	Local	C-3, C-5, C-6, C-21, C-103, C-104, C-105, C-106, C-115	Not Significant
Bats	Unknown	County	C-3, C-5, C-6, C-21, C-103, C-104, C-105, C-106, C-115	Significant

Ecological feature	Magnitude of effect	Importance	Embedded environmental measures	Preliminary assessment of residual effect (significance)
Hazel dormouse	Unknown	County	C-3, C-5, C-6, C-21, C-103, C-104, C-105, C-106, C-115	Significant
Great crested newt	Unknown	County	C-3, C-5, C-6, C-21, C-103, C-104, C-105, C-106, C-115	Significant
Common toad	Unknown	County	C-3, C-5, C-6, C-21, C-103, C-104, C-105, C-106, C-115	Significant
Reptiles	Unknown	Local	C-3, C-5, C-6, C-21, C-103, C-104, C-105, C-106, C-115	Not Significant
Breeding birds	Unknown	International to local	C-3, C-5, C-6, C-21, C-103, C-104, C-105, C-106, C-115	Not Significant

Ecological feature	Magnitude of effect	Importance	Embedded environmental measures	Preliminary assessment of residual effect (significance)
Wintering birds	Negligible	International to local	C-3, C-5, C-6, C-21, C-103, C-104, C-105, C-106, C-115	Not Significant
Fish	Negligible	International to local	C-3, C-5, C-6, C-21, C-103, C-104, C-105, C-106, C-115	Not Significant
Terrestrial and aquatic invertebrates	Negligible	International to local	C-3, C-5, C-6, C-21, C-103, C-104, C-105, C-106, C-115	Not Significant

Table G-12 Onshore construction traffic impact per highways link

Activity and impact	Magnitude of change	Receptor and sensitivity or value	Embedded environmental measures	Preliminary assessment of residual effect (significance)
Construction phase				
Severance	7 Links where GEART thresholds are triggered	Low to High	C-1, C-2, C-18, C-157, C-158, C-159, C-165, C-166, C-169	Negligible - Not Significant
Driver Delay	7 Links where GEART thresholds are triggered	Low to High	C-1, C-2, C-18, C-157, C-158, C-159, C-165, C-166, C-169	Negligible - Not Significant
Pedestrian Amenity, Pedestrian Delay and Fear and Intimidation	7 Links where GEART thresholds are triggered	Low to High	C-1, C-2, C-18, C-157, C-158, C-159, C-165, C-166, C-169	Negligible - Not Significant
Accidents and Safety	7 Links where GEART thresholds are triggered	Low to High	C-1, C-2, C-18, C157, C-158, C-159, C-165. C-166, C-169	Negligible - Not Significant
Operation and maintenance phase				
Severance	Negligible	Negligible to Low	N/A	Negligible - Not Significant

Activity and impact	Magnitude of change	Receptor and sensitivity or value	Embedded environmental measures	Preliminary assessment of residual effect (significance)
Driver Delay	Negligible	Negligible to Low	N/A	Negligible - Not Significant
Pedestrian Amenity, Pedestrian Delay and Fear and Intimidation	Negligible	Negligible to Low	N/A	Negligible - Not Significant
Accidents and Safety	Negligible	Negligible to Low	N/A	Negligible - Not Significant
Decommissioning phase				
Severance	Negligible	Low	C-18, C-32, C-157, C-158, C-159, C164, C-165, C-169.	Negligible - Not Significant
Driver Delay	Negligible	Low	C-18, C-32, C-157, C-158, C-159, C164, C-165, C-169.	Negligible - Not Significant
Pedestrian Amenity, Pedestrian Delay and Fear and Intimidation	Negligible	Low	C-18, C-32, C-157, C-158, C-159, C164, C-165, C-169.	Negligible - Not Significant
Accidents and Safety	Negligible	Low	C-18, C-32, C-157, C-158, C-159, C164, C-165, C-169.	Negligible - Not Significant

Table G-13 Summary of preliminary assessment of residual effects for ground conditions

Activity and impact	Effect	Receptor	Linkage Reference	Embedded environmental measures	Preliminary assessment of residual effect (significance)
Construction					
Construction activities located on, or adjacent to landfills and other potentially contaminated sites such as industrial/waste management facilities and fuel storage/distribution facilities	Mobilisation of contamination via numerous pathways (including groundwater, surface water, preferential pathway creation and leaching from soil) resulting in contamination of controlled waters.	Controlled waters receptors (groundwater and surface waters)	GC-C-1	C-14 C-15 C-24 C-143	Minor Negative (not significant) Noted residual effect is Negligible (not significant) outside of potential sources of contamination)
	Mobilisation of contamination via numerous pathways (including groundwater, surface water, leaching from soil, migration of vapours and windblown dusts) resulting in health effects.	Human health receptors (residential, agricultural land, commercial/industrial and public open space)	GC-C-2	C-14 C-15 C-24 C-143	Negligible (not significant)
	Build-up of gases in confined spaces in existing or newly constructed infrastructure on	Human health receptors (residential, commercial/industrial land)	GC-C-3	C-31 C-69 C-143	Negligible (not significant)

Activity and impact	Effect	Receptor	Linkage Reference	Embedded environmental measures	Preliminary assessment of residual effect (significance)
	and adjacent to the land required for the Proposed Development.	and property (including existing and new infrastructure)			
	Damage to newly constructed infrastructure from aggressive ground conditions (such as sulphate attack on concrete) and geohazards including unstable ground conditions.	Human health receptors, land and property (including existing and new infrastructure)	GC-C-4	C-116	Negligible (not significant)
Construction activities located near to sites of geological importance	Damage to or detrimental impact on sites of geological importance.	Sites of geological importance (SSSIs, RIGS or LIGS)	GC-C-5	C-6	Negligible (not significant)
UXO encounter during construction activities	Damage to existing property or infrastructure in vicinity of construction works or disruption to local communities.	Human health receptors and property (including existing and new infrastructure)	GC-C-6	C-70	Negligible (not significant)
Construction vehicle and equipment maintenance and storage of fuels/oils	Accidental spillages and leaks resulting in ground contamination and risks to controlled waters during	Controlled waters receptors (groundwater and surface waters)	GC-C-7	C-8 C-76 C-149 C-150	Negligible (not significant)

Activity and impact	Effect	Receptor	Linkage Reference	Embedded environmental measures	Preliminary assessment of residual effect (significance)
for construction vehicles and equipment	construction. This includes the potential for leakage of bentonite during HDD.			C-151 C-167	
Construction activities located within or near to minerals sites, preferred areas or safeguarding areas.	The viability of the operation of an ongoing mineral extraction site is reduced either through temporary/permanent sterilisation of a minerals resource or temporary reversal of previous sterilisation allowing access to unworked minerals for a limited period prior to the Proposed Development being constructed.	Mineral sites with valid planning permissions for minerals extraction, and which have not been exhausted by previous extraction. Sites designated as preferred areas for mineral extraction in LPA local plans. Minerals safeguarding areas and minerals consultation areas in LPA local plans.	GC-C-8	-	No effect, Negligible or Minor (not significant)
Operation and maintenance					
Presence of significant quantities of artificial ground, disturbed landfill material or	Generation of landfill leachate, which, if not properly managed, could accumulate and/or migrate to controlled waters.	Controlled waters receptors (groundwater and surface waters)	GC-O-1	C-31 C-69 C-71	Negligible (not significant)

Activity and impact	Effect	Receptor	Linkage Reference	Embedded environmental measures	Preliminary assessment of residual effect (significance)
excavated and re-used material beneath permanent infrastructure	Damage to infrastructure from aggressive ground conditions and geohazards including unstable ground conditions and settlement.	Human health receptors, land and property (including existing and new infrastructure)	GC-O-2	C-31 C-69 C-71	Negligible (not significant)
	Build-up of ground gases in confined spaces in existing or newly constructed infrastructure on and adjacent to the Proposed Development boundary.	Human health receptors (residential, commercial/industrial) and land and property (including existing and new infrastructure)	GC-O-3	C-31 C-69 C-71	Negligible (not significant)
Operational vehicle and equipment maintenance and storage of fuels/oils for operational vehicles and equipment	Accidental spillages and leaks resulting in ground and/or controlled waters contamination.	Controlled waters receptors (groundwater in superficial deposits and surface waters)	GC-O-4	C-153	Negligible (not significant)
Permanent infrastructure located within or near to minerals sites, preferred	The viability of the operation of an ongoing mineral extraction site is reduced or results in permanent sterilisation of a minerals resource.	Mineral sites with valid planning permissions for minerals extraction, and which have not been exhausted by previous extraction.	GC-O-5	-	No effect, Negligible or Minor (not significant)

Activity and impact	Effect	Receptor	Linkage Reference	Embedded environmental measures	Preliminary assessment of residual effect (significance)
	areas or safeguarding areas.	<p>Sites designated as preferred areas for mineral extraction in LPA local plans.</p> <p>Minerals safeguarding areas and minerals consultation areas in LPA local plans.</p>			
Decommissioning					
Decommissioning activities including removal and reinstatement of the onshore substation	Mobilisation of contamination via numerous pathways (including groundwater, surface water and leaching from soil) resulting in contamination of controlled waters.	Controlled waters receptors (groundwater and surface waters)	GC-D1	C-14 C-15 C-24 C-143	Negligible (not significant)
	Mobilisation of contamination via numerous pathways (including groundwater, surface water, leaching from soil, migration of vapours and windblown dusts) resulting in health effects.	Human health receptors (residential, agricultural land, commercial/industrial and public open space)	GC-D-2	C-14 C-15 C-24 C-143	Negligible (not significant)

Activity and impact	Effect	Receptor	Linkage Reference	Embedded environmental measures	Preliminary assessment of residual effect (significance)
	Accidental spillages and leaks resulting in ground contamination and risks to controlled waters during decommissioning.	Controlled waters receptors (groundwater and surface waters)	GC-D-3	C-8 C-76 C-149 C-150 C-151 C-167	Negligible (not significant)

Table G-14 Summary of preliminary historic environment assessment of residual effects

Activity and impact	Magnitude of change	Receptor heritage significance (sensitivity)	Embedded environmental measures	Preliminary assessment of residual effect (significance)
Construction: Zone 1: South Coast Plain				
Effects arising through change to historic landscape character	Low	Low	C-1, C-4, C-5, C-9, C-19, C-21, C-22, C-27, C-80, C-81, C-115 and C-133	Minor adverse (Not Significant)
Direct effects on heritage assets	Likely to be Low to Medium	Very Low to High	C-4, C-6, C-12, C-13 and C-79	Minor (Not Significant) to Moderate adverse (Potentially Significant)
Effects arising through changes to setting of heritage assets	Very Low to Medium	Low to High	C-1, C-4, C-9, C-11, C-19, C-21, C-22, C-24, C-26, C-27, C-61, C-80, C-81, C-82 and C-157	Negligible (Not Significant) to Moderate adverse (Potentially Significant)
Construction: Zone 2: South Downs				
Effects arising through change to historic landscape character	Low	Low to Medium	C-1, C-4, C-5, C-9, C-19, C-21, C-22, C-27, C-80, C-81, C-115 and C-133	Minor adverse (Not Significant)

Activity and impact	Magnitude of change	Receptor heritage significance (sensitivity)	Embedded environmental measures	Preliminary assessment of residual effect (significance)
Direct effects on heritage assets	Likely to be Low to Medium	Low to High	C-4, C-6, C-12, C-13 and C-79	Minor (Not Significant) to Moderate adverse (Potentially Significant)
Effects arising through changes to setting of heritage assets	Very Low to Medium	High	C-1, C-4, C-9, C-11, C-19, C-21, C-22, C-24, C-26, C-27, C-61, C-80, C-81, C-82 and C-157	Minor (Not Significant) to Moderate adverse (Potentially Significant)
Construction: Zone 3: Low Weald				
Effects arising through change to historic landscape character	Low	Low	C-1, C-4, C-5, C-9, C-19, C-21, C-22, C-27, C-80, C-81, C-115 and C-133	Minor adverse (Not Significant)
Direct effects on heritage assets	Likely to be Low to Medium	Low to Medium	C-4, C-6, C-12, C-13 and C-79	Minor (Not Significant) to Moderate adverse (Potentially Significant)
Effects arising through changes to setting of heritage assets	Very Low to Medium	Low to High	C-1, C-4, C-9, C-11, C-19, C-21, C-22, C-24, C-26, C-27, C-61, C-80, C-81, C-82 and C-157	Negligible (Not Significant) to Major adverse (Significant)

Activity and impact	Magnitude of change	Receptor heritage significance (sensitivity)	Embedded environmental measures	Preliminary assessment of residual effect (significance)
Construction: Bolney Road /Kent Street onshore substation search area				
Effects arising through change to historic landscape character	High	Low	C-6, C-21, C-27, C-68, C-81, C-82, C-133 and C-157	Moderate (Potentially Significant)
Effects arising through change to setting of heritage assets	Very Low to Medium	High	C-6, C-21, C-27, C-68, C-81, C-82, C-133 and C-157	Minor (Not Significant) to Major adverse (Significant)
Construction: Wineham Lane North onshore substation search area				
Effects arising through change to historic landscape character	Low	Low	C-6, C-21, C-27, C-68, C-81, C-82, C-133 and C-157	Minor (Not Significant)
Effects arising through change to setting of heritage assets	Very Low to Low	High	C-6, C-21, C-27, C-68, C-81, C-82, C-133 and C-157	Minor (Not Significant) to Moderate adverse (Potentially Significant)
Construction: Offshore substation and wind turbine generators (WTGs)				

Activity and impact	Magnitude of change	Receptor heritage significance (sensitivity)	Embedded environmental measures	Preliminary assessment of residual effect (significance)
Effects arising through change to setting of heritage assets	Very Low	High	C-36, C-37 and C-82	Minor (Not Significant)
Operation and maintenance: Bolney Road /Kent Street onshore substation search area				
Effects arising through change to historic landscape character	High	Low	C-6, C-21, C-26, C-27, C-68, C-80, C-81 and C-82	Moderate (Not Significant)
Effects arising through change to setting of heritage assets	Very Low to Medium	High	C-6, C-21, C-26, C-27, C-68, C-80, C-81 and C-82	Minor (Not Significant) to Major adverse (Significant)
Operation and maintenance: Wineham Lane North onshore substation search area				
Effects arising through change to historic landscape character	Low	Low	C-6, C-21, C-26, C-27, C-68, C-80, C-81 and C-82	Negligible (Not Significant)
Effects arising through change to setting of	Very Low to Medium	High	C-6, C-21, C-26, C-27, C-68, C-80, C-81 and C-82	Minor (Not Significant) to Major adverse (Significant)

Activity and impact	Magnitude of change	Receptor heritage significance (sensitivity)	Embedded environmental measures	Preliminary assessment of residual effect (significance)
heritage assets (designated)				
Operation and maintenance: Offshore substation and WTGs				
Effects arising through change to setting of heritage assets	Very Low	High	C-36, C-37 and C-82	Minor (Not Significant)
Decommissioning: Onshore substation				
Effects in line with construction phase				
Decommissioning: Offshore substation and wind turbine generators				
Effects in line with construction phase				

Table G-15 Potential water environment residual effects during the construction of the landfill

Receptors	Activity and potential effect	Embedded environmental measures	Value	Magnitude of effect	Significance of effect
Groundwater and Surface WFD Water Bodies (River, Transitional and Coastal) Littlehampton Anticline West GB40701G504900 Ryebank Rife GB10704100662 Arun Lower GB540704105000 Sussex GB640704540003	Potential for accidental contamination entering watercourses or groundwater, associated with spillage or leakage of fuels, lubricants or other chemicals. This includes the potential for leakage of bentonite during HDD.	C-8, C-76, C-135, C-142, C-148, C-149, C-150, C-151, C-167, C-182	Medium – High	Negligible	Negligible – Minor (Not Significant)
Surface WFD Water Bodies (River, Transitional and Coastal) Ryebank Rife GB10704100662 Arun Lower GB540704105000	Ground disturbance and mobilisation of sediments /contaminants leading to silt laden or otherwise contaminated runoff entering watercourses and /or intertidal areas.	C-3, C-7, C-8, C-10, C-11, C-13, C-19, C-25, C-27, C-28, C-30, C-33, C-73, C-75, C-76, C-77, C-120, C- C-122, C-125, C-126, C-127, C-128, C-129, C-130, C-131, C-133, C-135, C-137, C-138, C-139,	Medium	Negligible – Low	Negligible – Minor (Not Significant)

Receptors	Activity and potential effect	Embedded environmental measures	Value	Magnitude of effect	Significance of effect
Sussex GB640704540003		C-140, C-141, C-142, C-143, C-144, C-145, C-148, C-182			
	Changes to watercourse morphology as a result of works in or near watercourses (e.g. installation of landfall cable and associated earthworks).	C-3, C-7, C-8, C-10, C-11, C-13, C-19, C-25, C-27, C-28, C-30, C-33, C-73, C-75, C-76, C-77, C-120, C-122, C-125, C-126, C-127, C-128, C-129, C-130, C-131, C-133, C-135, C-137, C-138, C-139, C-140, C-141, C-142, C-143, C-144, C-145, C-148, C-182	Medium	Negligible	Negligible (Not Significant)
Water Resources Licensed abstractions (A1, A5 and A6)	Reduction of water availability to support existing surface water and groundwater abstractions as a consequence of water quantity and /or quality effects. This could arise from dewatering of the excavations for cabling, ground disturbance for the development of temporary access	C-3, C-7, C-8, C-10, C-11, C-13, C-19, C-25, C-27, C-28, C-30, C-33, C-73, C-74, C-75, C-76, C-77, C-78, C-120, C-121, C-122, C-125, C-126, C-127, C-128,	Medium	Negligible – Low	Negligible – Minor (Not Significant)

Receptors	Activity and potential effect	Embedded environmental measures	Value	Magnitude of effect	Significance of effect
PWSs (P1)	track /temporary construction compound establishment, or the leakage /spillage of fuels and chemicals onsite.	C-129, C-130, C-131, C-133, C-134, C-135, C-137, C-138, C-140, C-141, C-142, C-143, C-144, C-145, C-146, C-147, C-149, C-150, C-151, C-167, C-179, C-181, C-182	Low	Negligible	Negligible (Not Significant)
Consented discharges (D1 and D2)	Physical disruption to existing discharge infrastructure (e.g. septic tank soakaways or discharge outfalls) from trenching and temporary access track /temporary construction compound establishment.	C-28, C-33, C-146, C-151	Low	Negligible	Negligible (Not Significant)
Flood Risk Receptors	Volumetric displacement of flood water associated with the construction of temporary stockpiles and raised access tracks within floodplain areas.	C-11, C-19, C-20, C-21, C-75, C-119, C-120, C-121, C-122, C-123, C-124, C-127, C-128, C-130, C-131, C-132, C-133, C-134, C-175, C-179, C-180, C-181	Low – Medium	Negligible	Negligible (Not Significant)
Residential properties (Atherington, The Mill, Climping and Climping Park)	Changes in runoff rates and new flow pathways associated with ground disturbance and the development of	C-3, C-11, C-13, C-17, C-18, C-19, C-20, C-21, C-27,	Low – Medium	Negligible	Negligible (Not Significant)

Receptors	Activity and potential effect	Embedded environmental measures	Value	Magnitude of effect	Significance of effect
	temporary access tracks and temporary construction compound areas.	C-28, C-33, C-73, C-74, C-75, C-77, C-117, C-119, C-120, C-121, C-122, C-123, C-124, C-125, C-126, C-127, C-128, C-129, C-130, C-131, C-132, C-133, C-134, C-138, C-139, C-140, C-144, C-148, C-175, C-176, C-177, C-178 C-179, C-190, C-181, C-182.			
	Increases in flow in watercourses due to dewatering of excavations.	C-29, C-77, C-118, C-134, C-141	Low – Medium	Negligible	Negligible (Not Significant)

Table G-16 Potential water environment residual effects during the onshore cable laydown

Receptor groups	Activity and potential effect	Embedded environmental measures	Value	Magnitude of effect	Significance of effect
Groundwater WFD Water Bodies	A decline in groundwater levels arising from dewatering of the trenched excavations for cabling or the development of less permeable access track /temporary construction compound establishment reducing infiltration.	C-7, C-19, C-20, C-27, C-29, C-73, C-74, C-77, C-120, C-121, C-129, C-133, C-140, C-141, C-144, C-147	Medium - High	Negligible – Low	Negligible – Minor (Not Significant)
Groundwater and Surface Water WFD Water Bodies (River, Transitional and Coastal)	Potential for accidental contamination entering groundwater or watercourses, associated with spillage or leakage of fuels, lubricants or other chemicals. This includes the potential for leakage of bentonite during HDD.	C-8, C-76, C-135, C-142, C-148, C-149, C-150, C-151, C-167, C-182	Medium – High	Negligible	Negligible – Minor (Not Significant)
Surface Water WFD Water Bodies (River, Transitional and Coastal)	Ground disturbance and mobilisation of sediments /contaminants leading to silt laden or otherwise contaminated runoff entering watercourses.	C-3, C-7, C-8, C-10, C-11, C-13, C-19, C-25, C-27, C-28, C-30, C-33, C-73, C-75, C-76, C-77, C-120, C-122, C-125, C-126, 127, C-128, C-129, C-130, C-131, C-133, C-135, C-137, C-138, C-139, C-140, C-141, C-142, C-143,	Medium	Negligible – Low	Negligible – Minor (Not Significant)

Receptor groups	Activity and potential effect	Embedded environmental measures	Value	Magnitude of effect	Significance of effect
		C-144, C-145, C-148, C-182			
	Changes to watercourse morphology as a result of works in or near watercourses (e.g. installation of watercourse crossings and associated earthworks).	C-3, C-7, C-8, C-10, C-11, C-13, C-19, C-25, C-27, C-28, C-30, C-33, C-73, C-75, C-76, C-77, C-120, C-122, C-125, C-126, C-127, C-128, C-129, C-130, C-131, C-133, C-135, C-137, C-138, C-139, C-140, C-141, C-142, C-143, C-144, C-145, C-148, C-182	Medium	Negligible	Negligible (Not Significant)
Conservation Sites, Ponds and Springs	Reduction of water availability to support existing groundwater or surface water designated or undesignated sites, ecosystems and features. This could arise from dewatering of the trenched excavations for cabling, ground disturbance for the development of temporary access track establishment, or the leakage /spillage of fuels and chemicals onsite.	C-3, C-6, C-7, C-8, C-10, C-11, C-13, C-17, C-18, C-19, C-20, C-21, C-23, C-27, C-28, C-29, C-30, C-33, C-64, C-73, C-74, C-76, C-77, C-120, C-121, C-122, C-124, C-125, C-126, C-127, C-128, C-129, C-130, C-131,	Very Low – Medium	Negligible – Low	Negligible (Not Significant)

Receptor groups	Activity and potential effect	Embedded environmental measures	Value	Magnitude of effect	Significance of effect
		C-133, C-134, C-135, C-137, C-138, C-139, C-140, C-141 C-142, C-143, C-144, C-145, C-146, C-147, C-148, C-149, C-150, C-151, C-167, C-176, C-179, C-181, C-182, C-183			
Water Resources	Reduction of water availability to support existing surface water and groundwater abstractions as a consequence of water quantity and /or quality effects. This could arise from dewatering of the trenched excavations for cabling, ground disturbance for the development of temporary access track /temporary construction compound establishment, or the leakage /spillage of fuels and chemicals onsite.	C-3, C-7, C-8, C-10, C-11, C-13, C-18, C-19, C-20, C-21, C-25, C-27, C-28, C-29, C-30, C-33, C-73, C-74, C-75, C-76, C-77, C-78, C-120, C-121, C-122, C-125, C-126, C-127, C-128, C-129, C-130, C-131, C-133, C-134, C-135, C-137, C-138, C-140, C-141, C-142, C-143, C-144, C-145, C-146, C-147, C-149, C-150, C-151, C-167, C-179, C-181, C-182	High	Negligible	Minor (Not Significant)
Licensed abstractions – Southern Water public water supplies			Low – Medium	Negligible – Low	Negligible – Minor (Not Significant)
Other (non-public) licensed abstractions			Low	Negligible – Low	Negligible (Not Significant)
PWSs and unregistered mapped wells					

Receptor groups	Activity and potential effect	Embedded environmental measures	Value	Magnitude of effect	Significance of effect
Consented discharges	Physical disruption to existing discharge infrastructure (e.g. septic tank soakaways or discharge outfalls) from trenching and temporary access track /temporary construction compound establishment.	C-28, C-33, C-146, C-151	Low	Negligible	Negligible (Not Significant)
Flood Risk Receptors	Changes in watercourse conveyance associated with temporary watercourse crossings.	C-3, C-5, C-17, C-18, C-20, C-118, C-126, C-127, C-128, C-130, C-131, C-132, C-133, C-134, C-139, C-145, C-148, C-176, C-177, C-178, C-182.	Low – High	Negligible	Negligible - Minor (Not Significant)
	Volumetric displacement of flood water associated with the construction of temporary stockpiles and raised access tracks within floodplain areas.	C-11, C-19, C-20, C-21, C-75, C-119, C-120, C-121, C-122, C-123, C-124, C-127, C-128, C-130, C-131, C-132, C-133, C-134, C-175, C-179, C-180, C-181	Low – High	Negligible	Negligible - Minor (Not Significant)
	Changes in runoff rates and new flow pathways associated with ground disturbance and the development of temporary access tracks and	C-3, C-11, C-13, C-17, C-18, C-19, C-20, C-21, C-27, C-28, C-33, C-73, C-74,	Low – High	Negligible	Negligible - Minor (Not Significant)

Receptor groups	Activity and potential effect	Embedded environmental measures	Value	Magnitude of effect	Significance of effect
	temporary construction compound areas.	C-75, C-77, C-117, C-119, C-120, C-121, C-122, C-123, C-124, C-125, C-126, C-127, C-128, C-129, C-130, C-131, C-132, C-133, C-134, C-138, C-139, C-140, C-144, C-148, C-175, C-176, C-177, C-178 C-179, C-190, C-181, C-182.			
	Increases in flow in watercourses due to dewatering of excavations.	C29, C-77, C-118, C-134, C-141	Low – High	Negligible	Negligible - Minor (Not Significant)

Table G-17 Potential water environment residual effects during construction of the onshore substation search areas

Receptor	Activity and potential effect	Embedded environmental measures	Value	Magnitude of effect	Significance of effect
Groundwater WFD Water Body Adur and Ouse Hastings Beds GB40702G502000	A decline in groundwater levels arising from of the trenched excavations for the onshore substation or piling if it is required for the installation of sub-surface foundations.	C-27, C-33, C-73, C-74, C-76, C-77, C-120, C-121, C-129, C-140, C-141, C-144, C-152	High	Negligible	Minor (Not Significant)
Groundwater and Surface Water WFD Water Bodies (River and Transitional) Adur and Ouse Hastings Beds GB40702G502000 Adur East (Sakeham) GB107041012900 Adur (East) GB107041012180 Cowfold Stream GB107041012260 Adur GB540704116000	Potential for accidental contamination entering groundwater or watercourses, associated with spillage or leakage of fuels, lubricants or other chemicals.	C-8, C-33, C-76, C-149, C-150, C-151, C-167, C-182	Medium – High	Negligible	Negligible – Minor (Not Significant)

Receptor	Activity and potential effect	Embedded environmental measures	Value	Magnitude of effect	Significance of effect
Surface Water WFD Water Bodies (River and Transitional) Adur East (Sakeham) GB107041012900 Adur (East) GB107041012180 Cowfold Stream GB107041012260 Adur GB540704116000	<p>Ground disturbance and mobilisation of sediments /contaminants leading to silt laden or otherwise contaminated runoff entering watercourses.</p> <p>Changes to watercourse morphology as a result of works in or near watercourses (e.g. associated with earthworks for establishment of temporary construction compounds).</p>	<p>C-7, C-8, C-11, C-13, C-21, C-25, C-27, C-30, C-33, C-73, C-76, C-77, C-120, C-121, C-130, C-133, C-135, C-140, C-142, C-143, C-148, C-151, C-152, C-167, C-182</p> <p>C-7, 8, 11,13, 21, 25, 27, 30, 33, 73, 76, 77,120, 130, 133, 135, 140, 148, 161 152, 182.</p>	<p>Medium</p> <p>Medium</p>	<p>Negligible – Low</p> <p>Negligible</p>	<p>Negligible – Minor (Not Significant)</p> <p>Negligible (Not Significant)</p>
Water Resources P18 registered PWS surface water abstraction Unregistered mapped wells (Frylands Lane (2), The Hangers, Ewhurst Cottages,	<p>Reduction of water availability to support existing surface water and groundwater abstractions as a consequence of water quantity and /or quality effects. This could arise from dewatering of the excavations or piling for installation of onshore substation foundations, ground disturbance for the development of temporary construction compound establishment,</p>	<p>C-7, C-8, C-11, C-13, C-21, C-25, C-27, C-28, C-30, C-33, C-73, C-74, C-76, C-77, C-78, C-120, C-121, C-130, C-133, C-135, C-140, C-141, C-142, C-143, C-144, C-145, C-146, C-147, C-148, C-150, C-151,</p>	<p>Low</p>	<p>Negligible</p>	<p>Negligible (Not Significant)</p>

Receptor	Activity and potential effect	Embedded environmental measures	Value	Magnitude of effect	Significance of effect
The Rectory, Park Farm, and The Fodges on Kent Street)	or the leakage /spillage of fuels and chemicals onsite.	C-152, C-154, C-167, C-182			
Consented discharges (D7 and 8)	Physical disruption to existing discharge infrastructure (e.g. septic tank soakaways or discharge outfalls) from trenching and temporary access track /temporary construction compound establishment.	C-28, C-33, C-146, C-151	Low	Negligible	Negligible (Not Significant)
Flood Risk Receptors	Volumetric displacement of flood water associated with the construction of temporary stockpiles within floodplain areas.	C-11, C-21, C-27, C-75, C-130, C-131, C-132, C-133, C-136, C-179	Medium	Negligible	Negligible (Not Significant)
Springlands, Wineham	Changes in runoff rates and new flow pathways associated with ground disturbance and the development of temporary construction compound areas and onshore substation search areas.	C-11, C-21, C-27, C-73, C-74, C-75, C-77, C-118, C-120, C-121, C-129, C-130, C-134, C-140, C-141, C-144, C-152, C-175, C-179, C-182	Medium	Negligible	Negligible (Not Significant)

Receptor	Activity and potential effect	Embedded environmental measures	Value	Magnitude of effect	Significance of effect
	Increases in flow in watercourses due to dewatering of excavations.	C29, C-77, C-118, C-134, C-141	Medium	Negligible	Negligible (Not Significant)

Table G-18 Potential water environment residual effects during the operation and maintenance of the landfall and cable circuits

Receptor groups	Activity and potential effect	Embedded environmental measures	Value	Magnitude of effect	Significance of effect
Groundwater and Surface Water WFD Water Bodies (River, Transitional and Coastal)	Potential for accidental contamination entering groundwater or watercourses. This could arise from isolated cable repairs or the leakage /spillage of fuels and chemicals from vehicles onsite.	C-8, C-149, C-150, C-151, C-153, C-182	Medium – High	Negligible	Negligible – Minor (Not Significant)
Surface Water WFD Water Bodies (River and Transitional)	Changes to watercourse morphology due to the permanent presence of erosion protection around cable crossings. Cable crossings may exacerbate downstream or upstream bank and bed erosion and sediment deposition.	C-7, C-9, C-25, C-122, C-151, C-153	Medium	Negligible	Negligible (Not Significant)
Conservation Sites, Ponds and Springs	Reduction of water availability to support existing groundwater or surface water designated or undesignated sites, ecosystems and features as a consequence of quantity /quality effects from isolated repairs, and the leakage /spillage of fuels and chemicals from vehicles onsite or from diversion of sub-surface land drainage flow pathways due to the permanent presence of limited below ground	C-6, C-8, C-9, C-21, C-23, C-25, C-29, C-33, C-74, C-147, C-149, C-150, C-151, C-153, C-167, C-182	Very Low – Medium	Negligible	Negligible (Not Significant)

Receptor groups	Activity and potential effect	Embedded environmental measures	Value	Magnitude of effect	Significance of effect
	concrete-lined joint bays and backfilled material around cable circuits.				
Water Resources	Reduction of water availability to support existing surface water and groundwater abstractions as a consequence of water quality and /or quantity effects. This could arise from isolated repairs, and the leakage /spillage of fuels and chemicals from vehicles onsite; or from diversion of sub-surface land drainage flow pathways due to the permanent presence of limited below ground concrete lined joint bays and backfilled material around cable circuits.	C-8, C-21, C-29, C-33, C-74, C-137, C-147, C-149, C-150, C-151, C-153, C-167, C-182	High	Negligible	Minor (Not Significant)
Licensed abstractions – Southern Water public water supplies					
Other (non-public) licensed abstractions			Low – Medium	Negligible	Negligible (Not Significant)
PWSs and unregistered mapped wells			Low	Negligible	Negligible (Not Significant)
Flood Risk Receptors	Volumetric displacement of flood water associated with maintenance works in floodplains during isolated repairs of the landfall TJB or cable circuits.	C-11, C-19, C-20, C-21, C-75, C-119, C-120, C-121, C-122, C-130, C-132, C-133, C-153, C-154, C-175	Low – High	Negligible	Negligible - Minor (Not Significant)

Receptor groups	Activity and potential effect	Embedded environmental measures	Value	Magnitude of effect	Significance of effect
	Changes in runoff rates and new flow pathways associated with ground disturbance during isolated repairs of landfall TJB or cable circuits.	C-3, C-11, C-13, C-19, C-20, C-21, C-27, C-28, C-30, C-73, C-74, C-75, C-119, C-120, C-121, C-130, C-131, C-133, C-153, C-175, C-182	Low – High	Negligible	Negligible - Minor (Not Significant)

Table G-19 Potential water environment residual effects during the operation and maintenance of the onshore substation

Receptor	Activity and potential effect	Embedded environmental measures	Value	Magnitude of effect	Significance of effect
Groundwater WFD Water Body Adur and Ouse Hastings Beds GB40702G502000	A reduction in groundwater levels arising from the presence of a below ground grid, onshore substation support structures and impermeable surfaces.	C-73, C-74, C-140	High	Negligible	Minor (Not Significant)
Groundwater and Surface Water WFD Water Bodies (River and Transitional) Adur and Ouse Hastings Beds GB40702G502000 Adur East (Sakeham) GB107041012900 Adur (East) GB107041012180 Cowfold Stream GB107041012260 Adur	Potential for accidental contamination entering groundwater or watercourses, associated with spillage or leakage of fuels, lubricants or other chemicals during occasional maintenance visits.	C-8, C-149, C-151, C-153, C-167	Medium – High	Negligible	Negligible – Minor (Not Significant)

Receptor	Activity and potential effect	Embedded environmental measures	Value	Magnitude of effect	Significance of effect
GB540704116000					
Water Resources P18 registered PWS surface water abstraction Unregistered, mapped wells (Frylands Lane (2), The Hangers, Ewhurst Cottages, The Rectory, Park Farm, Fodges on Kent Street)	Reduction of water availability to support existing surface water and groundwater abstractions as a consequence of water quantity and /or quality effects. This could arise from the presence of a below ground grid, onshore substation support structures and impermeable surfaces or spillages from fuels /chemicals during occasional maintenance visits.	C-8, C-73, C-74, C-76, C-140, C-146, C-147, C-151, C-153, C-167	Low	Negligible	Negligible (Not Significant)
Flood Risk Receptors Springlands, Wineham	Changes in runoff rates and new flow pathways associated with the impermeable onshore substation footprint.	C-73, C-74, C-120, C-121, C-124, C-136, C-153	Medium	Negligible	Negligible (Not Significant)

Table G-20 Potential residual effects during decommissioning of the landfall and cable circuits

Receptor groups	Activity and potential effect	Embedded environmental measures	Value	Magnitude of effect	Significance of effect
Groundwater and Surface Water WFD Water Bodies (River, Transitional and Coastal)	Potential for accidental contamination entering groundwater or watercourses. This could arise from isolated decommissioning works and the leakage /spillage of fuels and chemicals from vehicles onsite.	C-8, C-149, C-150, C-151, C-167, C-182	Medium – High	Negligible	Negligible – Minor (Not Significant)
Surface Water WFD Water Bodies (River and Transitional)	Changes to watercourse morphology due to the permanent presence of erosion protection around cable crossings. Cable crossings may exacerbate downstream or upstream bank and bed erosion and sediment deposition.	C-7, C-9, C-25, C-122, C-151	Medium	Negligible	Negligible (Not Significant)
Conservation Sites, Ponds and Springs	Reduction of water availability to support existing groundwater or surface water designated or undesignated sites or ecosystems as a consequence of quantity /quality effects from isolated decommissioning works, and the leakage /spillage of fuels and chemicals from vehicles onsite or from diversion of sub-surface land drainage flow pathways due to the permanent presence of limited	C-6, C-8, C-9, C-21, C-23, C-25, C-29, C-33, C-74, C-147, C-149, C-150, C-151, C-167, C-182	Very Low – Medium	Negligible	Negligible (Not Significant)

Receptor groups	Activity and potential effect	Embedded environmental measures	Value	Magnitude of effect	Significance of effect
	below ground concrete-lined joint bays and backfilled material around cable circuits.				
Water Resources	Reduction of water availability to support existing surface water and groundwater abstractions as a consequence of water quality and /or quantity effects. This could arise from isolated decommissioning works, and the leakage /spillage of fuels and chemicals from vehicles onsite; or from diversion of sub-surface land drainage flow pathways due to the permanent presence of limited below ground concrete-lined joint bays and backfilled material around cable circuits.	C-8, C-21, C-29, C-33, C-74, C-137, C-147, C-149, C-150, C-151, C-167, C-182	High	Negligible	Minor (Not Significant)
Licensed abstractions – Southern Water public water supplies					
Other (non-public) licensed abstractions			Low – Medium	Negligible	Negligible (Not Significant)
PWSs and unregistered mapped wells			Low	Negligible	Negligible (Not Significant)
Consented discharges	Physical disruption to existing discharge infrastructure (e.g. septic tank soakaways or discharge outfalls) from temporary access track /temporary construction compound establishment.	C-28, C-33, C-146, C-151	Low	Negligible	Negligible (Not Significant)

Receptor groups	Activity and potential effect	Embedded environmental measures	Value	Magnitude of effect	Significance of effect
Flood Risk Receptors	Volumetric displacement of flood water associated with maintenance works in floodplains during decommissioning of the landfall TJB or cable circuits.	C-11, C-19, C-20, C-21, C-75, C-119, C-120, C-121, C-122, C-130, C-132, C-133, C-154, C-175	Low – High	Negligible	Negligible - Minor (Not Significant)
	Changes in runoff rates and new flow pathways associated with ground disturbance during decommissioning of the landfall TJB and the cable circuits.	C-3, C-11, C-13, C-19, C-20, C-21, C-27, C-28, C-30, C-73, C-74, C-75, C-119, C-120, C-121, C-130, C-131, C-133, C-175, C-182	Low – High	Negligible	Negligible - Minor (Not Significant)

Table G-21 Potential water environment residual effects during decommissioning of the onshore substation

Receptor	Activity and potential effect	Embedded environmental measures	Value	Magnitude of effect	Significance of effect
Groundwater and Surface Water WFD Water Bodies (River and Transitional) Adur and Ouse Hastings Beds GB40702G502000 Adur East (Sakeham) GB107041012900 Adur (East) GB107041012180 Cowfold Stream GB107041012260 Adur GB540704116000	Potential for accidental contamination entering groundwater or watercourses, associated with spillage or leakage of fuels, lubricants or other chemicals.	C-8, C-27, C-76, C-129, C-149, C-150, C-151, C-167	Medium – High	Negligible	Negligible – Minor (Not Significant)
Surface Water WFD Water Bodies Adur and Ouse Hastings Beds GB40702G502000	Ground disturbance and mobilisation of sediments /contaminants leading to silt laden or otherwise contaminated runoff entering watercourses.	C-7, C-8, C-11, C-13, C-21, C-25, C-27, C-30, C-33, C-73, C-76, C-77, C-120, C-121, C-130, C-133, C-135, C-140, C-142,	Medium	Negligible – Low	Negligible – Minor (Not Significant)

Receptor	Activity and potential effect	Embedded environmental measures	Value	Magnitude of effect	Significance of effect
Adur East (Sakeham) GB107041012900 Adur (East) GB107041012180 Cowfold Stream GB107041012260 Adur GB540704116000	Changes to watercourse morphology as a result of works in or near watercourses (e.g. associated with earthworks for establishment of compounds).	C-143, C-148, C-151, C-152, C-167, C-182	Medium	Negligible	Negligible – Minor (Not Significant)
Water Resources P18 registered PWS surface water abstraction Unregistered, mapped wells (Frylands Lane (2), The Hangers, Ewhurst Cottages, The Rectory, Park Farm, Fodges on Kent Street)	Reduction of water availability to support existing surface water and groundwater abstractions as a consequence of water quantity and /or quality effects. This could arise from disturbance for the development of temporary decommissioning access/temporary construction compound establishment, or the leakage /spillage of fuels and chemicals onsite.	C-7, C-8, C-11, C-13, C-21, C-25, C-27, C-28, C-30, C-33, C-73, C-74, C-76, C-77, C-78, C-120, C-121, C-130, C-133, C-135, C-140, C-141, C-142, C-143, C-144, C-146, C-147, C-148, C-150, C-151, C-152, C-167, C-182	Low	Negligible	Negligible (Not Significant)

Receptor	Activity and potential effect	Embedded environmental measures	Value	Magnitude of effect	Significance of effect
Consented discharges (D7 and 8)	Physical disruption to existing discharge infrastructure (e.g. septic tank soakaways or discharge outfalls) from temporary access track /temporary construction compound establishment.	C-28, C-33, C-146, C-151	Low	Negligible	Negligible (Not Significant)
Flood Risk Receptors	Volumetric displacement of flood water associated with the placement of temporary stockpiles within floodplain areas.	C-11, C-21, C-27, C-75, C-130, C-131, C-132, C-133, C-136, C-179	Medium	Negligible	Negligible (Not Significant)
Springlands, Wineham	Changes in runoff rates and new flow pathways associated with ground disturbance and the development of temporary access track/temporary construction compound areas.	C-11, C-21, C-27, C- C-73, C-74, C-75, C-77, C-120, C-118, C-121, C-129, C-130, C-134, C-140, C-141, C-144, C-152, C-175, C-179, C-182	Medium	Negligible	Negligible (Not Significant)

References

Rampion Extension Development Limited (RED), (2021). Rampion 2 Wind Farm Preliminary Environmental Information Report. (Online) Available at: <https://rampion2.com/formal-consultation-detailed-documents/> (Accessed: 14 September 2022).