

Rampion 2 Wind Farm

Category 6: Environmental Statement

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Executive Summary

This chapter of the Rampion 2 Environmental Statement (ES) provides a summary of the residual effects on the aspects considered within this ES. The tables present a summary of the assessment, relevant environmental measures and residual effects on the aspect receptors as outlined in **Chapter 6: Coastal processes** to **Chapter 30: Inter-related effects**, and **Chapter 32: ES Addendum, Volume 2** of the ES (Document References: 6.2.6 to 6.2.30, and 6.2.32 **[REP5-038]**).

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31. Summary

31.1 Introduction

- 31.1.1 This Chapter presents the summary of residual effects tables taken from relevant assessment **Chapters 6: Coastal processes** to **30: Inter-related effects**, and **Chapter 32: ES Addendum, Volume 2** of the Environmental Statement (ES) (Document References: 6.2.6 to 6.2.30, and 6.2.32 **[REP5-038]**) where environmental effects of the Proposed Development have been assessed.
- 31.1.2 **Chapter 6: Coastal processes** to **Chapter 30: Inter-related effects**, and **Chapter 32: ES Addendum, Volume 2** of the ES (Document References: 6.2.6 to 6.2.30, and 6.2.32 **[REP5-038]**) assess the environmental effects of the construction, operation and maintenance and decommissioning phases of the Proposed Development, following the implementation of embedded environmental measures included in the design of the Proposed Development. **Table 31-1** to **Table 31-44** identify:
- activity and impact;
 - magnitude of change/impact;
 - receptor and sensitivity or value;
 - embedded environmental measures; and
 - assessment of residual effects (significance).
- 31.1.3 Relevant embedded environmental measures are contained within the **Commitments Register** (Document Reference 7.22).
- 31.1.4 The summary of residual effects tables are as follows:
- **Chapter 6: Coastal processes, Volume 2** of the ES (Document Reference: 6.2.6) – **Table 31-1**;
 - **Chapter 7: Other marine users, Volume 2** of the ES (Document Reference: 6.2.7) - **Table 31-2**;
 - **Chapter 8: Fish and shellfish ecology, Volume 2** of the ES (Document Reference: 6.2.8) – **Table 31-3**;
 - **Chapter 9: Benthic, subtidal and intertidal ecology, Volume 2** of the ES (Document Reference: 6.2.9) – **Table 31-4**;
 - **Chapter 10: Commercial fisheries, Volume 2** of the ES (Document Reference: 6.2.10) – **Table 31-5**;
 - **Chapter 11: Marine mammals, Volume 2** of the ES (Document Reference: 6.2.11) – **Table 31-6**;
 - **Chapter 12: Offshore and intertidal ornithology, Volume 2** of the ES (Document Reference: 6.2.12) – **Table 31-7**;

- **Chapter 13: Shipping and navigation, Volume 2** of the ES (Document Reference: 6.2.13) – **Table 31-8**;
- **Chapter 14: Civil and military aviation, Volume 2** of the ES (Document Reference: 6.2.14) – **Table 31-9**;
- **Chapter 15: Seascape, landscape and visual, Volume 2** of the ES (Document Reference: 6.2.15) - **Table 31-10**;
- **Chapter 16: Marine archaeology, Volume 2** of the ES (Document Reference: 6.2.16) – **Table 31-11**;
- **Chapter 17: Socio-economics, Volume 2** of the ES (Document Reference: 6.2.17) – **Table 31-12**;
- **Chapter 18: Landscape and visual impact assessment, Volume 2** of the ES (Document Reference: 6.2.18) – **Table 31-13 - Table 31-19**;
- **Chapter 19: Air quality, Volume 2** of the ES (Document Reference: 6.2.19) – **Table 31-20**;
- **Chapter 20: Soils and agriculture, Volume 2** of the ES (Document Reference: 6.2.20) – **Table 31-21**;
- **Chapter 21: Noise and vibration, Volume 2** of the ES (Document Reference: 6.2.21) – **Table 31-22**;
- **Chapter 22: Terrestrial ecology and nature conservation, Volume 2** of the ES (Document Reference: 6.2.22) – **Table 31-23**;
- **Chapter 23: Transport, Volume 2** of the ES (Document Reference: 6.2.23) – **Table 31-24**;
- **Chapter 24: Ground conditions, Volume 2** of the ES (Document Reference: 6.2.24) – **Table 31-25 - Table 31-26**;
- **Chapter 25: Historic environment, Volume 2** of the ES (Document Reference: 6.2.25) – **Table 31-27 - Table 31-28**;
- **Chapter 26: Water environment, Volume 2** of the ES (Document Reference: 6.2.26) – **Table 31-29 - Table 31-40**;
- **Chapter 27: Major accidents and disasters, Volume 2** of the ES (Document Reference: 6.2.27) – **Table 31-41**;
- **Chapter 28: Population and human health, Volume 2** of the ES (Document Reference: 6.2.28) – **Table 31-42**;
- **Chapter 29: Climate change resilience, Volume 2** of the ES (Document Reference: 6.2.29) – **paragraph 31.1.5**;
- **Chapter 30: Inter-related effect, Volume 2** of the ES (Document Reference: 6.2.30) – **Table 31-43**; and
- **Chapter 32: ES Addendum, Volume 2** of the ES (Document Reference: 6.2.32) **[REP5-038]** – **Table 31-44**.

Table 31-1 Summary of assessment of residual effects for coastal processes

Activity and impact	Magnitude of impact	Receptor and sensitivity or value	Embedded environmental measures	Assessment of residual effect (significance)
Construction				
Increases in SSC and deposition of disturbed sediments to the seabed due to drilling for foundation installation				Potential pathway of effect for other aspects
Increases in SSC and deposition of disturbed sediments to the seabed due to dredging for seabed preparation prior to installing jacket foundations				Potential pathway of effect for other aspects
Increases in SSC and deposition of disturbed sediments to the seabed due to cable installation				Potential pathway of effect for other aspects
Increases in SSC and deposition of sediment to the				Potential pathway of effect for other aspects

Activity and impact	Magnitude of impact	Receptor and sensitivity or value	Embedded environmental measures	Assessment of residual effect (significance)
seabed due to HDD drilling fluid release				
Changes to landfall morphology due to installation of export cable at the landfall	Low	Local coastline morphology - Medium Designated sites - Medium	C-41, C-42, C-43, C44, C45	Minor adverse (Not Significant)
Changes to the tidal, wave, sediment transport regimes and seabed scour as a result of the presence of less than all windfarm infrastructure	Very low	Designated sites – Medium	C-38, C-39, C-40, C-41, C-42, C-43, C44, C45	Minor adverse (Not Significant)
		Regional coastline morphology - Medium		Minor adverse (Not Significant)
		Recreational surfing venues - Medium		Minor adverse (Not Significant)
		Offshore sandbanks - Low		Negligible (Not Significant)
Operation and maintenance				

Activity and impact	Magnitude of impact	Receptor and sensitivity or value	Embedded environmental measures	Assessment of residual effect (significance)
Changes to the tidal regime due to presence of windfarm infrastructure		Potential pathway of effect for other aspects		
Changes to the wave regime (presence of wind farm infrastructure)	Low	Hooe Bank and southern Outer Owers - Low	C-38, C-39, C-40, C-41, C-42, C-43, C44, C45	Minor adverse (Not Significant)
	Very Low	East Bank and northern Outer Owers Bank - Low		Negligible (Not Significant)
	Very Low	Surfing Venues - Medium		Minor adverse (Not Significant)
Changes to the sediment transport regime due to presence of wind farm infrastructure	Very low	Designated sites - Medium	C-38, C-39, C-40, C-41, C-42, C-43, C44, C45	Minor adverse (Not Significant)
	Very low	Regional coastline morphology - Medium		Minor adverse (Not Significant)
	Very low	Recreational surfing venues - Medium		Minor adverse (Not Significant)

Activity and impact	Magnitude of impact	Receptor and sensitivity or value	Embedded environmental measures	Assessment of residual effect (significance)
	Very low	East Bank and northern Outer Owers Bank - Low		Negligible (Not Significant)
	Low	Hooe Bank and southern Outer Owers - Low		Minor adverse (Not Significant)
Seabed scour due to the presence of windfarm infrastructure		Potential pathway of effect for other aspects		
Decommissioning				
Changes to SSC, bed levels and sediment type due to removal of foundations		Potential pathway of effect for other aspects		
Changes to landfall morphology due to removal of export cable at the landfall	Low	Local coastline morphology - Medium	C-42, C-43, C44, C45	Minor adverse (Not Significant)
	Low	Nationally designated sites - Medium	C-42, C-43, C44, C45	Minor adverse (Not Significant)

Activity and impact	Magnitude of impact	Receptor and sensitivity or value	Embedded environmental measures	Assessment of residual effect (significance)
Changes to the tidal, wave, sediment transport regimes and seabed scour due to removal/presence of less than all windfarm infrastructure	Very low	Designated sites - Medium	C-38, C-39, C-40, C-41, C-42, C-43, C44, C45	Minor adverse (Not Significant)
		Regional coastline morphology - Medium		Minor adverse (Not Significant)
		Recreational surfing venues - Medium		Minor adverse (Not Significant)
		Offshore sandbanks - Low		Negligible (Not Significant)

Table 31-2 Summary of assessment of residual effects for other marine users

Activity and impact	Magnitude of impact	Receptor and sensitivity or value	Embedded environmental measures	Assessment of residual effect (significance)
Construction				
Increased vessel movements on aggregates	Low	Medium	C-46, C-51, C-56, C-85, C-267	Minor (Not Significant)
Increased vessel movements on disposal sites	Low	Medium	C-46, C-51, C-56, C-85	Minor (Not Significant)
Increased vessel movements on offshore wind	Low	Low	C-46, C-51, C-56, C-85	Minor (Not Significant)
Increased vessel movements on military activity and munitions	Low	Medium	C-46, C-51, C-56, C-85	Minor (Not Significant)
Increased vessel movements on subsea cables and pipelines	Low (AQUIND and IFA2); Negligible all others	Low	C-46, C-51, C-56, C-85	Minor (Not Significant)
Increased vessel movements on recreational boating and sailing	Low	Medium	C-46, C-51, C-56, C-85	Minor (Not Significant)

Activity and impact	Magnitude of impact	Receptor and sensitivity or value	Embedded environmental measures	Assessment of residual effect (significance)
Increased vessel movements on diving and water sports (including surfing)	Diving Low; All others Negligible	Diving Low; All others Negligible	C-46, C-51, C-56, C-85	Minor (Not Significant)
Increased vessel movements on recreational fishing	Boat Low; Shore Negligible	Boat Low; Shore Negligible	C-46, C-51, C-56, C-85	Minor (Not Significant)
Displacement from the use of safety zones (500m) on aggregates	Low	Medium	C-46, C-56, C-267	Minor (Not Significant)
Displacement from the use of safety zones (500m) on disposal sites	Low (AQUIND and Rampion 1); Negligible all others	Medium	C-46, C-56	Minor (Not Significant)
Displacement from the use of safety zones on offshore wind	Low	Low	C-46, C-56	Minor (Not Significant)
Displacement from the use of safety zones (500m) on military activity and munitions	Low	Low	C-46, C-56	Minor (Not Significant)

Activity and impact	Magnitude of impact	Receptor and sensitivity or value	Embedded environmental measures	Assessment of residual effect (significance)
Displacement from the use of safety zones (500m) on subsea cables and pipelines	Low (AQUIND and IFA2); Negligible all others	Low	C-46, C-50, C-56	Minor (Not Significant)
Displacement from the use of safety zones (500m) on recreational boating and sailing	Low	Medium	C-46, C-56	Minor (Not Significant)
Displacement from the use of safety zones (500m) on diving and water sports (including surfing)	Diving Low; All others Negligible	Diving Low; All others Negligible	C-46, C-56	Minor (Not Significant)
Displacement from the use of safety zones (500m) on recreational fishing	Boat Low; Shore Negligible	Boat Low; Shore Negligible	C-46, C-51, C-56	Minor (Not Significant)
Temporary increases in SSC and associated deposition on aggregates	Low	Low	None	Minor (Not Significant)
Temporary increases in SSC and associated	Low	Medium	None	Minor (Not Significant)

Activity and impact	Magnitude of impact	Receptor and sensitivity or value	Embedded environmental measures	Assessment of residual effect (significance)
deposition on disposal sites				
Temporary increases in SSC and associated deposition on recreational boating and sailing	Low	Medium	None	Minor (Not Significant)
Temporary increases in SSC and associated deposition on diving and water sports (including surfing)	Low	Low	None	Minor (Not Significant)
Temporary increases in SSC and associated deposition on recreational fishing	Low	Medium-Low	None	Minor (Not Significant)
Temporary increases in subsea noise on diving and water sports	Diving Low; All others Negligible	Diving Medium; All others Low	C-46, C-52, C-56, C-99, C-100, C-101, C-265	Minor (Not Significant)

Activity and impact	Magnitude of impact	Receptor and sensitivity or value	Embedded environmental measures	Assessment of residual effect (significance)
Temporary increases in subsea noise on recreational fishing	Low	Low to Medium	C-46, C-56, C-99, C-100, C-101, C-265	Minor (Not Significant)
Operation and maintenance				
Increased vessel movements on aggregates	Low	Medium	C-46, C-51	Minor (Not Significant)
Increased vessel movements on disposal sites	Low	Medium	C-46, C-51	Minor (Not Significant)
Increased vessel movements on offshore wind	Low	Low	C-46, C-51	Minor (Not Significant)
Increased vessel movements on military activity and munitions	Low	Medium	C-46, C-51	Minor (Not Significant)
Increased vessel movements on subsea cables and pipelines	Low (AQUIND and IFA2); Negligible all others	Low	C-46, C-51	Minor (Not Significant)

Activity and impact	Magnitude of impact	Receptor and sensitivity or value	Embedded environmental measures	Assessment of residual effect (significance)
Increased vessel movements on recreational boating and sailing	Low	Medium	C-46, C-51	Minor (Not Significant)
Increased vessel movements on diving and water sports (including surfing)	Diving Low; All others Negligible	Diving Low; All others Negligible	C-46, C-51	Minor (Not Significant)
Increased vessel movements on recreational fishing	Boat Low; Shore Negligible	Boat Low; Shore Negligible	C-46, C-51	Minor (Not Significant)
Physical presence of infrastructure on aggregates	Low	Medium	C-46, C-56, C-85, C-267, C-284, C-288	Minor (Not Significant)
Physical presence of infrastructure on disposal sites	Negligible	Medium	C-46, C-56, C-85, C-288	Minor (Not Significant)
Physical presence of infrastructure on offshore wind	Negligible	Medium	C-46, C-56, C-85, C-288	Minor (Not Significant)

Activity and impact	Magnitude of impact	Receptor and sensitivity or value	Embedded environmental measures	Assessment of residual effect (significance)
Physical presence of infrastructure on military activity and munitions	Negligible	Negligible	C-46, C-56, C-85, C-288	Minor (Not Significant)
Physical presence of infrastructure on subsea cables and pipelines	Negligible	Medium	C-46, C-56, C-85, C-288	Minor (Not Significant)
Physical presence of infrastructure on recreational boating and sailing	Negligible	Low	C-46, C-56, C-85, C-288	Minor (Not Significant)
Physical presence of infrastructure on diving and water sports	Negligible	Diving Negligible; Surfing/Kite Surfing Medium	C-46, C-56, C-85, C-288	Minor (Not Significant)
Physical presence of infrastructure on recreational fishing	Negligible to Medium	Low	C-46, C-56, C-85, C-288	Minor (Not Significant)

Table 31-3 Summary of assessment of residual effects for fish and shellfish ecology

Activity and impact	Magnitude of impact	Receptor and sensitivity or value	Embedded environmental measures	Assessment of residual effect (significance)
Construction				
Mortality, injury, behavioural changes and auditory masking arising from noise and vibration	Black seabream: Moderate (TTS and behavioural only) Seahorse (breeding): Moderate (behavioural only) All other receptors: Negligible to Minor	Sandeel: medium Herring: high Black seabream: medium Sea bass: medium Seahorse: high Cuttlefish: medium Eggs and larvae: medium All other receptors: medium Shellfish: medium	C-52, C-265, C-274, C-280, C-281. See Draft Piling Marine Mammal Protocol (Document Reference 7.14)	All receptors: Minor adverse
Impacts arising from UXO Clearance	All fish and shellfish species: Minor	All fish and shellfish species: medium	C-102, C-273, C-275. See Draft UXO Clearance Marine Mammal Protocol (Document Reference 7.15)	All receptors: Minor adverse

Activity and impact	Magnitude of impact	Receptor and sensitivity or value	Embedded environmental measures	Assessment of residual effect (significance)
Impacts of underwater noise from seabed preparation, rock dumping and cable installation	All fish and shellfish species: Negligible	Herring: high Seahorse: high All other fish and shellfish species: medium	N/A	All receptors: Minor adverse
Direct disturbance resulting from the installation of the export cable	Black seabream: Moderate All other receptors: Negligible- Minor	Sandeel: medium Herring: high Black seabream: high Seahorse: medium Cuttlefish: low Shellfish: low to medium Elasmobranchs: low	C-44, C-45, C-65, C-269, C-270, C-271, C-272 C-273	All receptors: Minor adverse
Direct disturbance resulting from construction within the array	All receptors: Negligible- Minor	Sandeel: medium Herring: high Black seabream: high Seahorse: medium Cuttlefish: low Shellfish: low to medium Elasmobranchs: low	C-41, C-44, C-45	All receptors: Minor adverse

Activity and impact	Magnitude of impact	Receptor and sensitivity or value	Embedded environmental measures	Assessment of residual effect (significance)
Temporary localised increases in SSC and smothering	Black seabream: Moderate Sandeel and seahorse: Minor All other receptors: Negligible	Sandeel: low Herring: low Black seabream: high Seahorse: low Shellfish: negligible to medium Migratory species: low Other fish receptors: low	C-272, C-273,	All receptors: Negligible to Minor adverse
Direct and indirect seabed disturbances leading to the release of sediment contaminants	Negligible	Medium	C-53	All receptors: Minor adverse
Operation and maintenance				
Long-term loss of habitat and increased hard substrate and structural complexity due to the presence of turbine foundations, scour protection and cable protection	<i>Long-term habitat loss</i>			
	Black seabream: Moderate All other receptors: Negligible to Minor	Sandeel: medium Herring: high Black seabream: high Seahorse: medium Cuttlefish: low Shellfish: low to medium	C-44, C-95	All receptors: Negligible to Minor adverse

Activity and impact	Magnitude of impact	Receptor and sensitivity or value	Embedded environmental measures	Assessment of residual effect (significance)
		Elasmobranchs: low		
	<i>Increase hard substrate</i>			
	Black seabream: Moderate All other receptors: Negligible to Minor	Sandeel: medium Herring: high Black seabream: high Seahorse: medium Cuttlefish: low Shellfish: low Elasmobranchs: low	C-41, C-44, C-45, C-95, C-96	All receptors: Minor adverse
EMF impacts arising from cables	Minor	Low	C-41, C-45, C-96	All receptors: Minor adverse
Direct disturbance resulting from maintenance within the array area and export cable	Black seabream: Moderate Herring: Negligible All other receptors: Minor	Sandeel: medium Herring: high Black seabream: high Seahorse: medium Cuttlefish: low Shellfish: low to medium Elasmobranchs: low	N/A	All receptors: Minor adverse

Decommissioning

Activity and impact	Magnitude of impact	Receptor and sensitivity or value	Embedded environmental measures	Assessment of residual effect (significance)
Mortality, injury, behavioural changes and auditory masking arising from noise and vibration	Negligible	Sandeel: medium Herring: high Black seabream: medium Sea bass: medium Seahorse: high Eggs and larvae: medium All other receptors: medium Shellfish: medium	C-111	All receptors: Minor adverse
Direct disturbance resulting from the removal of the export cable	Negligible	Sandeel: medium Herring: high Black seabream: high Seahorse: medium Cuttlefish: low Shellfish: low to medium Elasmobranchs: low	C-44, C-111, C-273, C-300	All receptors: Minor adverse
Direct disturbance resulting from decommissioning within the array	Negligible	Sandeel: medium Herring: high Black seabream: high	C-44, C-111, C-300	All receptors: Minor adverse

Activity and impact	Magnitude of impact	Receptor and sensitivity or value	Embedded environmental measures	Assessment of residual effect (significance)
		Seahorse: medium Cuttlefish: low Shellfish: low to medium Elasmobranchs: low		
Temporary localised increases in SSC and smothering	Negligible	Sandeel: low Herring: low Black seabream: high Seahorse: low Shellfish: negligible to medium Elasmobranchs: low	C-111, C-273	All receptors: Negligible to Minor adverse
Direct and indirect seabed disturbances leading to the release of sediment contaminants	Negligible	Medium	C-53, C-111	All receptors: Minor adverse

Table 31-4 Summary of assessment of residual effects for benthic subtidal and intertidal ecology

Activity and impact	Magnitude of impact	Receptor and sensitivity or value	Embedded environmental measures & mitigation	Overall assessment of residual effect (significance)
Construction				
Habitat disturbance in the Rampion 2 array area and offshore cable corridor from construction activities	Subtidal receptors: Minor Intertidal receptors: Negligible	A5.131: Not sensitive A5.141, A5.142, A5.231, A5.231, A5.431, A5.422, A4.134, A4.214, A4.231: Medium Piddocks/ Chalk (A4.231): High	C-38, C-40, C-42, C-269, C-270, C-272, C-283, C-288, C-297, C-300, C-305	Minor adverse
Temporary increase in suspended sediment and sediment deposition in the Rampion 2 array area and offshore cable corridor	All receptors: Minor	A5.131, A5.444, A4.139: Not sensitive* A5.141, A5.142, A5.231, A5.233, A5.431, A5.422, A4.131, A4.214: Low* A5.261, A5.611, A4.134, A4.221, A3.215: Medium*	C-38, C-40, C-42, C-279	Minor adverse

Activity and impact	Magnitude of impact	Receptor and sensitivity or value	Embedded environmental measures & mitigation	Overall assessment of residual effect (significance)
Temporary increase in SSC and sediment deposition in the intertidal area	Negligible	Features of Kingmere MCZ: Medium* <i>*Assessment based on heavy smothering</i> A1.45: Low A2.111, A2.245: Not sensitive Medium* <i>*Assessment based on light smothering</i>	C-43	Minor adverse
Direct and indirect seabed disturbances leading to the release of sediment contaminants	Negligible	High	N/A	Minor adverse
Impact of gravel bags to ground cable installations vessels	Minor	A5.431: Low A3.215, A4.231, A5.444: Medium	C-269, C-270, C-272, C-283, C-288, C-297	Minor adverse
Increased risk of introduction or spread of Marine INNS may affect benthic ecology and biodiversity	Negligible	High	C-95	Minor adverse

Activity and impact	Magnitude of impact	Receptor and sensitivity or value	Embedded environmental measures & mitigation	Overall assessment of residual effect (significance)
Indirect disturbance arising from the accidental release of pollutants	Negligible	High	C-53, C-288	Minor adverse
Indirect disturbance from increased noise and vibration from construction activities	Negligible	Medium	N/A	Minor adverse (not significant in EIA terms)
Operation and maintenance				
Long-term habitat loss/alteration from the presence of foundations, scour protection and cable protection	Negligible	High	N/A	Minor adverse
Temporary habitat disturbance from jackup vessels and cable maintenance works	Minor	A5.131: Not sensitive A5.141, A5.142, A5.231, A5.231, A5.431, A5.422, A4.134, A4.214: Medium Piddocks/ Chalk (A4.231): High	C-269, C-270	Minor adverse
Changes to seabed habitats arising from effects on physical processes, including scour	Negligible	A5.131: Not sensitive	N/A	Minor adverse

Activity and impact	Magnitude of impact	Receptor and sensitivity or value	Embedded environmental measures & mitigation	Overall assessment of residual effect (significance)
effects and changes in the sediment transport and wave regimes resulting in potential effects on benthic communities		A5.141, A5.142, A5.231, A5.231, A5.431, A5.422, A4.134, A4.214: Medium Piddocks/ Chalk (A4.231): High		
Colonisation of the WTGs and scour/cable protection may affect benthic ecology and biodiversity	Minor	Medium	N/A	Minor adverse
Increased risk of introduction or spread of Marine INNS due to presence of infrastructure and vessel movements (for example the discharge of ballast water) may affect benthic ecology and biodiversity	Minor	High	C-95	Minor adverse
Indirect disturbance arising from the accidental release of pollutants	Negligible	High	C-53, C-288	Minor adverse
Indirect disturbance arising from EMF generated by the current flowing through the cables	Negligible	Low	C-41, C-43 and C,45	Negligible

Activity and impact	Magnitude of impact	Receptor and sensitivity or value	Embedded environmental measures & mitigation	Overall assessment of residual effect (significance)
buried to less than 1.5m below the surface				
Decommissioning				
Temporary habitat disturbance from decommissioning of foundations, cables and rock protection	Subtidal receptors: Minor Intertidal receptors: Negligible	A5.131: Not sensitive A5.141, A5.142, A5.231, A5.231, A5.431, A5.422, A4.134, A4.214, A4.231: Medium Piddocks/ Chalk (A4.231): High	C-269, C-270, C-272, C-289, C-300	Minor adverse
Temporary increase in suspended sediment and sediment deposition from decommissioning of foundations, cables and rock protection	All receptors: Minor	A5.131, A5.444, A4.139: Not sensitive* A5.141, A5.142, A5.231, A5.233, A5.431, A5.422, A4.131, A4.214: Low* A5.261, A5.611, A4.134, A4.221, A3.215: Medium*	N/A	Minor adverse

Activity and impact	Magnitude of impact	Receptor and sensitivity or value	Embedded environmental measures & mitigation	Overall assessment of residual effect (significance)
		Features of Kingmere MCZ: Medium* <i>*Assessment based on heavy smothering</i>		
Direct and indirect seabed disturbances leading to the release of sediment contaminants	Negligible	High	N/A	Minor adverse
Increased risk of introduction or spread of Marine INNS may affect benthic ecology and biodiversity	Negligible	High	C-95	Minor adverse
Indirect disturbance arising from the accidental release of pollutants	Negligible	High	C-53, C-288	Minor adverse

Table 31-5 Summary of assessment of residual effects for commercial fisheries

Activity and impact	Magnitude of impact	Receptor and sensitivity or value	Embedded environmental measures	Assessment of residual effect (significance)
Construction				
Rampion 2 array area construction activities and physical presence of constructed wind farm infrastructure leading to reduction in access to, or exclusion from established fishing grounds	Potting fleet: Minor	Potting fleet: Medium	C-45 C-46 C-47 C-90 C-194 C-276	Potting fleet: Minor adverse (Not Significant)
	Dredging fleet: Minor	Dredging fleet: Low		Dredging fleet: Minor adverse (Not Significant)
	Netting fleet: Minor	Netting fleet: Low		Netting fleet: Minor adverse (Not Significant)
	UK beam trawl fleet: Minor	UK beam trawl fleet: Low		UK beam trawl fleet: Minor adverse (Not Significant)
	Belgian beam trawl fleet: Moderate	Belgian beam trawl fleet: Low		Belgian beam trawl fleet: Minor adverse (Not Significant)
	Demersal otter trawl fleet: Minor	Demersal otter trawl fleet: Low		Demersal otter trawl fleet: Minor adverse (Not Significant)

Activity and impact	Magnitude of impact	Receptor and sensitivity or value	Embedded environmental measures	Assessment of residual effect (significance)
	Pelagic trawl fleet: Negligible	Pelagic trawl fleet: Low		Pelagic trawl fleet: Negligible (Not Significant)
Rampion 2 offshore export cable construction activities and physical presence of constructed wind farm infrastructure leading to reduction in access to, or exclusion from established fishing grounds	Potting fleet: Minor	Potting fleet: Medium	C-45 C-46 C-47 C-90 C-194	Potting fleet: Minor adverse (Not Significant)
	Dredging fleet: Minor	Dredging fleet: Low		Dredging fleet: Minor adverse (Not Significant)
	Netting fleet: Minor	Netting fleet: Medium		Netting fleet: Minor adverse (Not Significant)
	UK beam trawl fleet: Minor	UK beam trawl fleet: Low		UK beam trawl fleet: Minor adverse (Not Significant)
	Belgian beam trawl fleet: Negligible	Belgian beam trawl fleet: Low		Belgian beam trawl fleet: Negligible (Not Significant)
	Demersal otter trawl fleet: Minor	Demersal otter trawl fleet: Low		Demersal otter trawl fleet: Minor adverse (Not Significant)

Activity and impact	Magnitude of impact	Receptor and sensitivity or value	Embedded environmental measures	Assessment of residual effect (significance)
	Pelagic trawl fleet: Negligible	Pelagic trawl fleet: Low		Pelagic trawl fleet: Negligible (Not Significant)
Displacement from Rampion 2 array area leading to gear conflict and increased fishing pressure on adjacent grounds	Potting fleet: Minor	Potting fleet: Medium	C-45 C-46 C-47 C-90 C-194	Potting fleet: Minor adverse (Not Significant)
	Dredging fleet: Minor	Dredging fleet: Low		Dredging fleet: Minor adverse (Not Significant)
	Netting fleet: Minor	Netting fleet: Low		Netting fleet: Minor adverse (Not Significant)
	UK beam trawl fleet: Minor	UK beam trawl fleet: Low		UK beam trawl fleet: Minor adverse (Not Significant)
	Belgian beam trawl fleet: Minor	Belgian beam trawl fleet: Low		Belgian beam trawl fleet: Minor adverse (Not Significant)
	Demersal otter trawl fleet: Minor	Demersal otter trawl fleet: Low		Demersal otter trawl fleet: Minor adverse (Not Significant)

Activity and impact	Magnitude of impact	Receptor and sensitivity or value	Embedded environmental measures	Assessment of residual effect (significance)
	Pelagic trawl fleet: Negligible	Pelagic trawl fleet: Low		Pelagic trawl fleet: Negligible (Not Significant)
Displacement from Rampion 2 offshore cable corridor leading to gear conflict and increased fishing pressure on adjacent grounds	Potting fleet: Minor	Potting fleet: Medium	C-45 C-46 C-47 C-90 C-194	Potting fleet: Minor adverse (Not Significant)
	Dredging fleet: Minor	Dredging fleet: Low		Dredging fleet: Minor adverse (Not Significant)
	Netting fleet: Minor	Netting fleet: Medium		Netting fleet: Minor adverse (Not Significant)
	UK beam trawl fleet: Minor	UK beam trawl fleet: Low		UK beam trawl fleet: Minor adverse (Not Significant)
	Belgian beam trawl fleet: Minor	Belgian beam trawl fleet: Low		Belgian beam trawl fleet: Minor adverse (Not Significant)
	Demersal otter trawl fleet: Minor	Demersal otter trawl fleet: Low		Demersal otter trawl fleet: Minor adverse (Not Significant)

Activity and impact	Magnitude of impact	Receptor and sensitivity or value	Embedded environmental measures	Assessment of residual effect (significance)
	Pelagic trawl fleet: Negligible	Pelagic trawl fleet: Low		Pelagic trawl fleet: Negligible (Not Significant)
Rampion 2 array area and offshore cable corridor construction activities leading to disturbance of commercially important fish and shellfish resources leading to displacement or disruption of fishing activity	Potting fleet: Minor	Potting fleet: Medium	See measures set out in Chapter 8: Fish and shellfish ecology, Volume 2 of the ES (Document Reference: 6.2.8)	Potting fleet: Minor adverse (Not Significant)
	Dredging fleet: Minor	Dredging fleet: Medium		Dredging fleet: Minor adverse (Not Significant)
	Netting fleet: Minor	Netting fleet: Low		Netting fleet: Minor adverse (Not Significant)
	UK beam trawl fleet: Minor	UK beam trawl fleet: Low		UK beam trawl fleet: Minor adverse (Not Significant)
	Belgian beam trawl fleet: Minor	Belgian beam trawl fleet: Low		Belgian beam trawl fleet: Minor adverse (Not Significant)
	Demersal otter trawl fleet: Minor	Demersal otter trawl fleet: Low		Demersal otter trawl fleet: Minor adverse (Not Significant)

Activity and impact	Magnitude of impact	Receptor and sensitivity or value	Embedded environmental measures	Assessment of residual effect (significance)
	Pelagic trawl fleet: Minor	Pelagic trawl fleet: Low		Pelagic trawl fleet: Minor adverse (Not Significant)
Increased vessel traffic associated with Rampion 2 within fishing grounds leading to interference with fishing activity	Potting fleet: Minor	Potting fleet: Medium	C-45 C-46 C-47 C-56 C-90 – C-93 C-194	Potting fleet: Minor adverse (Not Significant)
	Dredging fleet: Minor	Dredging fleet: Low		Dredging fleet: Minor adverse (Not Significant)
	Netting fleet: Minor	Netting fleet: Medium		Netting fleet: Minor adverse (Not Significant)
	UK beam trawl fleet: Minor	UK beam trawl fleet: Low		UK beam trawl fleet: Minor adverse (Not Significant)
	Belgian beam trawl fleet: Minor	Belgian beam trawl fleet: Low		Belgian beam trawl fleet: Minor adverse (Not Significant)
	Demersal otter trawl fleet: Minor	Demersal otter trawl fleet: Low		Demersal otter trawl fleet: Minor adverse (Not Significant)
	Pelagic trawl fleet: Minor	Pelagic trawl fleet: Low		Pelagic trawl fleet: Minor adverse (Not Significant)

Activity and impact	Magnitude of impact	Receptor and sensitivity or value	Embedded environmental measures	Assessment of residual effect (significance)
Additional steaming to alternative fishing grounds for vessels that would otherwise fish within the Rampion 2 area	Potting fleet: Minor	Potting fleet: Medium	C-45 C-46 C-47 C-56 C-90 – C-93 C-194 C-304	Potting fleet: Minor adverse (Not Significant)
	Dredging fleet: Minor	Dredging fleet: Medium		Dredging fleet: Minor adverse (Not Significant)
	Netting fleet: Minor	Netting fleet: Medium		Netting fleet: Minor adverse (Not Significant)
	UK beam trawl fleet: Minor	UK beam trawl fleet: Medium		UK beam trawl fleet: Minor adverse (Not Significant)
	Belgian beam trawl fleet: Minor	Belgian beam trawl fleet: Low		Belgian beam trawl fleet: Minor adverse (Not Significant)
	Demersal otter trawl fleet: Minor	Demersal otter trawl fleet: Medium		Demersal otter trawl fleet: Minor adverse (Not Significant)
	Pelagic trawl fleet: Minor	Pelagic trawl fleet: Low		Pelagic trawl fleet: Minor adverse (Not Significant)
Operation and maintenance				

Activity and impact	Magnitude of impact	Receptor and sensitivity or value	Embedded environmental measures	Assessment of residual effect (significance)
Physical presence of Rampion 2 array area infrastructure leading to reduction in access to, or exclusion from established fishing grounds	Potting fleet: Minor	Potting fleet: Medium	C-45 C-46 C-47 C-90 C-194 C-276	Potting fleet: Minor adverse (Not Significant)
	Dredging fleet: Minor	Dredging fleet: Low		Dredging fleet: Minor adverse (Not Significant)
	Netting fleet: Minor	Netting fleet: Low		Netting fleet: Minor adverse (Not Significant)
	UK beam trawl fleet: Minor	UK beam trawl fleet: Low		UK beam trawl fleet: Minor adverse (Not Significant)
	Belgian beam trawl fleet: Moderate	Belgian beam trawl fleet: Low		Belgian beam trawl fleet: Minor adverse (Not Significant)
	Demersal otter trawl fleet: Minor	Demersal otter trawl fleet: Low		Demersal otter trawl fleet: Minor adverse (Not Significant)
	Pelagic trawl fleet: Negligible	Pelagic trawl fleet: Low		Pelagic trawl fleet: Negligible (Not Significant)

Activity and impact	Magnitude of impact	Receptor and sensitivity or value	Embedded environmental measures	Assessment of residual effect (significance)
Physical presence of offshore export cable and infrastructure within the Rampion 2 offshore cable corridor leading to reduction in access to, or exclusion from established fishing grounds	Potting fleet: Minor	Potting fleet: Medium	C-45 C-46 C-47 C-90 C-194	Potting fleet: Minor adverse (Not Significant)
	Dredging fleet: Minor	Dredging fleet: Low		Dredging fleet: Minor adverse (Not Significant)
	Netting fleet: Minor	Netting fleet: Medium		Netting fleet: Minor adverse (Not Significant)
	UK beam trawl fleet: Minor	UK beam trawl fleet: Low		UK beam trawl fleet: Minor adverse (Not Significant)
	Belgian beam trawl fleet: Minor	Belgian beam trawl fleet: Low		Belgian beam trawl fleet: Minor adverse (Not Significant)
	Demersal otter trawl fleet: Minor	Demersal otter trawl fleet: Low		Demersal otter trawl fleet: Minor adverse (Not Significant)
	Pelagic trawl fleet: Negligible	Pelagic trawl fleet: Low		Pelagic trawl fleet: Negligible (Not Significant)

Activity and impact	Magnitude of impact	Receptor and sensitivity or value	Embedded environmental measures	Assessment of residual effect (significance)
Displacement from Rampion 2 array area and offshore cable corridor leading to gear conflict and increased fishing pressure on adjacent grounds	Potting fleet: Minor	Potting fleet: Medium	C-45 C-46 C-47 C-90 C-194	Potting fleet: Minor adverse (Not Significant)
	Dredging fleet: Minor	Dredging fleet: Low		Dredging fleet: Minor adverse (Not Significant)
	Netting fleet: Minor	Netting fleet: Medium		Netting fleet: Minor adverse (Not Significant)
	UK beam trawl fleet: Minor	UK beam trawl fleet: Low		UK beam trawl fleet: Minor adverse (Not Significant)
	Belgian beam trawl fleet: Minor	Belgian beam trawl fleet: Low		Belgian beam trawl fleet: Minor adverse (Not Significant)
	Demersal otter trawl fleet: Minor	Demersal otter trawl fleet: Low		Demersal otter trawl fleet: Minor adverse (Not Significant)
	Pelagic trawl fleet: Negligible	Pelagic trawl fleet: Low		Pelagic trawl fleet: Negligible (Not Significant)

Activity and impact	Magnitude of impact	Receptor and sensitivity or value	Embedded environmental measures	Assessment of residual effect (significance)
Rampion 2 operation and maintenance activities leading to displacement or disruption of commercially important fish and shellfish resources	Potting fleet: Minor	Potting fleet: Medium	See measures set out in Chapter 8: Fish and shellfish ecology, Volume 2 of the ES (Document Reference: 6.2.8)	Potting fleet: Minor adverse (Not Significant)
	Dredging fleet: Minor	Dredging fleet: Medium		Dredging fleet: Minor adverse (Not Significant)
	Netting fleet: Minor	Netting fleet: Low		Netting fleet: Minor adverse (Not Significant)
	UK beam trawl fleet: Minor	UK beam trawl fleet: Low		UK beam trawl fleet: Minor adverse (Not Significant)
	Belgian beam trawl fleet: Minor	Belgian beam trawl fleet: Low		Belgian beam trawl fleet: Minor adverse (Not Significant)
	Demersal otter trawl fleet: Minor	Demersal otter trawl fleet: Low		Demersal otter trawl fleet: Minor adverse (Not Significant)
	Pelagic trawl fleet: Minor	Pelagic trawl fleet: Low		Pelagic trawl fleet: Minor adverse (Not Significant)
Increased vessel traffic within fishing grounds as a	Potting fleet: Minor	Potting fleet: Medium	C-45 C-46	Potting fleet: Minor adverse (Not Significant)

Activity and impact	Magnitude of impact	Receptor and sensitivity or value	Embedded environmental measures	Assessment of residual effect (significance)
result of changes to shipping routes and maintenance vessel traffic from Rampion 2 leading to interference with fishing activity			C-47 C-56 C-90 – C-93 C-194	
	Dredging fleet: Minor	Dredging fleet: Low		Dredging fleet: Minor adverse (Not Significant)
	Netting fleet: Minor	Netting fleet: Medium		Netting fleet: Minor adverse (Not Significant)
	UK beam trawl fleet: Minor	UK beam trawl fleet: Low		UK beam trawl fleet: Minor adverse (Not Significant)
	Belgian beam trawl fleet: Minor	Belgian beam trawl fleet: Low		Belgian beam trawl fleet: Minor adverse (Not Significant)
	Demersal otter trawl fleet: Minor	Demersal otter trawl fleet: Low		Demersal otter trawl fleet: Minor adverse (Not Significant)
	Pelagic trawl fleet: Minor	Pelagic trawl fleet: Low		Pelagic trawl fleet: Minor adverse (Not Significant)
Physical presence of Rampion 2 array area	Potting fleet: Minor	Potting fleet: Low	C-45 C-46 C-47	Potting fleet: Minor adverse (Not Significant)

Activity and impact	Magnitude of impact	Receptor and sensitivity or value	Embedded environmental measures	Assessment of residual effect (significance)
infrastructure leading to gear snagging			C-56 C-90 – C-93 C-194	
	Dredging fleet: Minor	Dredging fleet: Medium		Dredging fleet: Minor adverse (Not Significant)
	Netting fleet: Minor	Netting fleet: Low		Netting fleet: Minor adverse (Not Significant)
	UK beam trawl fleet: Minor	UK beam trawl fleet: Medium		UK beam trawl fleet: Minor adverse (Not Significant)
	Belgian beam trawl fleet: Minor	Belgian beam trawl fleet: Medium		Belgian beam trawl fleet: Minor adverse (Not Significant)
	Demersal otter trawl fleet: Minor	Demersal otter trawl fleet: Medium		Demersal otter trawl fleet: Minor adverse (Not Significant)
	Pelagic trawl fleet: Negligible	Pelagic trawl fleet: Low		Pelagic trawl fleet: Negligible (Not Significant)
Physical presence of the export cable and associated infrastructure leading to gear snagging	Potting fleet: Minor	Potting fleet: Low	C-45 C-46 C-47 C-56	Potting fleet: Minor adverse (Not Significant)

Activity and impact	Magnitude of impact	Receptor and sensitivity or value	Embedded environmental measures	Assessment of residual effect (significance)
			C-90 – C-93 C-194	
	Dredging fleet: Minor	Dredging fleet: Medium		Dredging fleet: Minor adverse (Not Significant)
	Netting fleet: Minor	Netting fleet: Low		Netting fleet: Minor adverse (Not Significant)
	UK beam trawl fleet: Minor	UK beam trawl fleet: Medium		UK beam trawl fleet: Minor adverse (Not Significant)
	Belgian beam trawl fleet: Minor	Belgian beam trawl fleet: Medium		Belgian beam trawl fleet: Minor adverse (Not Significant)
	Demersal otter trawl fleet: Minor	Demersal otter trawl fleet: Medium		Demersal otter trawl fleet: Minor adverse (Not Significant)
	Pelagic trawl fleet: Negligible	Pelagic trawl fleet: Low		Pelagic trawl fleet: Negligible (Not Significant)
Additional steaming to alternative fishing grounds for vessels that would otherwise fish within the Rampion 2 area	Potting fleet: Minor	Potting fleet: Medium	C-45 C-46 C-47 C-56 C-90 – C-93	Potting fleet: Minor adverse (Not Significant)

Activity and impact	Magnitude of impact	Receptor and sensitivity or value	Embedded environmental measures	Assessment of residual effect (significance)
			C-194 C-304	
	Dredging fleet: Minor	Dredging fleet: Medium		Dredging fleet: Minor adverse (Not Significant)
	Netting fleet: Minor	Netting fleet: Medium		Netting fleet: Minor adverse (Not Significant)
	UK beam trawl fleet: Minor	UK beam trawl fleet: Medium		UK beam trawl fleet: Minor adverse (Not Significant)
	Belgian beam trawl fleet: Minor	Belgian beam trawl fleet: Low		Belgian beam trawl fleet: Minor adverse (Not Significant)
	Demersal otter trawl fleet: Minor	Demersal otter trawl fleet: Medium		Demersal otter trawl fleet: Minor adverse (Not Significant)
	Pelagic trawl fleet: Minor	Pelagic trawl fleet: Low		Pelagic trawl fleet: Minor adverse (Not Significant)
Decommissioning				
Rampion 2 array area decommissioning activities leading to reduction in access to, or exclusion from,	Potting fleet: Minor	Potting fleet: Medium	C-45 C-46 C-47 C-90	Potting fleet: Minor adverse (Not Significant)

Activity and impact	Magnitude of impact	Receptor and sensitivity or value	Embedded environmental measures	Assessment of residual effect (significance)
potential and/or established fishing grounds			C-194 C-276 C-288 C-300	
	Dredging fleet: Minor	Dredging fleet: Low		Dredging fleet: Minor adverse (Not Significant)
	Netting fleet: Minor	Netting fleet: Low		Netting fleet: Minor adverse (Not Significant)
	UK beam trawl fleet: Minor	UK beam trawl fleet: Low		UK beam trawl fleet: Minor adverse (Not Significant)
	Belgian beam trawl fleet: Moderate	Belgian beam trawl fleet: Low		Belgian beam trawl fleet: Minor adverse (Not Significant)
	Demersal otter trawl fleet: Minor	Demersal otter trawl fleet: Low		Demersal otter trawl fleet: Minor adverse (Not Significant)
	Pelagic trawl fleet: Negligible	Pelagic trawl fleet: Low		Pelagic trawl fleet: Negligible (Not Significant)
Rampion 2 offshore cable corridor decommissioning activities leading to reduction	Potting fleet: Minor	Potting fleet: Medium	C-45 C-46 C-47	Potting fleet: Minor adverse (Not Significant)

Activity and impact	Magnitude of impact	Receptor and sensitivity or value	Embedded environmental measures	Assessment of residual effect (significance)
in access to, or exclusion from established fishing grounds			C-90 C-194 C-288 C-300	
	Dredging fleet: Minor	Dredging fleet: Low		Dredging fleet: Minor adverse (Not Significant)
	Netting fleet: Minor	Netting fleet: Medium		Netting fleet: Minor adverse (Not Significant)
	UK beam trawl fleet: Minor	UK beam trawl fleet: Low		UK beam trawl fleet: Minor adverse (Not Significant)
	Belgian beam trawl fleet: Negligible	Belgian beam trawl fleet: Low		Belgian beam trawl fleet: Negligible (Not Significant)
	Demersal otter trawl fleet: Minor	Demersal otter trawl fleet: Low		Demersal otter trawl fleet: Minor adverse (Not Significant)
	Pelagic trawl fleet: Negligible	Pelagic trawl fleet: Low		Pelagic trawl fleet: Negligible (Not Significant)
Displacement from Rampion 2 array area leading to gear conflict and increased fishing	Potting fleet: Minor	Potting fleet: Medium	C-45 C-46 C-47	Potting fleet: Minor adverse (Not Significant)

Activity and impact	Magnitude of impact	Receptor and sensitivity or value	Embedded environmental measures	Assessment of residual effect (significance)
pressure on adjacent grounds			C-90 C-288 C-300	
	Dredging fleet: Minor	Dredging fleet: Low		Dredging fleet: Minor adverse (Not Significant)
	Netting fleet: Minor	Netting fleet: Low		Netting fleet: Minor adverse (Not Significant)
	UK beam trawl fleet: Minor	UK beam trawl fleet: Low		UK beam trawl fleet: Minor adverse (Not Significant)
	Belgian beam trawl fleet: Minor	Belgian beam trawl fleet: Low		Belgian beam trawl fleet: Minor adverse (Not Significant)
	Demersal otter trawl fleet: Minor	Demersal otter trawl fleet: Low		Demersal otter trawl fleet: Minor adverse (Not Significant)
	Pelagic trawl fleet: Negligible	Pelagic trawl fleet: Low		Pelagic trawl fleet: Minor adverse (Not Significant)
Displacement from the Rampion 2 offshore cable corridor leading to gear conflict and increased fishing	Potting fleet: Minor	Potting fleet: Medium	C-45 C-46 C-47 C-90 C-288	Potting fleet: Minor adverse (Not Significant)

Activity and impact	Magnitude of impact	Receptor and sensitivity or value	Embedded environmental measures	Assessment of residual effect (significance)
pressure on adjacent grounds			C-300	
	Dredging fleet: Minor	Dredging fleet: Low		Dredging fleet: Minor adverse (Not Significant)
	Netting fleet: Minor	Netting fleet: Medium		Netting fleet: Minor adverse (Not Significant)
	UK beam trawl fleet: Minor	UK beam trawl fleet: Low		UK beam trawl fleet: Minor adverse (Not Significant)
	Belgian beam trawl fleet: Minor	Belgian beam trawl fleet: Low		Belgian beam trawl fleet: Minor adverse (Not Significant)
	Demersal otter trawl fleet: Minor	Demersal otter trawl fleet: Low		Demersal otter trawl fleet: Minor adverse (Not Significant)
	Pelagic trawl fleet: Negligible	Pelagic trawl fleet: Low		Pelagic trawl fleet: Negligible (Not Significant)
Physical presence of any infrastructure left in situ leading to gear snagging	Potting fleet: Minor	Potting fleet: Low	C-45 C-46 C-47 C-56 C-90 – C-93	Potting fleet: Minor adverse (Not Significant)

Activity and impact	Magnitude of impact	Receptor and sensitivity or value	Embedded environmental measures	Assessment of residual effect (significance)
			C-194 C-288 C-300	
	Dredging fleet: Minor	Dredging fleet: Medium		Dredging fleet: Minor adverse (Not Significant)
	Netting fleet: Minor	Netting fleet: Low		Netting fleet: Minor adverse (Not Significant)
	UK beam trawl fleet: Minor	UK beam trawl fleet: Medium		UK beam trawl fleet: Minor adverse (Not Significant)
	Belgian beam trawl fleet: Minor	Belgian beam trawl fleet: Medium		Belgian beam trawl fleet: Minor adverse (Not Significant)
	Demersal otter trawl fleet: Minor	Demersal otter trawl fleet: Medium		Demersal otter trawl fleet: Minor adverse (Not Significant)
	Pelagic trawl fleet: Negligible	Pelagic trawl fleet: Low		Pelagic trawl fleet: Negligible (Not Significant)
Decommissioning activities leading to displacement or disruption of commercially	Potting fleet: Minor	Potting fleet: Medium	See measures set out in Chapter 8: Fish and shellfish ecology, Volume 2	Potting fleet: Minor adverse (Not Significant)

Activity and impact	Magnitude of impact	Receptor and sensitivity or value	Embedded environmental measures	Assessment of residual effect (significance)
important fish and shellfish resources			of the ES (Document Reference: 6.2.8)	
	Dredging fleet: Minor	Dredging fleet: Medium		Dredging fleet: Minor adverse (Not Significant)
	Netting fleet: Minor	Netting fleet: Low		Netting fleet: Minor adverse (Not Significant)
	UK beam trawl fleet: Minor	UK beam trawl fleet: Low		UK beam trawl fleet: Minor adverse (Not Significant)
	Belgian beam trawl fleet: Minor	Belgian beam trawl fleet: Low		Belgian beam trawl fleet: Minor adverse (Not Significant)
	Demersal otter trawl fleet: Minor	Demersal otter trawl fleet: Low		Demersal otter trawl fleet: Minor adverse (Not Significant)
	Pelagic trawl fleet: Minor	Pelagic trawl fleet: Low		Pelagic trawl fleet: Minor adverse (Not Significant)
Increased vessel traffic within fishing grounds as a result of changes to shipping routes and transiting decommissioning vessel traffic from Rampion 2 array	Potting fleet: Minor	Potting fleet: Medium	C-45 C-46 C-47 C-56 C-90 – C-93 C-194	Potting fleet: Minor adverse (Not Significant)

Activity and impact	Magnitude of impact	Receptor and sensitivity or value	Embedded environmental measures	Assessment of residual effect (significance)
area and Rampion 2 offshore cable corridor leading to interference with fishing activity	Dredging fleet: Minor	Dredging fleet: Low		Dredging fleet: Minor adverse (Not Significant)
	Netting fleet: Minor	Netting fleet: Medium		Netting fleet: Minor adverse (Not Significant)
	UK beam trawl fleet: Minor	UK beam trawl fleet: Low		UK beam trawl fleet: Minor adverse (Not Significant)
	Belgian beam trawl fleet: Minor	Belgian beam trawl fleet: Low		Belgian beam trawl fleet: Minor adverse (Not Significant)
	Demersal otter trawl fleet: Minor	Demersal otter trawl fleet: Low		Demersal otter trawl fleet: Minor adverse (Not Significant)
	Pelagic trawl fleet: Minor	Pelagic trawl fleet: Low		Pelagic trawl fleet: Minor adverse (Not Significant)
	Additional steaming to alternative fishing grounds for vessels that would	Potting fleet: Minor	Potting fleet: Medium	C-45 C-46 C-47 C-56

Activity and impact	Magnitude of impact	Receptor and sensitivity or value	Embedded environmental measures	Assessment of residual effect (significance)
otherwise fish within the Rampion 2 area			C-90 – C-93 C-194 C-288 C-300 C-304	
	Dredging fleet: Minor	Dredging fleet: Medium		Dredging fleet: Minor adverse (Not Significant)
	Netting fleet: Minor	Netting fleet: Medium		Netting fleet: Minor adverse (Not Significant)
	UK beam trawl fleet: Minor	UK beam trawl fleet: Medium		UK beam trawl fleet: Minor adverse (Not Significant)
	Belgian beam trawl fleet: Minor	Belgian beam trawl fleet: Low		Belgian beam trawl fleet: Minor adverse (Not Significant)
	Demersal otter trawl fleet: Minor	Demersal otter trawl fleet: Medium		Demersal otter trawl fleet: Minor adverse (Not Significant)
	Pelagic trawl fleet: Minor	Pelagic trawl fleet: Low		Pelagic trawl fleet: Minor adverse (Not Significant)

Table 31-6 Summary of assessment of residual effects for marine mammals

Activity and impact	Magnitude of impact	Receptor and sensitivity or value	Embedded environmental measures	Assessment of residual effect (significance)
Construction				
Construction noise impacts (PTS) (piling and UXO clearance)	Piling: Vey Low	Piling: Low (all species)	C-52, C-54, C-102	Negligible (no significant ecological effect) (piling)
	UXO clearance: Low	UXO clearance: Low		Minor adverse (no significant ecological effect) (UXO)
Construction noise impacts (Disturbance)	Piling: Low (cetaceans) Very low (pinnipeds)	Piling: Low (cetacean species and harbour seal) and very low (grey seal)	C-52, C-102	Minor adverse (no significant ecological effect)
	UXO clearance: Low	UXO clearance: Low		

Activity and impact	Magnitude of impact	Receptor and sensitivity or value	Embedded environmental measures	Assessment of residual effect (significance)
Non-piling noise – Underwater noise from seabed preparation, rock dumping and cable installation	Very low	Low (cetacean species and harbour seal) and very low (grey seal)	C-52	Negligible (no significant ecological effect)
Vessel collision risk	Very low	High	C-51	Minor adverse (no significant ecological effect)
Vessel disturbance	Low	Low	C-51	Minor adverse (no significant ecological effect)
Change to prey availability	Very low	Low	C-52	Negligible (no significant ecological effect)
Disturbance to seal haul out sites at landfall	Very low	Medium	C-52, C-102	Minor significance (no significant ecological effect)
Operation and maintenance				
Operational noise	Very low	Very low	N/A	Negligible (no significant ecological effect)

Activity and impact	Magnitude of impact	Receptor and sensitivity or value	Embedded environmental measures	Assessment of residual effect (significance)
Vessel collision risk	Very low	High	C-51	Minor adverse (no significant ecological effect)
Vessel disturbance	Low	Very low	C-51	Negligible (no significant ecological effect)
Changes to prey availability	Very low	Low	C-52	Negligible (no significant ecological effect)
Decommissioning				
Decommissioning noise impacts (PTS)	The potential impacts during the decommissioning phase are anticipated to be similar or less than during construction. Therefore, the significance of effect from decommissioning noise (PTS) impacts on marine mammals has been assessed as being of minor adverse significance, which is Not Significant in EIA terms.			
Decommissioning noise impacts (disturbance)	The potential impacts during the decommissioning phase are anticipated to be similar or less than during construction. Therefore, the significance of effect from decommissioning noise (disturbance) impacts on marine mammals has been assessed as being of minor adverse significance, which is Not Significant in EIA terms.			
Vessel collision risk	The potential impacts during the decommissioning phase are anticipated to be similar or less than during construction. Therefore, the significance of effect from vessel collision risk has been assessed as being of minor adverse significance, which is Not Significant in EIA terms			
Vessel disturbance	The potential impacts during the decommissioning phase are anticipated to be similar or less than during construction. Therefore, the significance of effect from vessel disturbance on marine			

Activity and impact	Magnitude of impact	Receptor and sensitivity or value	Embedded environmental measures	Assessment of residual effect (significance)
				mammals has been assessed as being of negligible significance, which is Not Significant in EIA terms
Changes in prey availability				The potential impacts during the decommissioning phase are anticipated to be similar or less than during construction. Therefore, the significance of effect from changes in prey availability on marine mammals has been assessed as being of negligible significance, which is Not Significant in EIA terms
Disturbance of seal haul out sites at landfall				The potential impacts during the decommissioning phase are anticipated to be similar or less than during construction. Therefore, the significance of effect from disturbance to seal haul out sites has been assessed as being of negligible significance, which is Not Significant in EIA terms.

Table 31-7 Summary of assessment of residual effects for offshore and intertidal ornithology

Activity and impact	Receptor and sensitivity or value	Magnitude of impact	Embedded environmental measures	Assessment of residual effect (significance)
Construction				
Disturbance and displacement: intertidal cable corridor	Sanderling	Negligible	C-4 Horizontal Directional Drill (HDD) technique will be used at the landfall location. C-43 The subsea export cable ducts will be drilled underneath the beach using HDD techniques.	Not significant
	Mediterranean gull	Negligible		Not significant
Disturbance and displacement: offshore cable corridor	All receptors	Negligible		Not significant
Disturbance and displacement: array area	Gannet	Negligible		Not significant
	Guillemot	Negligible		Not significant
	Razorbill	Negligible		Not significant
Indirect effects: offshore cable corridor	All receptors	Negligible		Not significant
Indirect effects: array area	All receptors	Negligible		Not significant

Activity and impact	Receptor and sensitivity or value	Magnitude of impact	Embedded environmental measures	Assessment of residual effect (significance)
Operation and maintenance				
Disturbance and displacement: array area	Gannet	Negligible		Not significant
	Guillemot	Negligible		Not significant
	Razorbill	Negligible		Not significant
Collision risk: array area	Gannet	Negligible	C-89 There will be a minimum blade tip clearance of at least 22m above Mean High Water Springs (MHWS).	Not significant
	Kittiwake	Negligible		Not significant
	Common gull	Negligible		Not significant
	Lesser black-backed gull	Negligible		Not significant
	Herring gull	Negligible		Not significant
	Great black-backed gull	Negligible		Not significant
	Migratory species	Negligible		Not significant
Indirect effects: array area	All receptors	Negligible		Not significant

Decommissioning

Activity and impact	Receptor and sensitivity or value	Magnitude of impact	Embedded environmental measures	Assessment of residual effect (significance)
Disturbance and displacement: offshore cable corridor	All receptors	Negligible		Not significant
Disturbance and displacement: array area	Gannet	Negligible		Not significant
	Guillemot	Negligible		Not significant
	Razorbill	Negligible		Not significant
Indirect effects: offshore cable corridor	All receptors	Negligible		Not significant

Table 31-8 Summary of assessment of residual effects for shipping and navigation

Activity and impact	Frequency of impact	Receptor and consequence of impact	Embedded environmental measures	Assessment of residual effect (significance)
Construction				
Displacement of vessels (worst-case element is grounding risk).	Remote	All vessels – Moderate	C-46 C-47 C-48 C-53 C-84 C-85 C-304	Tolerable
Third-party to project vessel collision risk.	Extremely Unlikely	All vessels – Moderate	C-46 C-47 C-53 C-56 C-84 C-85 C-88	Broadly Acceptable
Reduced access to local ports (worst-case element is Shoreham Port).	Reasonably Probable	All vessels – Minor	C-88 C-304	Tolerable
Operation and maintenance				
Displacement of vessels (worst-case element is third-	Reasonably Probable	All vessels – Moderate	C-46 C-47	Tolerable

Activity and impact	Frequency of impact	Receptor and consequence of impact	Embedded environmental measures	Assessment of residual effect (significance)
party to third-party collision risk/ grounding risk).			C-53 C-84 C-85 C-304	
Third-party to project vessel collision risk.	Extremely Unlikely	Moderate	C-46 C-47 C-53 C-56 C-85 C-88	Broadly Acceptable
Vessel to structure collision risk (worst-case element is internal collision risk).	Remote	Recreational vessels and commercial fishing vessels – Moderate	C-46 C-47 C-53 C-56 C-84 C-85 C-86 C-87 C-88 C-89 C-284	Tolerable
Reduced access to local ports (worst case element is ports)	Frequent	All vessels – Negligible	C-84 C-88 C-304	Tolerable

Activity and impact	Frequency of impact	Receptor and consequence of impact	Embedded environmental measures	Assessment of residual effect (significance)
in the Solent – navigational safety risk).				
Changes in under keel clearance.	Negligible	All vessels – Moderate	C-41 C-45 C-53 C-83 C-96 C-300	Broadly Acceptable
Increased anchor interaction with sub-sea cables.	Negligible	Commercial vessels and commercial fishing vessels – Minor	C-41 C-45 C-96 C-300	Broadly Acceptable
Reduction of emergency response provision including Search and Rescue (SAR) capability.	Extremely Unlikely	Emergency responders – Minor	C-53 C-88	Broadly Acceptable
Decommissioning				
Displacement of vessels (worst-case element is grounding risk).	Remote	All vessels – Moderate	C-46 C-47 C-53 C-84 C-85	Tolerable

Activity and impact	Frequency of impact	Receptor and consequence of impact	Embedded environmental measures	Assessment of residual effect (significance)
Third-party to project vessel collision risk.	Extremely Unlikely	All vessels – Moderate	C-46 C-47 C-53 C-56 C-84 C-85 C-88 C-300	Broadly Acceptable
Reduced access to local ports (worst-case element is Shoreham Port).	Reasonably Probable	All vessels – Minor	C-88 C-300	Tolerable

Table 31-9 Summary of assessment of residual effects for civil and military aviation

Activity and impact	Magnitude of impact	Receptor and sensitivity or value	Embedded environmental measures	Assessment of residual effect (significance)
Construction				
Creation of an aviation obstacle environment.	Not Significant	Military low flying Offshore fixed-wing and helicopter operations SAR operations	C-108, C-109, C-110	Not Significant
Increased air traffic in the area related to wind farm activities.	Not Significant	Military low flying Offshore fixed-wing and helicopter operations SAR operations		Not Significant
Operation and maintenance				
Creation of an aviation obstacle environment.	Not Significant	Military low flying Offshore fixed-wing and helicopter operations SAR operations	C-108, C-109, C-110	Not Significant
Increased air traffic in the area related to wind farm activities.	Not Significant	Military low flying Offshore fixed-wing and helicopter operations		Not Significant

Activity and impact	Magnitude of impact	Receptor and sensitivity or value	Embedded environmental measures	Assessment of residual effect (significance)
SAR operations				
Physical presence of WTGs leading to impacts on published IFPs.	Major Significant	Shoreham Airport	Assessment/revision of IFPs.	Not Significant
WTGs causing permanent interference on civil and military radars.	Major Significant	NERL Pease Pottage ATC PSR	Radar technical solution at source.	Not Significant
Decommissioning				
Creation of an aviation obstacle environment.	No Change	Military low flying Offshore fixed-wing and helicopter operations SAR operations	C-108, C-109, C-110	No Change
Increased air traffic in the area related to wind farm activities.	Not Significant	Military low flying Offshore fixed-wing and helicopter operations SAR operations		Not Significant

Table 31-10 Summary of assessment of residual effects for seascape, landscape and visual

Activity and impact	Receptor and sensitivity	Magnitude of change	Embedded environmental measures	Assessment of residual effect (significance)
Construction				
Impact of the construction of Rampion 2 on perceived seascape character, landscape character, designated landscapes and views/visual amenity	<p>The effects arising as a result of the construction of Rampion 2 are assessed as being of the same magnitude and significance on all seascape, landscape and visual receptors as those arising due to their O&M, as assessed in Section 15.10 of Chapter 15: Seascape, landscape and visual impact assessment, Volume 2 of the ES (Document Reference: 6.2.15) and summarised below, differing primarily as the effects will be short-term and temporary, during the length of the construction phase. There may also be some variation in appearance of the construction activities, compared to the operation and maintenance (O&M) phase, mainly due the influence of offshore jack-up installation vessels and WTG (Wind turbine generator) installation, that will not be present during the operational phase. For all seascape, landscape and visual receptors these impacts during construction are assessed to be of no greater magnitude and effects of no greater significance than the effects assessed during O&M.</p>			
Operation and Maintenance (O&M)				
<i>Impact (daytime) of the O&M of the Project on seascape character</i>				
Direct impact on perceived seascape character	SCA 07B Selsey Bill to Worthing Offshore Medium	High	C-37, C-38, C-40, C-43, C-61	Significant Major/moderate in EIA terms, long-term, reversible.
	SCA 07D Worthing to Seaford Head Offshore Medium	Medium-low	C-37, C-38, C-40, C-43, C-61	Not significant Moderate in EIA terms, long-term, reversible.

Activity and impact	Receptor and sensitivity	Magnitude of change	Embedded environmental measures	Assessment of residual effect (significance)
Indirect impact on perceived seascape character	MCA05 The Solent Medium-high	Low to Medium-low	C-37, C-38, C-40, C-43, C-61	Not significant Moderate to moderate/minor in EIA terms, long-term, reversible.
	MCA06 South Wight High to medium	Low to Medium-low	C-37, C-38, C-40, C-43, C-61	Not significant Moderate to moderate/minor in EIA terms, long-term, reversible.
	SCA 07A Selsey Bill to Worthing Inshore Medium	Medium-high	C-37, C-38, C-40, C-43, C-61	Significant Moderate in EIA terms, long-term, reversible.
	SCA 07C Worthing to Seaford Head Inshore Medium-high	Medium-low	C-37, C-38, C-40, C-43, C-61	Not significant Moderate in EIA terms, long-term, reversible.
	MCA 08 South Downs Maritime High	Medium to medium-low	C-37, C-38, C-40, C-43, C-61	Significant Major/moderate to moderate in EIA terms, long-term, reversible.
	MCA 13 English Channel Medium-low	Medium-low	C-37, C-38, C-40, C-43, C-61	Not significant Minor in EIA terms, long-term, reversible.
<i>Impact (daytime) of the O&M of the Project on perceived landscape character</i>				

Activity and impact	Receptor and sensitivity	Magnitude of change	Embedded environmental measures	Assessment of residual effect (significance)
Indirect impact on perceived landscape character of SDNP	A1. Ouse to Eastbourne Open Downs High	<p>Medium on views from the closest parts of the Landscape Character Area (LCA) near Seaford Head and Seven Sisters.</p> <p>Medium-low with increasing distance eastwards towards Birling Gap and Beachy Head and low from the downs further inland.</p> <p>Zero change to fabric of physical landscape and majority of the key characteristics of the LCA.</p>	C-37, C-38, C40, C-43, C-61	<p>Significant on views from closest parts of the LCA near Seaford Head and Seven Sisters. Major/moderate in EIA terms, long-term, reversible.</p> <p>Not significant on views from the coastal downs between Birling Gap and Beachy Head and downs further inland. Moderate to moderate/minor in EIA terms, long-term, reversible.</p> <p>Not significant (no effect) on fabric of physical landscape and majority of key characteristics of the LCA.</p>
	A2. Adur to Ouse Open Downs Medium-high	<p>Medium-high on views from two areas of open coastal downs near the coast at Rottingdean and Telscombe Cliffs.</p> <p>Medium from the tops of the open rolling</p>		<p>Significant on views from two areas of open coastal downs near the coast at Rottingdean and Telscombe Cliffs. Major/moderate in EIA terms, long-term, reversible.</p> <p>Not significant on views from the tops of the open rolling upland</p>

Activity and impact	Receptor and sensitivity	Magnitude of change	Embedded environmental measures	Assessment of residual effect (significance)
		upland downs inland of Brighton and Hove and Shoreham.		downs inland of Brighton and Hove and Shoreham; and the branching dry valleys. Moderate to minor in EIA terms, long-term, reversible.
	A3. Arun to Adur Open Downs Medium-high	Negligible from the furrowed extensive branching dry valley systems. Zero change to fabric of physical landscape and many key characteristics of the LCA.	C-37, C38, C40, C43, C-61	Not significant (no effect) on fabric of physical landscape and many key characteristics of the LCA. Significant on the closest areas open downland north of Worthing around Cissbury Ring and Highdown Hill. Major/moderate in EIA terms, long-term, reversible. Not significant on the distant tops of open downland between Arun and Adur river valleys and branching dry valley systems. Moderate to moderate/minor in EIA terms, long-term, reversible.

Activity and impact	Receptor and sensitivity	Magnitude of change	Embedded environmental measures	Assessment of residual effect (significance)
		<p>Low from the furrowed extensive branching dry valley systems.</p>		<p>Not significant (no effect) on fabric of physical landscape and many key characteristics of the LCA.</p>
		<p>Zero change to fabric of physical landscape and many key characteristics of the LCA.</p>		
	<p>B1. Goodwood to Arundel Wooded Estate Downland Medium</p>	<p>Medium on views from the high open ridges of the downs between Bignor Hill and the Trundle and lower hills between Goodwood and Slindon.</p>	<p>C-37, C-38, C-40, C-43, C-61</p>	<p>Not significant on views from the high open ridges of the downs between Bignor Hill and the Trundle and lower hills between Goodwood and Slindon. Moderate in EIA terms, long-term, reversible.</p>
		<p>Low over majority of the LCA of folded downland landform masked by large woodland blocks.</p>		<p>Not significant over majority of the LCA of folded downland landform masked by large woodland blocks. Moderate/minor in EIA terms, long-term, reversible.</p>
		<p>Zero change to fabric of physical landscape and many key characteristics of the LCA.</p>		<p>Not significant (no effect) on fabric of physical landscape and</p>

Activity and impact	Receptor and sensitivity	Magnitude of change	Embedded environmental measures	Assessment of residual effect (significance)
				many key characteristics of the LCA.
	R1. South Downs Upper Coastal Plain Medium	Medium on views from localised area of LCA around Highdown Hill.	C-37, C-38, C-40, C-43, C-61	Significant on localised area of LCA around Highdown Hill. Moderate in EIA terms, long-term, reversible.
		Low from areas of LCA at Funtington, East Lavant and Goodwood forming narrow strip on boundary of SDNP.		Not significant on areas of LCA at Funtington, East Lavant and Goodwood forming narrow strip on boundary of SDNP.
		Zero change to fabric of physical landscape and many key characteristics of the LCA.		Not significant (no effect) on fabric of physical landscape and many key characteristics of the LCA.
	S1. Seaford to Beachy Head Shoreline High	Medium on views from the closest parts of the LCA near Seaford Head and Seven Sisters.	C-37, C-38, C-40, C-43, C-61	Significant on views from closest parts of the LCA near Seaford Head and Seven Sisters. Major/moderate in EIA terms, long-term, reversible.
		Medium-low with increasing distance eastwards towards		Not significant on the coastal downs between Birling Gap and Beachy Head.

Activity and impact	Receptor and sensitivity	Magnitude of change	Embedded environmental measures	Assessment of residual effect (significance)
		<p>Birling Gap and Beachy Head.</p> <p>Zero change to fabric of physical landscape and many key characteristics of the LCA.</p>		<p>Moderate in EIA terms, long-term, reversible.</p> <p>Not significant (no effect) on fabric of physical landscape and many key characteristics of the LCA.</p>
	<p>S2. Brighton to Rottingdean Medium</p>	<p>Medium-high on views from the narrow band of intertidal shoreline between Brighton and Rottingdean.</p> <p>Zero change to fabric of physical landscape and many key characteristics of the LCA.</p>	<p>C-37, C-38, C-40, C-43, C-61</p>	<p>Significant on views from the narrow band of intertidal shoreline between Brighton and Rottingdean. Moderate in EIA terms, long-term, reversible.</p> <p>Not significant (no effect) on fabric of physical landscape and many key characteristics of the LCA.</p>
<p>Indirect impact on perceived landscape character of West Sussex</p>	<p>SC1. South Coast Shoreline Medium</p>	<p>Medium-high from the long narrow shoreline of shingle banks to the east of Selsey Bill, extending between Selsey Bill and Shoreham-by-Sea.</p>	<p>C-37, C-38, C-40, C-43, C-61</p>	<p>Significant from the long narrow shoreline of shingle banks to the east of Selsey Bill, extending between Selsey Bill and Shoreham-by-Sea. Moderate in EIA terms, long-term, reversible.</p>

Activity and impact	Receptor and sensitivity	Magnitude of change	Embedded environmental measures	Assessment of residual effect (significance)
		<p>Medium-low to the west of Selsey Bill to West Wittering.</p> <p>Zero change to fabric of physical landscape and many key characteristics of the LCA.</p>		<p>Not significant to the west of Selsey Bill to West Wittering. Moderate/minor in EIA terms, long-term, reversible.</p> <p>Not significant (no effect) on fabric of physical landscape and many key characteristics of the LCA.</p>
	SC3 Chichester Harbour Medium-high	<p>Low change to perceived character.</p> <p>Zero change to fabric of physical landscape and many key characteristics of the LCA.</p>	C-37, C-38, C-40, C-43, C-61	<p>Not significant Moderate/minor in EIA terms, long-term, reversible.</p> <p>Not significant (no effect) on fabric of physical landscape and many key characteristics of the LCA.</p>
	SC4 Pagham Harbour Medium	<p>Medium-low change to perceived character.</p> <p>Zero change to fabric of physical landscape and many key characteristics of the LCA.</p>	C-37, C-38, C-40, C-43, C-61	<p>Not significant Moderate/minor in EIA terms, long-term, reversible.</p> <p>Not significant (no effect) on fabric of physical landscape and many key characteristics of the LCA.</p>

Activity and impact	Receptor and sensitivity	Magnitude of change	Embedded environmental measures	Assessment of residual effect (significance)
	SC10. Lower Arun Valley Medium	<p>Low from the Climping area of the Arun Valley closest to the coast between Climping, Atherington and the River Arun</p> <p>Negligible on the Arun Valley further north between Climping and Arundel.</p> <p>Zero change to fabric of physical landscape and many key characteristics of the LCA.</p>	C-37, C-38, C-40, C-43, C-61	<p>Not significant Minor to minor/negligible in EIA terms, long-term, reversible.</p> <p>Not significant (no effect) on fabric of physical landscape and many key characteristics of the LCA.</p>
Indirect impact on perceived landscape character of Hampshire	11c. Eastern Solent Medium	Low change to perceived character.	C-37, C-38, C-40, C-43, C-61	<p>Not significant Minor in EIA terms, long-term, reversible.</p>
Indirect impact on perceived landscape character of the Isle of Wight	1. Chalk Downs High	Medium-low on the chalk downs at Bembridge and Culver Down (near Culver Cliff)	C-37, C-38, C-40, C-43, C-61	<p>Not significant on the chalk downs at Bembridge and Culver Down (near Culver Cliff). Moderate in EIA terms, long-term, reversible.</p>

Activity and impact	Receptor and sensitivity	Magnitude of change	Embedded environmental measures	Assessment of residual effect (significance)
		<p>Low on the chalk downs at Ventnor and Shanklin Downs</p>		<p>Not significant on the chalk downs at Ventnor and Shanklin Downs. Moderate/minor in EIA terms, long-term, reversible.</p>
	<p>11. The Undercliff Medium-high</p>	<p>Low on the Undercliff between Luccombe Bay and Dunnose/Ventnor.</p>	<p>C-37, C-38, C-40, C-43, C-61</p>	<p>Not significant on the Undercliff between Luccombe Bay and Dunnose/Ventnor Moderate/minor in EIA terms, long-term, reversible.</p>
		<p>Negligible on the Undercliff along the southern coastline between Ventnor and St Catherine’s Point.</p>		<p>Not significant on the Undercliff along the southern coastline between Ventnor and St Catherine’s Point. Minor in EIA terms, long-term, reversible.</p>
		<p>Zero on the Undercliff between St Catherine’s Point and Chale Bay.</p>		<p>Not significant (no effect) on the Undercliff between St Catherine’s Point and Chale Bay.</p>
<p>Impact (daytime) of the O&M of the Project on special qualities of designated landscapes</p>				
	<p>1. Diverse, inspirational</p>	<p>‘Breathtaking views’:</p>	<p>C-37, C-38, C-40, C-43, C-61</p>	<p>‘Breathtaking views’:</p>

Activity and impact	Receptor and sensitivity	Magnitude of change	Embedded environmental measures	Assessment of residual effect (significance)
Indirect impact on perceived SDNP Special Qualities	<i>landscapes and breathtaking views</i> High	Medium from closest parts of the Sussex Heritage Coast area of the SDNP between Seaford Head, Cuckmere Haven and Seven Sisters; from the wider South Downs where the sea is a key component, defined as the tops of the open downs between the Cuckmere and Ouse valleys (LCA A1); from the two areas of open coastal downs near the coast at Rottingdean and Telscombe Cliffs; the tops of the open downs inland of Brighton and Shoreham, between the Ouse and Adur Valley (LCA A2); and the tops of the open downland between the Arun and Adur river valleys (LCA A3).		<p>Significant and major/moderate in EIA terms, long-term, reversible from closest parts of the Sussex Heritage Coast area of the SDNP between Seaford Head, Cuckmere Haven and Seven Sisters; from the wider South Downs where the sea is a key component, defined as the tops of the open downs between the Cuckmere and Ouse valleys (LCA A1); from the two areas of open coastal downs near the coast at Rottingdean and Telscombe Cliffs; the tops of the open downs inland of Brighton and Shoreham, between the Ouse and Adur Valley (LCA A2); and the tops of the open downland between the Arun and Adur river valleys (LCA A3).</p> <p>Not significant and moderate in EIA terms, long-term, reversible with increasing distance eastwards between Birling Gap and Beachy Head</p> <p><i>‘Diverse, inspirational landscapes’:</i></p>

Activity and impact	Receptor and sensitivity	Magnitude of change	Embedded environmental measures	Assessment of residual effect (significance)
		<p>Medium-low with increasing distance eastwards between Birling Gap and Beachy Head</p> <p><i>‘Diverse, inspirational landscapes’:</i></p> <p>Medium-low</p>		<p>Not significant and moderate in EIA terms, long-term, reversible.</p>
	<p>3. <i>Tranquil and unspoilt places</i> High</p>	<p>Medium-low from inland ‘core’ areas formed by the tops of the chalk downs of the SDNP and from pockets of the more remote sections of elevated chalk downs and discrete locations at the coastal edge.</p>	<p>C-37, C-38, C-40, C-43, C-61</p>	<p>Not significant and moderate in EIA terms, long-term, reversible from inland ‘core’ areas formed by the tops of the chalk downs of the SDNP and from pockets of the more remote sections of elevated chalk downs and discrete locations at the coastal edge.</p>
	<p>5. <i>Great opportunities for recreational activities and learning experiences</i> High</p>	<p>Negligible</p>	<p>C-37, C-38, C-40, C-43, C-61</p>	<p>Not significant and minor in EIA terms, long-term, reversible</p>

Activity and impact	Receptor and sensitivity	Magnitude of change	Embedded environmental measures	Assessment of residual effect (significance)
	<p>6. <i>Well-conserved historical features and a rich cultural heritage</i> High</p>	<p>Zero change to fabric of well conserved historical features.</p>	<p>C-37, C-38, C-40, C-43, C-61</p>	<p>Not significant (no effect) to the fabric of well conserved historical features.</p> <p>Effects on their setting as assessed in Chapter 25: Historic environment, Volume 2 of the ES (Document Reference 6.2.25).</p>
	<p>7. <i>Distinctive towns and villages, and communities with real pride in their area</i> High</p>	<p>Low to the distinctiveness of Brighton & Hove</p> <p>Zero change to the distinctiveness of all other towns and villages in the SDNP with no visibility of the Rampion 2 array area.</p>	<p>C-37, C-38, C-40, C-43, C-61</p>	<p>Not significant and moderate/minor in EIA terms, long-term, reversible to the distinctiveness of Brighton & Hove.</p> <p>Not significant (no effect) to the distinctiveness of all other towns and villages in the SDNP with no visibility of the Rampion 2 array area.</p>
<p>Indirect impact on perceived Chichester Harbour Area of Outstanding Natural Beauty (CHAONB) Special Qualities</p>	<p>1. <i>The unique blend of land and sea – especially the combination of expanses of open waters, narrow inlets and intimate creeks</i> High</p>	<p>Medium from the open waters and coastal edges at the mouth to Chichester Harbour.</p> <p>Negligible from open water of the Chichester</p>	<p>C-37, C-38, C-40, C-43, C-61</p>	<p>Significant and major/moderate in EIA terms, long-term, reversible from the open waters and coastal edges at the mouth to Chichester Harbour.</p>

Activity and impact	Receptor and sensitivity	Magnitude of change	Embedded environmental measures	Assessment of residual effect (significance)
		Harbour Central Basin (B1).		Not significant (minor) from open water of the Chichester Harbour Central Basin (B1).
	<i>2. The frequently wooded shoreline</i> High	Zero	C-37, C-38, C-40, C-43, C-61	Not significant (no effect)
	<i>3. The flatness of the landform, unusual among AONBs, accentuates the significance of sea and tide and of distant landmarks across land and water</i> High	Negligible change to the long views towards landmarks such as Chichester Cathedral and the South Downs.	C-37, C-38, C-40, C-43, C-61	Not significant and minor in EIA terms, long-term, reversible effect on the long views towards landmarks such as Chichester Cathedral and the South Downs.
		Medium on the perceived 'significance of the sea' and of 'distant landmarks across water', experienced in views from the 'open waters' at Chichester Harbour Mouth and coastal strip edges of F1 South Hayling Island.		Significant and moderate in EIA terms, long-term, reversible effect on the perceived 'significance of the sea' and of 'distant landmarks across water', experienced in views from the 'open waters' at Chichester Harbour Mouth and coastal strip edges of F1 South Hayling Island.

Activity and impact	Receptor and sensitivity	Magnitude of change	Embedded environmental measures	Assessment of residual effect (significance)
	<i>4. The open water of the central area of the Harbour</i> High	Negligible	C-37, C-38, C-40, C-43, C-61	Not significant and minor in EIA terms, long-term, reversible
	<i>5. The overall sense of wilderness within the seascape</i> High	Negligible	C-37, C-38, C-40, C-43, C-61	Not significant and minor in EIA terms, long-term, reversible
	<i>6. The particularly strong historic environment and heritage assets</i> High	Zero change to 'strong historic environment'.	C-37, C-38, C-40, C-43, C-61	Not significant (no effect) to the 'strong historic environment'.
	<i>7. The picturesque harbourside settlements</i> High	Negligible	C-37, C-38, C-40, C-43, C-61	Not significant and minor in EIA terms, long-term, reversible
	<i>8. The unspoilt character and unobtrusive beauty</i> High	Negligible	C-37, C-38, C-40, C-43, C-61	Not significant and minor in EIA terms, long-term, reversible
	<i>9. The very special sense of peace and tranquillity, largely engendered by the gentle way the AONB is used and</i>	Negligible	C-37, C-38, C-40, C-43, C-61	Not significant and minor in EIA terms, long-term, reversible

Activity and impact	Receptor and sensitivity	Magnitude of change	Embedded environmental measures	Assessment of residual effect (significance)
Indirect impact on perceived loW AONB Special Qualities	<i>closeness to nature that is experienced</i> High	Medium-low to low	C-37, C-38, C-40, C-43, C-61	Not significant and moderate to minor in EIA terms, long-term, reversible
	<i>1. From majestic sea cliffs and sweeping beaches to the quiet solitude of ancient woodland.</i>	Low	C-37, C-38, C-40, C-43, C-61	Not significant and minor in EIA terms, long-term, reversible
	<i>2. The ever-changing patchwork of worked fields to the timeless and enduring presence of the downs.</i>	Medium-low to low	C-37, C-38, C-40, C-43, C-61	Not significant and moderate to minor in EIA terms, long-term, reversible
	<i>3. The intricate inlets of tranquil creeks to the long-distance views from coastal heath and downland.</i>	Zero	C-37, C-38, C40, C-43, C-61	Not significant (no effect)

Activity and impact	Receptor and sensitivity	Magnitude of change	Embedded environmental measures	Assessment of residual effect (significance)
	<i>Estates and Victorian villas to the irregular undulating hedged fields of pasture.</i>			
	<i>5. The dark starlit skies to the bustle and colour of festivals and events.</i>	Medium-low to low	C-37, C-38, C-40, C-43, C-61, C-266	Not significant and moderate to minor in EIA terms, long-term, reversible
	<i>6. The winding paths, shuts and hollow ways in the countryside to chines and steps down cliffs to the beach.</i>	Zero	C-37, C-38, C-40, C-43, C-61	Not significant (no effect)
	<i>7. Place names and dialect to poetry, literature and art.</i>	Zero	C-37, C-38, C-40, C-43, C-61	Not significant (no effect)
	<i>8. Isolated houses, hamlets and rural villages to harbour towns, castles and tumuli</i>	Zero change to fabric of historical features.	C-37, C-38, C-40, C-43, C-61	Not significant (no effect) to the fabric of historical features. Effects on their setting as assessed in Chapter 25: Historic

Activity and impact	Receptor and sensitivity	Magnitude of change	Embedded environmental measures	Assessment of residual effect (significance)
				environment, Volume 2 of the ES (Document Reference 6.2.25).
Impact (daytime) of the O&M of the Project on views/visual amenity				
Direct impact on view from SDNP during operation of Rampion 2	Viewpoint 1. Beachy Head High	Medium-low	C-37, C-38, C-40, C-43, C-61	Significant Moderate in EIA terms, direct, long-term, reversible.
	Viewpoint 2. Birling Gap High	Medium-low	C-37, C-38, C-40, C-43, C-61	Significant Moderate in EIA terms, direct, long-term, reversible.
	Viewpoint 3. Seven Sisters Country Park High	Medium	C-37, C-38, C-40, C-43, C-61	Significant Major/moderate in EIA terms, direct, long-term, reversible.
	Viewpoint 4. Seaford Head High	Medium	C-37, C-38, C-40, C-43, C-61	Significant Major/moderate in EIA terms, direct, long-term, reversible.
	Viewpoint 7. Beacon Hill, Rottingdean High	Medium-high	C-37, C-38, C-40, C-43, C-61	Significant Major in EIA terms, direct, long-term, reversible.
	Viewpoint 15. Willingdon Hill Medium-high	Low	C-37, C-38, C-40, C-43, C-61	Not significant Moderate/minor in EIA terms, direct, long-term, reversible.

Activity and impact	Receptor and sensitivity	Magnitude of change	Embedded environmental measures	Assessment of residual effect (significance)
	Viewpoint 16. Firle Beacon Medium-high	Medium	C-37, C-38, C-40, C-43, C-61	Significant Moderate in EIA terms, direct, long-term, reversible.
	Viewpoint 17. Devil's Dyke High	Medium	C-37, C-38, C40, C43, C-61	Significant Major/moderate in EIA terms, direct, long-term, reversible.
	Viewpoint 18. Cissbury Ring High	Medium-high	C-37, C-38, C-40, C-43, C-61	Significant Major in EIA terms, direct, long-term, reversible.
	Viewpoint 19. Highdown Hill Medium	Medium-high	C-37, C-38, C-40, C43, C-61	Significant Major/moderate in EIA terms, direct, long-term, reversible.
	Viewpoint 20. Springhead Hill Medium-high	Medium	C-37, C-38, C-40, C-43, C-61	Significant Moderate in EIA terms, direct, long-term, reversible.
	Viewpoint 21. Bignor Hill Medium-high	Medium	C-37, C-38, C-40, C-43, C-61	Significant Moderate in EIA terms, direct, long-term, reversible.
	Viewpoint 27. Hollingbury Hill Fort High	Medium	C-37, C-38, C-40, C-43, C-61	Significant Major/moderate in EIA terms, direct, long-term, reversible.

Activity and impact	Receptor and sensitivity	Magnitude of change	Embedded environmental measures	Assessment of residual effect (significance)
	Viewpoint 28. Cuckmere Haven Beach High	Medium	C-37, C-38, C-40, C-43, C-61	Significant Major/moderate in EIA terms, direct, long-term, reversible.
	Viewpoint 29. Kingley Vale National Nature Reserve Medium-high	Medium-low	C-37, C-38, C-40, C-43, C-61	Not significant Moderate in EIA terms, direct, long-term, reversible.
	Viewpoint 30. Halnaker Windmill Medium-high	Medium	C-37, C-38, C-40, C-43, C-61	Significant Moderate in EIA terms, direct, long-term, reversible.
	Viewpoint 31. Butser Hill National Nature Reserve Medium-high	Low	C-37, C-38, C-40, C-43, C-61	Not significant Moderate/minor in EIA terms, direct, long-term, reversible.
	Viewpoint 32. Levin Down Medium-high	Zero	C-37, C-38, C-40, C-43, C-61	Not significant (no effect).
	Viewpoint 33. Arundel Castle Medium-high	Medium	C-37, C-38, C-40, C-43, C-61	Significant Moderate in EIA terms, direct, long-term, reversible.

Activity and impact	Receptor and sensitivity	Magnitude of change	Embedded environmental measures	Assessment of residual effect (significance)
	Viewpoint 41. Slindon Folly Medium-high	Medium	C-37, C-38, C-40, C-43, C-61	Significant Moderate in EIA terms, direct, long-term, reversible.
	Viewpoint 50. The Trundle Medium-high	Medium	C-37, C-38, C-40, C-43, C-61	Significant Moderate in EIA terms, direct, long-term, reversible.
	Viewpoint 51. Ditchling Beacon Medium-high	Medium	C-37, C-38, C-40, C-43, C-61	Significant Moderate in EIA terms, direct, long-term, reversible.
	Viewpoint 52. Chanctonbury Ring Medium-high	Medium-high	C-37, C-38, C-40, C-43, C-61	Significant Major/moderate in EIA terms, direct, long-term, reversible.
	Viewpoint 53. Amberley Mount Medium-high	Medium	C-37, C-38, C-40, C-43, C-61	Significant Moderate in EIA terms, direct, long-term, reversible.
	Viewpoint 54. Chantry Hill Medium-high	Medium	C-37, C-38, C-40, C-43, C-61	Significant Moderate in EIA terms, direct, long-term, reversible.
	Viewpoint 55. Beeding Hill Medium	Medium	C-37, C-38, C-40, C-43, C-61	Significant Moderate in EIA terms, direct, long-term, reversible.

Activity and impact	Receptor and sensitivity	Magnitude of change	Embedded environmental measures	Assessment of residual effect (significance)
	Viewpoint 57. Telscomb Tye Medium-high	Medium	C-37, C-38, C-40, C-43, C-61	Significant Moderate in EIA terms, direct, long-term, reversible.
	Viewpoint 58. Wolstonbury Hill Medium-high	Low	C-37, C-38, C-40, C-43, C-61	Not significant Moderate/minor in EIA terms, direct, long-term, reversible.
Direct impact on view from West Sussex during operation of Rampion 2	9. Shoreham Harbour / A259 Medium-low	Medium	C-37, C-38, C-40, C-43, C-61	Not significant Moderate/minor in EIA terms, direct, long-term, reversible.
	10. Worthing seafront promenade Medium-high	High	C-37, C-38, C-40, C-43, C-61	Significant Major in EIA terms, direct, long-term, reversible.
	11. Littlehampton seafront promenade Medium-high	High	C-37, C-38, C-40, C-43, C-61	Significant Major in EIA terms, direct, long-term, reversible.
	12. Bognor Regis seafront promenade Medium-high	Medium-high	C-37, C-38, C-40, C-43, C-61	Significant Major/moderate in EIA terms, direct, long-term, reversible.
	13. Pagham Beach Medium-high	Medium-high	C-37, C-38, C-40, C-43, C-61	Significant Major/moderate in EIA terms, direct, long-term, reversible.

Activity and impact	Receptor and sensitivity	Magnitude of change	Embedded environmental measures	Assessment of residual effect (significance)
	14. Selsey seafront promenade Medium-high	Medium-high	C-37, C-38, C-40, C-43, C-61	Significant Major/moderate in EIA terms, direct, long-term, reversible.
	22. Eastoke Point (Chichester Harbour AONB) Medium-high	Medium	C-37, C-38, C-40, C-43, C-61	Significant Moderate in EIA terms, direct, long-term, reversible.
	26. Low Weald (A24, near Ashington) Medium-low	Zero	C-37, C-38, C-40, C-43, C-61	Not significant (no effect)
	40. Climping Beach Medium-high	High	C-37, C-38, C-40, C-43, C-61	Significant Major in EIA terms, direct, long-term, reversible.
	47. High Weald (near Bolney) Medium	Negligible	C-37, C-38, C-40, C-43, C-61	Not significant Minor/negligible in EIA terms, direct, long-term, reversible.
	A. East Wittering Medium-high	Medium	C-37, C-38, C-40, C-43, C-61	Significant Moderate in EIA terms, direct, long-term, reversible.
	B1. Chichester Marina Medium	Zero	C-37, C-38, C-40, C-43, C-61	Not significant (no effect)

Activity and impact	Receptor and sensitivity	Magnitude of change	Embedded environmental measures	Assessment of residual effect (significance)
	B2. Dell Quay Medium	Zero	C-37, C-38, C-40, C-43, C-61	Not significant (no effect)
	C. Eastergate (proposed A29) Medium	Medium-low	C-37, C-38, C-40, C-43, C-61	Not significant Moderate/minor in EIA terms, direct, long-term, reversible.
	D. Footpath between A259 and Colworth Medium	Zero	C-37, C-38, C-40, C-43, C-61	Not significant (no effect)
	E. Ferring Gap Medium-high	High	C-37, C-38, C-40, C-43, C-61	Significant Major in EIA terms, direct, long-term, reversible.
	F. Lancing Beach Medium-high	High	C-37, C-38, C-40, C-43, C-61	Significant Major in EIA terms, direct, long-term, reversible.
Direct impact on view from East Sussex and City of Brighton & Hove during operation of Rampion 2	5. Newhaven Medium	Medium-high	C-37, C-38, C-40, C-43, C-61	Significant Moderate in EIA terms, direct, long-term, reversible.
	6. Peacehaven Medium-high	Medium-high	C-37, C-38, C-40, C-43, C-61	Significant Major/moderate in EIA terms, direct, long-term, reversible.

Activity and impact	Receptor and sensitivity	Magnitude of change	Embedded environmental measures	Assessment of residual effect (significance)
	8. Brighton sea front promenade High	Medium-high	C-37, C-38, C40, C-43, C-61	Significant Major/moderate in EIA terms, direct, long-term, reversible.
Direct impact on view from Hampshire during operation of Rampion 2	43. Gilkicker Point Medium	Low	C-37, C-38, C-40, C-43, C-61	Not significant Minor in EIA terms, direct, long-term, reversible
Direct impact on view from Isle of Wight during operation of Rampion 2	24. Bembridge, Isle of Wight Medium-high	Medium-low	C-37, C-38, C-40, C-43, C-61	Not significant Moderate in EIA terms, direct, long-term, reversible
	34. Bembridge Down High	Medium-low	C-37, C-38, C-40, C-43, C-61	Not significant Moderate in EIA terms, direct, long-term, reversible
	35. St. Boniface Down above Ventnor High	Low	C-37, C-38, C-40, C-43, C-61	Not significant Moderate/minor in EIA terms, direct, long-term, reversible
Impact (daytime) of the O&M of the Project on visual receptors				
Direct impact on views from recreational route (SDNP)	South Downs Way High to medium	Medium to negligible varying along route Zero from sections of route outside ZTV (with no visibility)	C-37, C-38, C-40, C-43, C-61	Significant to not significant Major/moderate to negligible in EIA terms, direct, long-term, reversible

Activity and impact	Receptor and sensitivity	Magnitude of change	Embedded environmental measures	Assessment of residual effect (significance)
	Monarch's Way High to medium	Medium-high to low varying along route Zero from sections of route outside ZTV (with no visibility)	C-37, C-38, C-40, C-43, C-61	Not significant (no effect) on sections of route outside ZTV (with no visibility) Significant to not significant Major/moderate to minor in EIA terms, direct, long-term, reversible Not significant (no effect) on sections of route outside ZTV (with no visibility)
Direct impact on views from recreational route (West Sussex)	Arun Way Medium-high to low	High to negligible varying along route Zero from sections of route outside ZTV (with no visibility)	C-37, C-38, C-40, C-43, C-61	Significant to not significant Major/moderate to minor in EIA terms, direct, long-term, reversible Not significant (no effect) on sections of route outside ZTV (with no visibility)
Direct impact on views from recreational route (East Sussex)	National Cycle Network Route 2 Medium	High to low varying along route Zero from sections of route outside ZTV (with no visibility)	C-37, C-38, C-40, C-43, C-61	Significant to not significant Major/moderate to minor in EIA terms, direct, long-term, reversible Not significant (no effect) on sections of route outside ZTV (with no visibility)

Activity and impact	Receptor and sensitivity	Magnitude of change	Embedded environmental measures	Assessment of residual effect (significance)
Direct impact on views from recreational route (Hampshire)	Solent Way Low	Low to negligible varying along route Zero from sections of route outside ZTV (with no visibility)	C-37, C-38, C-40, C-43, C-61	Not significant Minor to negligible in EIA terms, direct, long-term, reversible Not significant (no effect) on sections of route outside ZTV (with no visibility)
	New Lipchis Way Medium	Medium to low Zero from sections of route outside ZTV (with no visibility)	C-37, C-38, C-40, C-43, C-61	Significant to not significant Moderate to minor in EIA terms, direct, long-term, reversible Not significant (no effect) on sections of route outside ZTV (with no visibility)
Direct impact on views from recreational route (Isle of Wight)	Isle of Wight Coastal Path High to low	Medium-low to negligible varying along route Zero from sections of route outside ZTV (with no visibility)	C-37, C-38, C-40, C-43, C-61	Not significant Moderate to minor in EIA terms, direct, long-term, reversible Not significant (no effect) on sections of route outside ZTV (with no visibility)
Impact (night-time) of the O&M of the Project on visual receptors / views				
Direct impact on views from South Downs	Viewpoint 21 Bignor Hill Medium-high	Medium-low	C-62, C-94, C-98, C-110, C-266	Not significant

Activity and impact	Receptor and sensitivity	Magnitude of change	Embedded environmental measures	Assessment of residual effect (significance)
International Dark Sky Reserve (IDSR) (Dark Sky Core)	Viewpoint 31 Butser Hill Medium	Negligible	C-62, C-94, C-98, C-110, C-266	Moderate in EIA terms, direct, long-term, reversible. Not significant Minor/negligible in EIA terms, direct, long-term, reversible.
	Viewpoint 2 Birling Gap Medium-high	Medium-low	C-62, C-94, C-98, C-110, C-266	Not significant Moderate in EIA terms, direct, long-term, reversible.
Direct impact on views from South Downs IDSR (Intrinsic Rural Darkness and Buffer Zone)	Viewpoint 17 Devil's Dyke Medium-high	Medium-low	C-62, C-94, C-98, C-110, C-266	Not significant Moderate in EIA terms, direct, long-term, reversible.
	Viewpoint 27 Hollingbury Hillfort Medium	Medium-low	C-62, C-94, C-98, C-110, C-266	Not significant Moderate/minor in EIA terms, direct, long-term, reversible.
Direct impact on views from South Downs IDSR (Transition Zone)	Viewpoint 27 Hollingbury Hillfort Medium	Medium-low	C-62, C-94, C-98, C-110, C-266	Not significant Moderate/minor in EIA terms, direct, long-term, reversible.
Direct impact on views from South Downs IDSR (Urban)	Larger settlements within the SDNP, including Lewes, Ditchling, Petworth, Midhurst, Femhurst, East Liss and Petersfield	Zero	C-62, C-94, C-98, C-110, C-266	Not significant (no effect)

Activity and impact	Receptor and sensitivity	Magnitude of change	Embedded environmental measures	Assessment of residual effect (significance)
Direct impact on views from urban areas outside the South Downs IDSR	Viewpoint 8 Brighton Seafront Low	Low	C-62, C-94, C-98, C-110, C-266	Not significant Negligible in EIA terms, direct, long-term, reversible.

Decommissioning

Impact of the decommissioning of Rampion 2 on perceived seascape character, landscape character, designated landscapes and views/visual amenity

The effects arising as a result of the decommissioning of Rampion 2 are assessed as being of the same magnitude and significance on all seascape, landscape and visual receptors as those arising due to their O&M, as assessed in [Section 15.10](#) of [Chapter 15: Seascape, landscape and visual impact assessment, Volume 2](#) of the ES (Document Reference: 6.2.15) and summarised above, differing primarily as the effects will be short-term and temporary, during the length of the decommissioning phase. There may also be some variation in appearance of the decommissioning activities, compared to the operational and maintenance phase, mainly due the influence of decommissioning vessels and partially decommissioned WTGs, that will not be present during the O&M phase. For all seascape, landscape and visual receptors these impacts during decommissioning are assessed to be of no greater magnitude and effects of no greater significance than the effects assessed during O&M.

Table 31-11 Summary of assessment of residual effects for marine archaeology

Activity and impact	Magnitude of impact	Receptor and sensitivity (value) or value	Embedded environmental measures	Assessment of residual effect (significance)
Construction				
Direct impact: Removal of sediment containing undisturbed archaeological contexts during seabed preparation ahead of construction activities.	Negligible	Marine heritage receptors negligible to very high	C-57 (Project specific Outline Marine WSI) C-58 (Archaeological assessments of geophysical data) C-59 (Staged geoarchaeological assessments) C-60 (Avoidance of known receptors) C-111 (Decommissioning plan) C-277 (Post-consent monitoring plan) C-298 (Post-consent reporting and publishing)	Not significant
Direct Impact: Penetration, compression, and disturbance effects of piling foundations.	Negligible	Marine heritage receptors negligible to very high	C-57 (Project specific Outline Marine WSI) C-58 (Archaeological assessments of geophysical data) C-59 (Staged geoarchaeological assessments) C-60 (Avoidance of known receptors) C-111 (Decommissioning plan) C-277 (Post-consent monitoring plan) C-298 (Post-consent reporting and publishing)	Not significant

Activity and impact	Magnitude of impact	Receptor and sensitivity (value) or value	Embedded environmental measures	Assessment of residual effect (significance)
Direct Impact: Penetration, compression, and disturbance of cable laying operations.	Negligible	Marine heritage receptors negligible to very high	C-57 (Project specific Outline Marine WSI) C-58 (Archaeological assessments of geophysical data) C-59 (Staged geoarchaeological assessments) C-60 (Avoidance of known receptors) C-111 (Decommissioning plan) C-277 (Post-consent monitoring plan) C-298 (Post-consent reporting and publishing)	Not significant
Direct Impact Penetration, compression and disturbance effects of jack-up barges and anchoring of construction vessels during construction activities.	Negligible	Marine heritage receptors negligible to very high	C-57 (Project specific Outline Marine WSI) C-58 (Archaeological assessments of geophysical data) C-59 (Staged geoarchaeological assessments) C-60 (Avoidance of known receptors) C-111 (Decommissioning plan) C-277 (Post-consent monitoring plan) C-298 (Post-consent reporting and publishing)	Not significant
Indirect Impact: Disturbance of sediment containing potential marine	Negligible	Marine heritage receptors negligible to very high	C-57 (Project specific Outline Marine WSI)	Not significant

Activity and impact	Magnitude of impact	Receptor and sensitivity (value) or value	Embedded environmental measures	Assessment of residual effect (significance)
heritage receptors (material and contexts) during construction activities.			C-58 (Archaeological assessments of geophysical data) C-59 (Staged geoarchaeological assessments) C-60 (Avoidance of known receptors) C-111 (Decommissioning plan) C-277 (Post-consent monitoring plan) C-298 (Post-consent reporting and publishing)	
Indirect impact: Changes to the HSC as a result of construction and survey vessel activities and the addition of cables, foundations and turbines.	Negligible	No perceived change or perceived positive change	C-57 (Project specific Outline Marine WSI) C-111 (Decommissioning plan) C-277 (Post-consent monitoring plan) C-298 (Post-consent reporting and publishing)	Not significant
Operation and maintenance				
Direct Impact: Penetration compression and disturbance effects of maintenance activities at WTG substation foundations and along,	Negligible	Marine heritage receptors negligible to very high	C-57 (Project specific Outline Marine WSI) C-58 (Archaeological assessments of geophysical data) C-59 (Staged geoarchaeological assessments) C-60 (Avoidance of known receptors) C-111 (Decommissioning plan)	Not significant

Activity and impact	Magnitude of impact	Receptor and sensitivity (value) or value	Embedded environmental measures	Assessment of residual effect (significance)
inter-array and export cables.			C-277 (Post-consent monitoring plan) C-298 (Post-consent reporting and publishing)	
Indirect Impact: Disturbance of sediment containing potential marine heritage receptors during maintenance activities.	Negligible	Marine heritage receptors negligible to very high	C-57 (Project specific Outline Marine WSI) C-58 (Archaeological assessments of geophysical data) C-59 (Staged geoarchaeological assessments) C-60 (Avoidance of known receptors) C-111 (Decommissioning plan) C-277 (Post-consent monitoring plan) C-298 (Post-consent reporting and publishing)	Not significant
Direct impact: Penetration compression and disturbance effects of jack-up barges and anchoring of operation and maintenance vessels during the operation and maintenance phase.	Negligible	Marine heritage receptors negligible to very high	C-57 (Project specific Outline Marine WSI) C-58 (Archaeological assessments of geophysical data) C-59 (Staged geoarchaeological assessments) C-60 (Avoidance of known receptors) C-111 (Decommissioning plan) C-277 (Post-consent monitoring plan)	Not significant

Activity and impact	Magnitude of impact	Receptor and sensitivity (value) or value	Embedded environmental measures	Assessment of residual effect (significance)
			C-298 (Post-consent reporting and publishing)	
Indirect impact: Scour effects caused by the presence of WTG substation foundations and the exposure of inter-array and export cables or the use of cable protection measures.	No perceived change or positive change	Marine heritage receptors negligible to very high	C-57 (Project specific Outline Marine WSI) C-58 (Archaeological assessments of geophysical data) C-59 (Staged geoarchaeological assessments) C-60 (Avoidance of known receptors) C-111 (Decommissioning plan) C-277 (Post-consent monitoring plan) C-298 (Post-consent reporting and publishing)	Not significant
Indirect impact: Changes to the HSC as a result of operation and maintenance vessel activities and the presence of the completed wind farm.	Negligible	No perceived change or perceived positive change	C-57 (Project specific Outline Marine WSI) C-111 (Decommissioning plan) C-277 (Post-consent monitoring plan) C-298 (Post-consent reporting and publishing)	Not significant
Decommissioning				

Activity and impact	Magnitude of impact	Receptor and sensitivity (value) or value	Embedded environmental measures	Assessment of residual effect (significance)
Direct impact: Penetration, compression and disturbance effects of jack-up barges and anchoring of decommissioning vessels.	Negligible	Marine heritage receptors negligible to very high	C-57 (Project specific Outline Marine WSI) C-58 (Archaeological assessments of geophysical data) C-59 (Staged geoarchaeological assessments) C-60 (Avoidance of known receptors) C-111 (Decommissioning plan) C-277 (Post-consent monitoring plan) C-298 (Post-consent reporting and publishing)	Not significant
Indirect impact: Draw-down of sediment into voids left by removed WTG foundations leading to loss of sediment or destabilisation of archaeological sites and contexts.	Negligible	Marine heritage receptors negligible to very high	C-57 (Project specific Outline Marine WSI) C-58 (Archaeological assessments of geophysical data) C-59 (Staged geoarchaeological assessments) C-60 (Avoidance of known receptors) C-111 (Decommissioning plan) C-277 (Post-consent monitoring plan) C-298 (Post-consent reporting and publishing)	Not significant
Indirect impact: Changes to the HSC as a result of decommissioning	Negligible	No perceived change or perceived positive change	C-57 (Project specific Outline Marine WSI) C-111 (Decommissioning plan)	Not significant

Activity and impact	Magnitude of impact	Receptor and sensitivity (value) or value	Embedded environmental measures	Assessment of residual effect (significance)
activities and the removal of wind farm components.			C-277 (Post-consent monitoring plan) C-298 (Post-consent reporting and publishing)	

Table 31-12 Summary of assessment of residual effects for socio-economics

Activity and impact	Magnitude of impact	Receptor and sensitivity or value	Embedded environmental measures	Assessment of residual effect (significance)
Construction				
Impact on employment	Negligible	UK and Sussex study areas – Very high	C-34 and C-35	Negligible (not significant)
Impact on GVA	Negligible	UK and Sussex Study areas – Very high	C-34 and C-35	Negligible (not significant)
Impact on tourism receptors related to onshore infrastructure	Negligible	Onshore study area – Very high	C-19, C-22, C-26 and C-32	Negligible (not significant)
Impact on volume and value of tourism economy related to offshore infrastructure	Negligible	Sussex, including SDNP and coastal towns of Sussex – Very high	C-46 and C-66	Negligible (not significant)
Impact on access to and enjoyment of onshore recreation activity	Negligible for construction of substation. Minor to Moderate for trench excavation, cable laying and trenchless crossing. Moderate for laydown areas and haul roads.	Very high – PRoW 2092 and 2693. High – PRoW 829, 2264, 2175, 2211, 2091, 2208, 2093, 3514, 2372_2 and 2666.	C-1, C-2, C-7, C-9, C-18, C-19, C-20, C-22, C-26, C-32, C-33, C-43, C-66, C-128, C-161, C-162, C-163 and C-202.	Moderate/ Major – Public Right of Way (PRoW) 2092 and 2693 Minor/ Moderate – PRoW 2092, 2208, 2211 and 3514

Activity and impact	Magnitude of impact	Receptor and sensitivity or value	Embedded environmental measures	Assessment of residual effect (significance)
		142no. PRoW in the ZOI have been assessed as being of Low and medium sensitivity.		
Operation and maintenance				
Impact on employment	Negligible	UK and Sussex study areas – Very high	C-34 and C-35	Negligible (not significant)
Impact on GVA	Negligible	UK and Sussex study areas – Very high	C-34 and C-35	Negligible (not significant)
Impact on tourism receptors related to onshore infrastructure	Negligible	Onshore study area – Very high	C-1, C-7, C-9, C-26, and C-163	Negligible (not significant)
Impact on volume and value of tourism economy related to offshore infrastructure	Negligible	Sussex and coastal towns of Sussex – Very high	C-46 and C-53	Negligible (not significant)
Impact on access to and enjoyment of onshore recreation activity	Negligible	Very high – PRoW 2092 and 2693. High – PRoW 829, 2264, 2175, 2211, 2091, 2208, 2093,	C-1, C-2, C-7, C-9, C-18, C-19, C-20, C-22, C-26, C-32, C-33, C-43, C-66, C-128, C-161, C-162, C-163 and C-202	Negligible (not significant)

Activity and impact	Magnitude of impact	Receptor and sensitivity or value	Embedded environmental measures	Assessment of residual effect (significance)
		3514, 2372_2 and 2666. 142no. PRow in the ZOI have been assessed as being of Low and medium sensitivity.		
Decommissioning				
Impact on employment	Negligible	UK and Sussex study areas – Very high	C-34 and C-35	Negligible (not significant)
Impact on GVA	Negligible	UK and Sussex Study areas – Very high	C-34 and C-35	Negligible (not significant)
Impact on volume and value of tourism economy	Negligible	Sussex study area – 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	Negligible	Very high – PRow 2092 and 2693. High – PRow 829, 2264, 2175, 2211, 2091, 2208, 2093, 3514, 2372_2 and 2666.	C-1, C-2, C-7, C-9, C-18, C-19, C-20, C-22, C-26, C-32, C-33, C-43, C-66, C-128, C-161, C-162, C-163 and C-202	Negligible (not significant)

Activity and impact	Magnitude of impact	Receptor and sensitivity or value	Embedded environmental measures	Assessment of residual effect (significance)
		142no. PRow in the ZOI have been assessed as being of Low and medium sensitivity.		

Table 31-13 Summary of landscape effects: onshore substation at Oakendene

Landscape Receptor	Sensitivity	Construction (4 Years)		Operation and maintenance			Decommissioning
		Magnitude of change	Level of effect	Level of effect Year 1	Level of effect Year 5	Level of effect Year 10	Level of effect
Local Character Area (LCA)							
J3 Cowfold & Shermanbury Farmlands	Medium-high	Zero to High	Major (<300m)	Major (<300m)	Major to Major / Moderate (<300m)	Major / Moderate (<300m)	Major / Moderate to Moderate to Minor (<300m)
Landscape elements: (2No lines of hedgerow and trees and associated scrub)	Medium-high	High	Major	Major	Major to Major / Moderate	Major / Moderate	Major / Moderate to Moderate to Minor
M1 Crabtree & Nuthurst Ridges & Ghylls	Medium to high	Zero to Medium-low	Moderate / Minor	Minor	Minor	Minor	Minor
LW1 Hickstead Low Weald	Medium	Zero to Negligible	Minor / Negligible	Minor / Negligible	Minor / Negligible	Minor / Negligible	Minor / Negligible
Landscape Designations							
High Weald AONB	High	Zero	No Effect	No Effect	No Effect	No Effect	No Effect

Table 31-14 Summary of visual effects: onshore substation at Oakendene

Visual Receptor	Sensitivity	Construction (4 Years)		Operation and maintenance			Decommissioning
		Magnitude of change	Level of effect	Level of effect Year 1	Level of effect Year 5	Level of effect Year 10	Level of effect
Settlements							
Cowfold	High	Zero	No Effect	No Effect	No Effect	No Effect	No Effect
Transport Routes							
A272	Medium	Zero to High (300m)	Major / Moderate	Moderate / Minor	Minor	Minor / Negligible	Minor / Negligible
A281	Medium	Zero	No Effect	No Effect	No Effect	No Effect	No Effect
Kent Street	High to Medium	Zero to High (1km)	Major to Moderate	Major / Moderate to Minor	Moderate	Moderate / Minor to Minor / Negligible	Moderate / Minor to Minor / Negligible
Recreational Routes and tourist destinations							
PRoW 1786 and 1787	High	High to Medium	Major to Major / Moderate	Major to Major / Moderate	Major / Moderate to Moderate	Moderate to Minor	Moderate to Minor
PRoW 1788	High	High	Major	Moderate	Moderate	Moderate to Minor	Minor
PRoW 1775 - 1777	High	Zero	No Effect	No Effect	No Effect	No Effect	No Effect

Visual Receptor	Sensitivity	Construction (4 Years)		Operation and maintenance			Decommissioning
		Magnitude of change	Level of effect	Level of effect Year 1	Level of effect Year 5	Level of effect Year 10	Level of effect
Wineham Lane Caravan Park	High	Zero	No Effect	No Effect	No Effect	No Effect	No Effect

Table 31-15 Summary of landscape effects: extension at the existing National Grid Bolney substation

Visual Receptor	Sensitivity	Construction (4 Years)		Operation and maintenance			Decommissioning
		Magnitude of change	Level of effect	Level of effect Year 1	Level of effect Year 5	Level of effect Year 10	Level of effect
Local Character Area (LCA)							
<u>LW1 Hickstead</u> <u>Low Weald</u>	Low	Zero to Medium	Minor	Minor	Negligible	Negligible	Minor to Negligible

Table 31-16 Summary of visual effects: extension at the existing National Grid Bolney substation

Visual Receptor	Sensitivity	Construction (4 Years)		Operation and maintenance			Decommissioning
		Magnitude of change	Level of effect	Level of effect Year 1	Level of effect Year 5	Level of Effect Year 10	Level of effect
Transport Routes							
Bob Lane	High to Medium	Low	Minor (200m)	Minor (200m)	Minor to Minor / Negligible	Minor / Negligible	Minor / Negligible
Wineham Lane	High to Medium	Zero	No Effect	No Effect	No Effect	No Effect	No Effect
Recreational Routes and tourist destinations							
PRoW 1T / 36Bo	High	High	Major (ProW 1T for 350m)	Minor	Minor	Minor	Major to Minor
PRoW 8T / 34Bo	High	Negligible	Minor - No View	Minor - No View	Minor - No View	Minor - No View	Minor - No View
Wineham Lane Caravan Park	High	Zero	No Effect	No Effect	No Effect	No Effect	No Effect

Table 31-17 Summary of landscape effects: onshore cable corridor

Landscape Receptor	Sensitivity	Construction (3.5 Years)		Operation and maintenance		
		Magnitude of change	Level of effect	Level of effect Year 1	Level of effect Year 5	Level of effect Year 10
Landscape character areas: Part 1 – Climping to South Downs National Park (SDNP)						
SC1: South Coast Shoreline	Medium	Zero	No Effect	No Effect	No Effect	No Effect
Landscape elements	N/A - No trees / woodland / hedges directly affected.					
31: Climping Lower Coastal Plain	Medium-low	Medium-high	Moderate (<250m)	Negligible	No Effect	No Effect
Landscape elements: (Trees / hedgerow on Church Lane)	Medium	Medium	Major / Moderate	Moderate	Minor	Minor / Negligible
34: Middle Arun Valley Floor	Medium-low	Medium-high	Moderate (<350m)	Negligible	No Effect	No Effect
Landscape elements: (4No. areas of scrub and 1No hedge notched to 14m)	Medium-low	Medium	Moderate / Minor	Negligible	No Effect	No Effect
35: Lower Arun Valley Floor	Medium-low	Medium-high	Moderate (<350m)	Negligible	No Effect	No Effect

Landscape Receptor	Sensitivity	Construction (3.5 Years)		Operation and maintenance		
		Magnitude of change	Level of effect	Level of effect Year 1	Level of effect Year 5	Level of effect Year 10
Landscape elements: (3No. scrub cleared to 30m and hedge notched to 14m)	Medium-low	Medium-high	Moderate	Minor	Minor / Negligible	No Effect
38: Littlehampton Arun Valley Sides	Low	Low	Negligible	No Effect	No Effect	No Effect
Landscape elements:	No trees / woodland / hedges directly affected.					
40: Lyminster-Angmering Coastal Plain	Medium	Medium-high	Moderate (<350m)	Moderate / Minor	Minor	No Effect
Landscape elements: (6No. treelines / hedges notched to 6-14m and 2No woods cleared / notched to 6m and an areas of scrub cleared to 20m)	Medium-high	Medium	Moderate	Moderate	Moderate / Minor	Minor
41: Black Ditch Rife	Medium-low	Medium-high	Moderate (<250m)	Negligible	No Effect	No Effect
Landscape elements:	Medium-low	Low	Minor / Negligible	Minor / Negligible	No Effect	No Effect

Landscape Receptor	Sensitivity	Construction (3.5 Years)		Operation and maintenance		
		Magnitude of change	Level of effect	Level of effect Year 1	Level of effect Year 5	Level of effect Year 10
Landscape character areas: Part 2 – SDNP						
R1: South Downs Upper Coastal Plain	High	Medium-high	Major (<250m)	Moderate	Minor	No Effect
Landscape elements: (Double treeline / notched to 6m and 2No treeline / hedges notched to 14m)	Medium-high	Medium-high	Major / Moderate	Moderate	Moderate / Minor	Minor
B4: Angmering and Clapham Wooded Estate Downland	High	Medium-high	Major (<250m)	Moderate	Minor	No Effect
Landscape elements: (Double woodland cleared to 23m and 3No.hedges notched to 14m)	High	Medium-high	Major	Major / Moderate	Moderate	Minor
A3: Arun to Adur Open Downs	High	High	Major (<650m)	Minor	No Effect	No Effect

Landscape Receptor	Sensitivity	Construction (3.5 Years)		Operation and maintenance		
		Magnitude of change	Level of effect	Level of effect Year 1	Level of effect Year 5	Level of effect Year 10
Landscape elements: (8No. treelines / hedges / scrub notched to 14m)	Medium-high	Medium-high	Major / Moderate	Moderate	Minor	No Effect
I3: Arun to Adur Downs Scarp	High	Negligible-Zero	Minor	No Effect	No Effect	No Effect
Landscape elements:	N/A - No trees / woodland / hedges directly affected.					
J3: Arun to Adur Scarp Footslopes	High	Medium-high	Major (<250m)	Moderate	Minor	No Effect
Landscape elements: (1No. woodland cleared to 30m and 19No. treelines / hedges notched to 14m)	High	Medium-high	Major	Major	Moderate	Minor
Landscape character areas: Part 3 – SDNP to Oakendene / Bolney						
D1: Amberley to Steyning Farmlands	Medium-low	High	Moderate	No Effect	No Effect	No Effect

Landscape Receptor	Sensitivity	Construction (3.5 Years)		Operation and maintenance		
		Magnitude of change	Level of effect	Level of effect Year 1	Level of effect Year 5	Level of effect Year 10
Landscape elements: (treeline / scrub cleared to 20m)	Medium-high	Medium-high	Major	Moderate	Moderate / Minor	Minor
E1: Parham & Storrington Wooded Farmlands & Heaths	Medium-low	Negligible-Zero	Negligible	No Effect	No Effect	No Effect
Landscape elements:	N/A - No trees / woodland / hedges directly affected.					
F1: Pulborough, Chiltington & Thakeham Farmlands	Medium-high	Medium-high	Major / Moderate (<250m)	No Effect	No Effect	No Effect
Landscape elements: (2No. treeline and 1No. hedge cleared 15m / notched to 14m)	Medium-high	Medium-high	Major / Moderate	Moderate	Moderate / Minor	Minor
G1: Ashurst & Wiston Wooded Farmlands	Medium-high	Medium-high	Major / Moderate (<150m)	Moderate / Minor	Minor	No Effect
Landscape elements: (3No. treelines /	Medium-high	Medium-high	Major / Moderate	Moderate	Moderate	Minor

Landscape Receptor	Sensitivity	Construction (3.5 Years)		Operation and maintenance		
		Magnitude of change	Level of effect	Level of effect Year 1	Level of effect Year 5	Level of effect Year 10
woodland cleared to 20 - 30m, and 20No. treelines / hedges notched to 14m)						
O3: Steyning & Henfield Brooks	Medium	Medium-high	Moderate (<350m)	Minor	Minor / Negligible	No Effect
Landscape elements: (20No. including 1No. wood cleared to 30m 1No hedge cleared to 20m and 18No treelines / hedges notched to 6-14m)	Medium-high	Medium-high	Major / Moderate	Major / Moderate	Moderate	Minor
J3: Cowfold & Shermanbury Farmlands	Medium	Medium-high	Moderate (<250m)	Moderate / Minor	Minor / Negligible	No Effect
Landscape elements: (40No. including areas of woodland / treeline / hedge and scrub clearance and notching of hedges /	Medium-high	High to Medium-high	Major to Major / Moderate	Major / Moderate	Moderate	Minor

Landscape Receptor	Sensitivity	Construction (3.5 Years)		Operation and maintenance		
		Magnitude of change	Level of effect	Level of effect Year 1	Level of effect Year 5	Level of effect Year 10
treelines scrub to 14m and 6m)						
LW1: Hickstead Low Weald	Medium-low	Medium-high	Moderate (<150m)	Minor	Minor / Negligible	No Effect
Landscape elements: (1No. wood / hedge cleared to 20m and 2No treelines / hedges notched to 6-14m)	Medium-high	Medium-high	Major / Moderate	Moderate	Moderate	Minor

Table 31-18 Summary of visual effects: onshore cable corridor

Visual Receptor	Sensitivity	Construction (3.5 Years)		Operation and maintenance		
		Magnitude of change	Level of effect*	Level of effect Year 1	Level of effect Year 5	Level of effect Year 10
Settlements						
Climping and Atherington	High	Low to Negligible-Zero	Moderate to Minor	No Effect	No Effect	No Effect

Visual Receptor	Sensitivity	Construction (3.5 Years)		Operation and maintenance		
		Magnitude of change	Level of effect*	Level of effect Year 1	Level of effect Year 5	Level of effect Year 10
Littlehampton	High	Low to Negligible-Zero	Moderate to Minor	No Effect	No Effect	No Effect
Lyminster	High	Low to Negligible-Zero	Moderate to Minor	No Effect	No Effect	No Effect
Poling	High	Low to Negligible-Zero	Moderate to Minor	No Effect	No Effect	No Effect
Washington	High	Negligible-Zero	Minor	No Effect	No Effect	No Effect
Wiston	High	Negligible-Zero	Minor	No Effect	No Effect	No Effect
Ashurst	High	Low to Negligible-Zero	Moderate to Minor	No Effect	No Effect	No Effect
Partridge Green	High	Zero	No effect	No effect	No effect	No effect
Shermanbury	High	Negligible-Zero	Minor	No Effect	No Effect	No Effect
Wineham	High	Zero	No effect	No effect	No effect	No effect
Transport routes						
Climping Street	High to Medium	Negligible-Zero	Minor to Minor / Negligible	No Effect	No Effect	No Effect

Visual Receptor	Sensitivity	Construction (3.5 Years)		Operation and maintenance		
		Magnitude of change	Level of effect*	Level of effect Year 1	Level of effect Year 5	Level of effect Year 10
A259	High	Medium to Negligible-Zero	Major / Moderate (<400m)	Minor / Negligible	No Effect	No Effect
Ferry Road (Sustrans National Cycle Route (NCR) 2 / South Coast Cycle Route)	High	Medium-low	Moderate (<200m)	Minor	No Effect	No Effect
Church Lane	High	High	Major to Major / Moderate (<150m)	Moderate	Moderate	Minor
Ford Road	Medium	Negligible-Zero	Minor / Negligible	No Effect	No Effect	No Effect
Railway: Littlehampton / Arundel / Ford	Medium	High to Medium-	Major / Moderate to Moderate (<1.5km)	No Effect	No Effect	No Effect
A284 Lyminster Road	Medium	Medium-high	Major / Moderate (<250m)	Moderate / Minor	Minor / Negligible	No Effect
(Future baseline: Lyminster Bypass)	Medium	High to Medium	Major / Moderate to Moderate (<650m)	No Effect	No Effect	No Effect

Visual Receptor	Sensitivity	Construction (3.5 Years)		Operation and maintenance		
		Magnitude of change	Level of effect*	Level of effect Year 1	Level of effect Year 5	Level of effect Year 10
Polling Street	High to Medium	High	Major to Major / Moderate to Moderate (<200m)	Minor	No Effect	No Effect
A27	Medium	Medium-low	Moderate / Minor	Minor	Minor / Negligible	No Effect
A24	Medium	Negligible-Zero	Minor / Negligible	No Effect	No Effect	No Effect
A283 (The Pike)	Medium-high	High to Medium	Major to Moderate (<1.5km)	Moderate	Moderate / Minor to Minor	No Effect
Water Lane	High to Medium	Negligible-Zero	Minor / Negligible	No Effect	No Effect	No Effect
Spithandle Lane	High to Medium	Low to Negligible-Zero	Moderate / Minor to Minor / Negligible	Minor / Negligible	No Effect	No Effect
B2135	Medium	Low to Negligible-Zero	Minor to Minor / Negligible	Minor / Negligible	No Effect	No Effect
B2116	Medium	High	Major / Moderate to Moderate (<500m)	Moderate / Minor	Minor / Negligible	No Effect
A281	Medium	Medium to Negligible-Zero	Moderate to Minor / Negligible	Moderate / Minor	Minor	Minor / Negligible

Visual Receptor	Sensitivity	Construction (3.5 Years)		Operation and maintenance		
		Magnitude of change	Level of effect*	Level of effect Year 1	Level of effect Year 5	Level of effect Year 10
A272 (excluding Oakendene substation)	Medium	Negligible-Zero	Minor / Negligible	No Effect	No Effect	No Effect
Kings Lane	High to Medium	High	Major to Major / Moderate (<100m)	Moderate to Moderate / Minor	Minor to Minor / Negligible	No Effect
Kent Street	High to Medium	High	Major to Major / Moderate (<1.5km)	Moderate to Moderate / Minor	Minor to Minor / Negligible	No Effect
Wineham Lane	High to Medium	High	Major to Major / Moderate (<50m)	Minor to Minor / Negligible	Minor to Minor / Negligible	No Effect
Bob Lane	High to Medium	Zero	No effect	No Effect	No Effect	No Effect
Recreational Routes						
South Downs Way	High	High	Major to Moderate (<600m to 1.5km)	No Effect	No Effect	No Effect
England Coast Path / Arun Way / PRow 829	High	Medium	Major / Moderate (<400m)	No Effect	No Effect	No Effect
Sustrans NCR 2 / South Coast	High	Medium-low	Moderate (<200m)	Minor	No Effect	No Effect

Visual Receptor	Sensitivity	Construction (3.5 Years)		Operation and maintenance		
		Magnitude of change	Level of effect*	Level of effect Year 1	Level of effect Year 5	Level of effect Year 10
Cycle Route (See Ferry Road and Church Lane)						
Sustrans NCR 2 / South Coast Cycle Route – see assessment for transport route Ferry Road						
Sustrans NCR 223 / Downs Link	High	High	Major to Moderate (<430m)	Moderate	Minor	No Effect
Arun Way	High	High	Major to Moderate (<550m)	No Effect	No Effect	No Effect
Monarch's Way	High	High	Major (<450m)	Moderate	Moderate to Minor	Minor
Open Access Land (OAL)						
Atherington	High	Negligible-Zero	Minor	No Effect	No Effect	No Effect
Barpham Hill	High	Low	Moderate	Minor	Minor	No Effect
Patching Hill	High	Negligible-Zero	Minor	No Effect	No Effect	No Effect
OAL 1	High	Negligible-Zero	Minor	No Effect	No Effect	No Effect
Sullington Hill	High	High	Major	Minor	Minor	No Effect
Chantry Hill	High	Negligible-Zero	Minor	No Effect	No Effect	No Effect

Visual Receptor	Sensitivity	Construction (3.5 Years)		Operation and maintenance		
		Magnitude of change	Level of effect*	Level of effect Year 1	Level of effect Year 5	Level of effect Year 10
Washington Common	High	Negligible-Zero	Minor	No Effect	No Effect	No Effect
Chanctonbury Hill	High	Negligible-Zero	Minor	No Effect	No Effect	No Effect
Horsebridge Common	High	Negligible-Zero	Minor	No Effect	No Effect	No Effect
Bine's Green	High	Negligible-Zero	Minor	No Effect	No Effect	No Effect
Recreational and Tourist Destinations						
Littlehampton Golf Club	High	Negligible-Zero	Minor	No Effect	No Effect	No Effect
Littlehampton West Beach (Climping Beach)	High	Medium	Major / Moderate	No Effect	No Effect	No Effect
Littlehampton East Beach	High	Zero	No effect	No effect	No effect	No effect
Climping Camp Site	High	Medium	Major / Moderate	No Effect	No Effect	No Effect

Visual Receptor	Sensitivity	Construction (3.5 Years)		Operation and maintenance		
		Magnitude of change	Level of effect*	Level of effect Year 1	Level of effect Year 5	Level of effect Year 10
Climping Caravan Park	High	Medium	Major / Moderate	No Effect	No Effect	No Effect
Brookside Caravan Park	High	Negligible-Zero	Minor	No Effect	No Effect	No Effect
Arundel Castle	High	Negligible-Zero	Minor	No Effect	No Effect	No Effect
Chanctonbury Ring	High	Negligible-Zero	Minor	No Effect	No Effect	No Effect
Washington Recreation Ground / Allotments	High	Medium-low	Minor to Moderate	No Effect	No Effect	No Effect
Washington Caravan Park	High	Medium-high to Medium	Major / Moderate to Moderate	No Effect	No Effect	No Effect

Table 31-19 Summary of Public Rights of Way (PRoW) and Open Access Land along the Onshore cable corridor

PRoW No.	Construction Effect	Duration < 3.5 Year Construction Phase	Operational Effect (related to vegetation reinstatement)		
			Year 1	Year 5	Year 10
Part 1: Climbing to SDNP					
Arun Way / England Coastal Path National Trail (part) PRoW 829 and Open Access Land	Major / Moderate (400m)	3.5 Years (Landfall construction compound)	No Effect	N/A	N/A
PRoW 174	Major to Major / Moderate (500m of route)	Progressive reinstatement	Minor to None	N/A	N/A
PRoW 173	Major to Major / Moderate (400m of route)	3.5 Years (Landfall construction compound)	Minor to None	N/A	N/A
PRoW 197	Major / Moderate (1km)	3.5 Years (Landfall construction compound)	No Effect	N/A	N/A
PRoW 172	Major / Moderate to Moderate (500m)	3.5 Years (Landfall construction compound)	No Effect	N/A	N/A
Arun Way (part) PRoW 169	Moderate (400m)	3.5 Years (Landfall construction compound)	No Effect	N/A	N/A

PRoW No.	Construction Effect	Duration < 3.5 Year Construction Phase	Operational Effect (related to vegetation reinstatement)		
			Year 1	Year 5	Year 10
PRoW 168	Major to Major / Moderate (1.2km)	3.5 Years (Climping construction compound)	Moderate	Minor to None	N/A
Arun Way (part) PRoW 3110	Moderate to Minor (600m)	3.5 Years (Landfall construction compound)	No Effect	N/A	N/A
PRoW 206	Major to Major / Moderate (1km of route)	Progressive reinstatement	Minor to None	N/A	N/A
PRoW 206 and 200/5	Moderate to Minor	Progressive reinstatement	No Effect	N/A	N/A
PRoW 2165	Major (170m)	Progressive reinstatement	Moderate	Minor	N/A
PRoW 2163/1	Major (400m)	Progressive reinstatement	Minor	Minor to None	Minor
PRoW 2207	Minor	N/A	No Effect	N/A	N/A
PRoW 2163	Major to Major / Moderate (1km)	Progressive reinstatement	Minor to None	Minor to None	N/A
PRoW 2202/1	Major to Major / Moderate (1km)	Progressive reinstatement	Minor to None	Minor to None	Minor

PRoW No.	Construction Effect	Duration < 3.5 Year Construction Phase	Operational Effect (related to vegetation reinstatement)		
			Year 1	Year 5	Year 10
PRoW 3096	Minor	N/A	No Effect	N/A	N/A
PRoW 2200	Major to Major / Moderate (600m)	Progressive reinstatement	Minor to None	Minor to None	N/A
PRoW 2201	Minor	N/A	No Effect	N/A	N/A
PRoW 2199	Major to Major / Moderate (250m)	Progressive reinstatement	Minor	Minor to None	Minor
PRoW 2198	Major (25m)	Progressive reinstatement	Major	Moderate	Minor
PRoW 2176	Major to Major / Moderate (230m)	Progressive reinstatement	Moderate	Moderate	Minor
Part 2: SDNP					
PRoW 2190	Major to Major / Moderate (420m)	Progressive reinstatement	Major	Moderate	Minor
PRoW 2188	Major (100m)	Progressive reinstatement	Major	Moderate	Minor
PRoW 2187 and 2787/1	Major to Major / Moderate (450m)	Progressive reinstatement	Moderate	Moderate	Minor

PRoW No.	Construction Effect	Duration < 3.5 Year Construction Phase	Operational Effect (related to vegetation reinstatement)		
			Year 1	Year 5	Year 10
PRoW 2186	Moderate (200m)	Progressive reinstatement	Minor	Minor	No Effect
PRoW 2208	Major (100m)	Progressive reinstatement	Major	Moderate	Minor
PRoW 2174/1	Major (100m) and Major / Moderate (150m)	Progressive reinstatement	Major / Moderate	Minor	Minor
Monarch's Way (part) PRoW 2175, 2211, 2180/1, 2185 and 2210	Michelgrove Park: Moderate	Progressive reinstatement	Minor	Minor	No Effect
PRoW 2208/1	Major (100m)	Progressive reinstatement	Major / Moderate	Moderate	Minor
PRoW 2260 and Open Access Land (OAL 1)	Major / Moderate (600m)	Progressive reinstatement	Moderate	Moderate	Minor
Monarch's Way (part) PRoW 2208,	Minor	Permanent change adding passing places to access to Michelgrove Park.	No Effect	N/A	N/A

PRoW No.	Construction Effect	Duration < 3.5 Year Construction Phase	Operational Effect (related to vegetation reinstatement)		
			Year 1	Year 5	Year 10
2208/1, 2174 and 2263					
Monarch's Way (part) PRoW 2264 and 2091	Moderate to Minor	Progressive reinstatement	Minor to None	N/A	N/A
PRoW 2262 and 2260/1	Major / Moderate (1.2km)	Progressive reinstatement	Minor to None	N/A	N/A
PRoW 2208/2	Moderate (800m)	Progressive reinstatement	Minor to None	N/A	N/A
PRoW 2209	Major to Major / Moderate (800m)	Progressive reinstatement	Minor to None	N/A	N/A
PRoW 2173	Major to Major / Moderate (1km)	Progressive reinstatement	Minor to None	N/A	N/A
PRoW 2282/1	Major (1.2km)	Progressive reinstatement	Minor to None	N/A	N/A
PRoW 2092	Major to Major / Moderate (800m)	Progressive reinstatement	Minor to None	N/A	N/A
PRoW 2260	Moderate (1.4km)	Progressive reinstatement	Minor to None	N/A	N/A

PRoW No.	Construction Effect	Duration < 3.5 Year Construction Phase	Operational Effect (related to vegetation reinstatement)		
			Year 1	Year 5	Year 10
PRoW 2693 and 2673 (Byway) – see South Downs Way assessment in Section 1-4.					
PRoW 2108/1, 2689 and 2282 and Open Access Land at Sullington Hill (OAL 2)	Major to Major / Moderate (1km)	Progressive reinstatement	Moderate	Moderate to Minor	Minor
PRoW 2671/1, 2684 and 2683	Minor (1.3km)	N/A	No effect	N/A	N/A
PRoW 2686	Minor (500m)	N/A	No effect	N/A	N/A
PRoW 2691	Minor (1.2km)	N/A	No effect	N/A	N/A
PRoW 2665	Major to Major / Moderate (750m)	Progressive reinstatement	Moderate	Moderate to Minor	Minor
PRoW 2697	Major (<150m)	Progressive reinstatement	Major	Moderate	Minor
PRoW 2666	Moderate to Minor (550m)	Progressive reinstatement	Minor	Minor	Minor

PRoW No.	Construction Effect	Duration < 3.5 Year Construction Phase	Operational Effect (related to vegetation reinstatement)		
			Year 1	Year 5	Year 10
PRoW 2698 and 3181	Minor	N/A	No effect	N/A	N/A
PRoW 2623 and Open Access Land	Minor	N/A	No effect	N/A	N/A
PRoW 2699	Minor	N/A	No effect	N/A	N/A
PRoW 2703	Major to Major / Moderate (180m)	Progressive reinstatement	Moderate	Moderate	Minor
PRoW 2089/2	Minor	Progressive reinstatement	No effect	N/A	N/A
Part 3: SDNP to Oakendene / Bolney					
PRoW 2710	Major to Major / Moderate (375m)	Progressive reinstatement	Moderate	Moderate	Minor
PRoW 2709	Major (150m)	N/A	Moderate	Moderate	Minor
PRoW 2617, 2616 and 2614	Minor to No effect	N/A	No effect	N/A	N/A

PRoW No.	Construction Effect	Duration < 3.5 Year Construction Phase	Operational Effect (related to vegetation reinstatement)		
			Year 1	Year 5	Year 10
PRoW 2711	Major (230m)	Progressive reinstatement	Major	Moderate	Minor
PRoW 2514	Major (180m)	Progressive reinstatement	Moderate	Moderate	Minor
PRoW 2594	Major / Moderate (460m)	Progressive reinstatement	Moderate	Moderate	Minor
PRoW 2589/1	Major (400m)	Progressive reinstatement	Moderate	Moderate	Minor
PRoW 2587	Minor	N/A	No effect	N/A	N/A
Horsebridge Common (Open Access Land)	Minor	N/A	No effect	N/A	N/A
PRoW 2588	Minor	Progressive reinstatement	No effect	N/A	N/A
PRoW 2583/2	Minor	N/A	No effect	N/A	N/A
PRoW 2519	Major / Moderate to Moderate (1km)	Progressive reinstatement	Moderate	Moderate	Minor

PRoW No.	Construction Effect	Duration < 3.5 Year Construction Phase	Operational Effect (related to vegetation reinstatement)		
			Year 1	Year 5	Year 10
PRoW 2520	Major / Moderate to Moderate (300m)	Progressive reinstatement	Moderate	Moderate	Minor
PRoW 3200	Minor	N/A	No Effect	N/A	N/A
PRoW 2525, 3517, 2530 and 2531	Minor	N/A	No Effect	N/A	N/A
PRoW 2372	Minor	N/A	No Effect	N/A	N/A
PRoW 2372	Moderate (250m)	Progressive reinstatement	Moderate	Moderate	Minor
PRoW 2372/1, 2372 and 2372/2	Minor	N/A	No Effect	N/A	N/A
PRoW 2374	Major (400m)	Progressive reinstatement	Moderate	Moderate	Minor
PRoW 2808	Major / Moderate (10m)	N/A	No Effect	N/A	N/A
PRoW 1841	Major / Moderate (830m)	Progressive reinstatement	Moderate	Moderate	Minor

PRoW No.	Construction Effect	Duration < 3.5 Year Construction Phase	Operational Effect (related to vegetation reinstatement)		
			Year 1	Year 5	Year 10
PRoW 2800	Major / Moderate (150m)	N/A	No Effect	N/A	N/A
PRoW 1774	Major (150m)	Progressive reinstatement	Minor	Minor	Minor
PRoW 1781	Major / Moderate (830m)	Progressive reinstatement	Moderate	Moderate	Minor
PRoW 1776/1	Major / Moderate (150m)	Progressive reinstatement	Moderate	Moderate	Minor
PRoW 1782	Major / Moderate (150m)	Progressive reinstatement	Moderate	Moderate	Minor
PRoW 1783 and 1784	Major / Moderate (150m)	Progressive reinstatement	Moderate	Moderate	Minor
PRoW 1730	Major / Moderate (80m)	Progressive reinstatement	Moderate	Moderate	Minor
PRoW 1787	Major to Major / Moderate (175m)	Progressive reinstatement	Moderate	Moderate	Minor
PRoW 1789 (East)	Minor	N/A	No Effect	N/A	N/A
PRoW 1789 (West)	Major to Major / Moderate (150m)	Progressive reinstatement	Major / Moderate	Moderate	Minor

PRoW No.	Construction Effect	Duration < 3.5 Year Construction Phase	Operational Effect (related to vegetation reinstatement)		
			Year 1	Year 5	Year 10
PRoW 1775 and 1777	Minor	N/A	No Effect	N/A	N/A
PRoW 1788	Minor	N/A	No Effect	N/A	N/A
PRoW 1786	Moderate (400m)	N/A	No Effect	N/A	N/A
PRoW 36Bo	Minor	N/A	No Effect	N/A	N/A
PRoW 1T	Major / Moderate (125m)	Progressive reinstatement	Moderate	Moderate	Minor
PRoW 8T	Moderate to Minor (100m)	N/A	No Effect	N/A	N/A
PRoW 34Bo	Minor	N/A	No effect	N/A	N/A

Table 31-20 Summary of assessment of residual effects for air quality

Activity and impact	Magnitude of impact	Receptor and sensitivity or value	Embedded environmental measures	Assessment of residual effect (significance)
Construction				
Emissions of air pollutants from construction traffic on roads	Negligible	In accordance with Air Quality Objectives (AQO)	None	Negligible
Emissions of air pollutants from construction equipment on site	Minor adverse to Negligible	In accordance with AQO	None	Minor adverse to Negligible (Not significant)
Emissions of dust from construction	Not applicable	Human receptors – High . Ecological receptors – Medium	C-20, C-24, C-33, C-106, C-114 and Table 19-36 of Chapter 19 Air quality, Volume 2 of the ES (Document Reference: 6.2.19).	Negligible
Emissions of odour from construction	Low	High	C-6 and C-72	Minor adverse (Not Significant)
Decommissioning				
Emissions of air pollutants from traffic on roads	Negligible	In accordance with AQO	None	Negligible
Emissions of air pollutants from equipment on site	Minor adverse to Negligible	In accordance with AQO	None	Minor adverse to Negligible (Not significant)

Activity and impact	Magnitude of impact	Receptor and sensitivity or value	Embedded environmental measures	Assessment of residual effect (significance)
Emissions of dust from decommissioning	Not applicable	Human receptors – High . Ecological receptors – Medium	C-24 and Table 19-39 of Chapter 19 Air quality, Volume 2 of the ES (Document Reference: 6.2.19).	Negligible

Table 31-21 Summary of assessment of residual effects for soils and agriculture

Activity and impact	Magnitude of change	Receptor and sensitivity or value	Embedded environmental measures	Assessment of residual effect (significance)
Construction phase				
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	High	C-6, C-11, C-12, C-13, C-113, C-132, C-183	Moderate Adverse (Not Significant)
Soil erosion due to inappropriate storage and/or construction activities	Low	High	C-7, C-11, C-12, C-132, C-133, C-183	Moderate Adverse (Not Significant)
Temporary loss of topsoil due to removal associated with construction activities	Low	High	C-7, C-11, C-12, C-13, C-183	Moderate Adverse (Not Significant)
Damage to (agricultural) land drainage systems due to construction activities, including physical damage to clay / other	Very low to Low	High	C-28	Minor Adverse (Not Significant)

Activity and impact	Magnitude of change	Receptor and sensitivity or value	Embedded environmental measures	Assessment of residual effect (significance)
drains and changes to soil structure affecting land drainage				
Temporary loss of, or damage to, agricultural land – potential for ALC grade to be lowered	Very low to Low	High	C-7, C-11, C-19, C-133, C-183	Minor Adverse (Not Significant)
Permanent loss of soil/agricultural land due to permanent development – construction of onshore infrastructure (substation, substation permanent access, and joint bays) due to hard development – soil sealing or permanent removal	Very low	High	C-183	Minor Adverse (Not Significant)
Farming economy	Low	Low	N/A	Not significant
Individual farms	Low	High	N/A	Not significant

Table 31-22 Summary of assessment of residual effects for noise and vibration

Activity and impact	Magnitude of change	Receptor and sensitivity or value	Embedded environmental measures	Assessment of residual effect (significance)
Construction phase – noise				
Temporary noise effects from the construction, operation and deconstruction of the temporary construction compounds	Medium -Very Low	Medium (residential)/ High (non-residential)	C-22, C-26, C-33, C-263	Negligible to Minor adverse (Not Significant) (residential) Minor adverse (Not Significant) (non-residential)
Temporary noise effects from the landfall works and trenchless crossings	High - Very Low	Medium (residential)/ High (non-residential)	C-26, C-33, C-263	Negligible to Minor adverse (Not Significant) (residential) Minor adverse (Not Significant) (non-residential)
Temporary noise effects from onshore substation construction	Very Low	Medium (residential)	C-22, C-26, C-33, C-263	Minor adverse (Not Significant)
Temporary noise effects from extension works at the existing National Grid Bolney substation	Very Low	Medium (residential)	C-22, C-26, C-33, C-263	Minor adverse (Not Significant)

Activity and impact	Magnitude of change	Receptor and sensitivity or value	Embedded environmental measures	Assessment of residual effect (significance)
Temporary noise effects from onshore cable installation (trenched)	Low	Medium (residential)/ High (non-residential)	C-22, C-26, C-33, C-263	Minor adverse (Not Significant) (residential) Minor adverse (Not Significant) (non-residential)
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, C-263	Negligible to Minor adverse (Not Significant) (residential) Minor adverse (Not Significant) (non-residential)
Temporary noise effects from construction road traffic noise	Very Low – Low	Medium (residential)/ High (non-residential)	C-160, C-263	Negligible / Minor adverse (Not Significant) (residential) Minor adverse (Not Significant) (non-residential)
Construction phase – vibration				
Temporary vibration effects from the landworks and trenchless crossings	Low - Medium	Medium (residential)/	C-22, C-33, C-263	Minor adverse (Not Significant) (residential)

Activity and impact	Magnitude of change	Receptor and sensitivity or value	Embedded environmental measures	Assessment of residual effect (significance)
Temporary vibration effects from construction road traffic	Medium	Medium (residential)	C-160, C-263	Minor adverse (Not Significant)
Operational phase - noise				
Onshore Substation noise	Low	Medium (residential)	C-231	Minor adverse (Not Significant)
Decommissioning phase – noise				
Onshore substation decommissioning noise	Very Low	Medium (residential)	C-22, C-26, C-33, C-263	Minor adverse (Not Significant)

Table 31-23 Summary of assessment of residual effects for terrestrial ecology and nature conservation

Ecological feature	Magnitude of effect	Importance	Embedded environmental measures	Assessment of residual effect (significance)
Arun Valley Ramsar site	Negligible	International	C-103, C-117	Not Significant
Arun Valley Special Protected Area (SPA)	Negligible	International	C-103, C-117	Not Significant
The Mens Special Area of Conservation (SAC)	Negligible	International	C-105	Not Significant
Amberley Wild Brooks Site of Special Scientific Interest (SSSI)	Negligible	National	C-103, C-117	Not Significant
Pulborough Brooks SSSI	Negligible	National	C-103, C-117	Not Significant
Climping Beach SSSI	Negligible	National	C-112, C-117	Not Significant
Littlehampton Golf Course and Atherington Local Wildlife Site (LWS)	Negligible	County	C-112	Not Significant
Sullington Hill LWS	Negligible	County	C-24, C-114	Not Significant

Ecological feature	Magnitude of effect	Importance	Embedded environmental measures	Assessment of residual effect (significance)
Ancient woodland	Negligible	National	C-103, C-115, C-216, C-220	Not Significant
Veteran trees	Negligible	National	C-174, C-220	Not Significant
Woodland	Low to Negligible	Local to national	C-12, C-104, C-115, C-199, C-204, C-220	Not Significant
Coastal and floodplain grazing marsh	Low to Negligible	National	C-5, C-103, C-117	Not Significant
Neutral semi-improved grassland	Low to Negligible	National	C-12, C-103, C-199	Not Significant
Native hedgerows (species rich and species poor)	Low to Very Low	National	C-103, C-104, C-115, C-220	Not Significant
Streams and permanently wet ditches	Low	National	C-17, C-103, C-199	Not Significant
Badgers	Very Low to Negligible	Local	C-26, C-105, C-207, C209	Not Significant

Ecological feature	Magnitude of effect	Importance	Embedded environmental measures	Assessment of residual effect (significance)
Bats	Low to Very Low	National	C-22, C-103, C-105, C-115, C-211, C-220, C-291	Not Significant
Hazel dormouse	Low to Very Low	International	C-26, C-103, C-105, C-232, C-291, C-299	Not Significant
Great crested newt	Very Low to Negligible	International	C-105	Not Significant
Reptiles	Negligible	National	C-103, C-208	Not Significant
Breeding birds	Low	International to local	C-21, C-103, C-105, C-115, C-203, C-204, C-207, C-220	Not Significant
Wintering birds	Negligible	International to local	C-103, C-117	Not Significant
Water vole	Very Low to Negligible	National	C-105, C-182, C-210, C-255	Not Significant

Table 31-24 Summary of assessment of residual effects for transport

Activity and Impact	Magnitude of change	Receptor (highway link) and sensitivity	Embedded environmental Measures	Assessment of residual effect (significance)
Construction phase				
Severance	3 Links where GEART (IEA, 1993) thresholds are triggered	3 – Medium 13 – Medium 26 – Low	C-1, C-2, C-18, C-157, C-158, C-159, C-165, C-166, C-169	Negligible (Not Significant)
Driver delay	3 Links where GEART (IEA, 1993) thresholds are triggered	3 – Medium 13 – Medium 26 – Low	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	3 Links where GEART (IEA, 1993) thresholds are triggered	3 – Medium 13 – Medium 26 – Low	C-1, C-2, C-18, C-157, C-158, C-159, C-165, C-166, C-169	Negligible (Not Significant)
Accidents and safety	3 Links where GEART (IEA, 1993) thresholds are triggered	3 – Medium 13 – Medium 26 – Low	C-1, C-2, C-18, C-157, 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 (highway link) and sensitivity	Embedded environmental Measures	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, C-165, C-169	Negligible (Not Significant)
Driver delay	Negligible	Low	C-18, C-32, C-157, C-158, C-159, 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, C-165, C-169	Negligible (Not Significant)
Accidents and safety	Negligible	Low	C-18, C-32, C-157, C-158, C-159, C-165, C-169	Negligible (Not Significant)

Table 31-25 Summary of assessment of residual effects for ground conditions

	Baseline Assessment			Assessment with Rampion 2			Change in Risk (Significance)
	Likelihood	Consequence	Risk	Likelihood	Consequence	Risk	
Construction¹							
GC-C-1 and GC-C-2 Mobilisation of contamination to human health and controlled waters receptors from construction activities located outside of potential sources of contamination	Unlikely	Minor / Mild	Very low	Unlikely	Minor / Mild	Very low	Negligible (Not Significant)
GC-C-1	Likely	Medium	Moderate	Likely	Medium	Moderate	Negligible

¹ Based on the findings of the assessment presented in [Section 24.9: Assessment of effects: Construction phase](#) of [Chapter 24: Ground conditions, Volume 2](#) of the ES (Document Reference: 6.2.24), the construction linkage references GC-C-1 to GC-C-3 have been split in this table to separately summarise the assessment of effects from where the onshore cable corridor passes through potential sources of contamination to those from outside of potential sources of contamination. Linkage reference GC-C-6 has also been split to separately summarise the assessment of effects from where the onshore cable corridor passes through areas of moderate to high UXO hazard to those in low UXO hazard areas.

	Baseline Assessment			Assessment with Rampion 2			Change in Risk (Significance)
	Likelihood	Consequence	Risk	Likelihood	Consequence	Risk	
Mobilisation of contamination to human health receptors from construction activities located on, or adjacent to landfills and other potentially contaminated sites (where onshore cable corridor passes through potential sources of contamination)							(Not significant)
GC-C-2 Mobilisation of contamination to human health receptors from construction activities located on, or adjacent to landfills and other potentially	Unlikely	Severe	Moderate / Low	Unlikely	Severe	Moderate / Low	Negligible (Not significant)

	Baseline Assessment			Assessment with Rampion 2			Change in Risk (Significance)
	Likelihood	Consequence	Risk	Likelihood	Consequence	Risk	
contaminated sites (where onshore cable corridor passes through potential sources of contamination)							
GC-C-3 Build-up of ground gases from construction activities located outside of potential sources of contamination	Unlikely	Severe	Moderate / Low	Unlikely	Severe	Moderate / Low	Negligible (Not Significant)
GC-C-3 Build-up of ground gases from construction activities located on, or adjacent to landfills and other potentially contaminated sites (where onshore cable	Unlikely	Severe	Moderate / Low	Unlikely	Severe	Moderate / Low	Negligible (Not significant)

	Baseline Assessment			Assessment with Rampion 2			Change in Risk (Significance)
	Likelihood	Consequence	Risk	Likelihood	Consequence	Risk	
corridor passes through potential sources of contamination)							
GC-C-4 Damage to infrastructure from construction activities located on, or adjacent to landfills and other potentially contaminated sites	Unlikely	Medium	Low	Unlikely	Medium	Low	Negligible (Not significant)
GC-C-5 Damage to geological sites from construction activities located near to sites of geological importance	Unlikely	Medium	Low	Unlikely	Medium	Low	Negligible (Not significant)

	Baseline Assessment			Assessment with Rampion 2			Change in Risk (Significance)
	Likelihood	Consequence	Risk	Likelihood	Consequence	Risk	
GC-C-6 Damage to property and infrastructure from UXO encounter during construction activities (where onshore cable corridor passes through low UXO hazard areas)	N/A			N/A ²			N/A
GC-C-6 Damage to property and infrastructure from UXO encounter during construction activities (where onshore cable corridor passes)	N/A ²			N/A			N/A

² As outlined in [Section 24.8: Methodology for ES assessment](#) of [Chapter 24: Ground conditions, Volume 2](#) of the ES (Document Reference: 6.2.24), the assessment considers the overall risk from UXO based on the level of hazard presented in the UXO Desk Study [Annex C, Appendix 24.1: Phase 1 geo-environmental desk study, Volume 4](#) of the ES (Document Reference: 6.4.24.1). Therefore, a separate baseline assessment is not applicable to this linkage.

	Baseline Assessment			Assessment with Rampion 2			Change in Risk (Significance)
	Likelihood	Consequence	Risk	Likelihood	Consequence	Risk	
through moderate to high UXO hazard areas)							
GC-C-7 Accidental spillages and leaks impacting controlled waters during construction activities	Unlikely	Mild	Very Low	Unlikely	Mild	Very Low	Negligible (Not significant)
Operation and maintenance							
GC-O-1 Risks to human health from presence of artificial ground disturbed landfill or other excavated and reused material	Likely	Medium	Moderate	Likely	Medium	Moderate	Negligible (Not significant)
GC-O-2 Risks to land and property receptors from presence of artificial ground,	Unlikely	Mild	Very Low	Unlikely	Mild	Very Low	Negligible (Not significant)

	Baseline Assessment			Assessment with Rampion 2			Change in Risk (Significance)
	Likelihood	Consequence	Risk	Likelihood	Consequence	Risk	
disturbed landfill or other excavated and reused material							
GC-O-3 Risks to controlled waters from presence of artificial ground, disturbed landfill or other excavated and reused material	Unlikely	Severe	Moderate / Low	Unlikely	Severe	Moderate / Low	Negligible (Not significant)
GC-O-4 Accidental spillages and leaks impacting controlled waters during operation and maintenance activities	Unlikely	Mild	Very Low	Unlikely	Mild	Very Low	Negligible (Not significant)
Decommissioning							
GC-D-1 Risks to controlled waters from	Likely	Medium	Moderate	Likely	Medium	Moderate	Negligible (Not Significant)

	Baseline Assessment			Assessment with Rampion 2			Change in Risk (Significance)
	Likelihood	Consequence	Risk	Likelihood	Consequence	Risk	
mobilisation of contamination during decommissioning activities							
GC-D-2 Risks to human health from mobilisation of contamination during decommissioning activities	Unlikely	Severe	Moderate / Low	Unlikely	Severe	Moderate / Low	Negligible (Not significant)
GC-D-3 Accidental spillages and leaks impacting controlled waters during decommissioning activities	Unlikely	Mild	Very Low	Unlikely	Mild	Very Low	Negligible (Not significant)

Table 31-26 Summary of assessment of residual effects for minerals safeguarding

Receptor	Sensitivity of receptor	Magnitude of effect	Level of effect	Significance of effect
Construction activities located within or near to minerals sites, preferred areas or safeguarding areas (GC-C-8)				
Building stone MSA	Medium	Low	Minor Negative	Not Significant
Brick clay Mineral Safeguarding Area (MSA)	Medium	Negligible	Negligible	Not Significant
Soft sand MSA	Medium	High	Major Negative	Significant
Chalk MSA	Medium	No Effect	No Effect	Not Significant
Minerals Consultation Areas (Washington /Hampers lane Sand Pit, Sandgate Park Quarry, Chanty Sand Pit and	High	No Effect	No Effect	Not Significant

Receptor	Sensitivity of receptor	Magnitude of effect	Level of effect	Significance of effect
Washington Chalk Quarry)				
Minerals Consultation Areas	High	Negligible	Minor Negative	Not Significant
Rock Common Quarry				
Allocated minerals sites	High	No Effect	No Effect	Not Significant
Operation and maintenance of permanent infrastructure located within or near to minerals sites, preferred areas or safeguarding areas (GC-O-5)				
<p>The likely significant effects for minerals safeguarding only occur where land is temporarily or permanently taken for the onshore elements of the Proposed Development. Therefore, for the Building Stone, Brick Clay and Chalk MSAs, and the MCAs, the potential for significant mineral safeguarding effects to occur following completion of the temporary construction activities (i.e. in the operation and maintenance phase) is considered to have been taken into account in the construction phase assessment.</p>				
Soft Sand MSA	Medium	High	Major Negative	Significant
Decommissioning of permanent infrastructure located within or near to minerals sites, preferred areas or safeguarding areas (GC-D-4)				

Receptor	Sensitivity of receptor	Magnitude of effect	Level of effect	Significance of effect
Soft Sand MSA	Medium	Negligible	Minor Negative	Not Significant

Table 31-27 Summary of historic environment assessment of residual effects for construction phase

Receptor	Summary of predicted effects	Heritage significance (sensitivity)	Magnitude of change	Significance of effect
<u>Landfall and onshore cable corridor</u>				
Historic landscape character	Partial loss or disturbance to historic landscape features	Low	Low	Minor adverse (Not Significant)
Direct effects on heritage assets				
<i>Zone 1: South Coast Plain</i>				
Palaeoenvironmental deposits	Loss of or disturbance to archaeological remains	Medium to High	Low	Moderate adverse (Not Significant)
Buried/submerged prehistoric landscapes	None	Low to Medium	None	No effect (Not Significant)
Cudlow DMV (MWS3384)	None	Medium	None	No effect (Not Significant)
Atherington DMV (MWS3385)	None	Medium	None	No effect (Not Significant)
WWII coastal defence features	None	Medium	None	No effect (Not Significant)

Receptor	Summary of predicted effects	Heritage significance (sensitivity)	Magnitude of change	Significance of effect
Site of former WW2 Anti-Aircraft Artillery (MWS7123)	Loss of or disturbance to archaeological remains	Very Low	Low	Negligible adverse (Not Significant)
Site of Common Barn Historic Outfarm (MWS9869)	None	Very Low	None	No effect (Not Significant)
Undated possible enclosure (4_1)	Loss of or disturbance to archaeological remains	Low to Medium	Low	Minor adverse (Not Significant)
Undated possible enclosure (5_1)	None	Low to Medium	No change	No effect (Not Significant)
Undated possible archaeology (6_1)	Loss of or disturbance to archaeological remains	Low to Medium	Low	Minor adverse (Not Significant)
Post medieval agriculture and land division features	Loss of or disturbance to archaeological remains	Low	Very Low	Negligible adverse (Not Significant)
Medieval earthworks E and SE of St Mary's Church (National Heritage List for England (NHLE) 1005828, MWS3371)	None	High	None	No effect (Not Significant)
Early medieval settlement deposits	Loss of or disturbance to archaeological remains	Low to Medium	Low	Minor adverse (Not Significant)

Receptor	Summary of predicted effects	Heritage significance (sensitivity)	Magnitude of change	Significance of effect
and features west of Courtwick Lane				
Iron Age and Roman remains at Brook Barn Farm	Loss of or disturbance to archaeological remains	Low to Medium	Low	Minor adverse (Not Significant)
Undated possible enclosures (34_1)	Loss of or disturbance to archaeological remains	Low to Medium	Low	Minor adverse (Not Significant)
Undated possible archaeological remains (34_2), (34_3) and (34_4)	Loss of or disturbance to archaeological remains	Low to Medium	Low	Minor adverse (Not Significant)
Undated possible enclosures or settlement (38_1, 38_2 and 38_3)	Loss of or disturbance to archaeological remains	Low to High	Medium	Major adverse (Significant)
Roman road from Chichester to Brighton	Loss of or disturbance to archaeological remains	Low to Medium	Low	Minor adverse (Not Significant)
Cropmarks south of A27 Arundel Road (MWS3544 and MWS3545)	Loss of or disturbance to archaeological remains	Low to Medium	Low	Minor adverse (Not Significant)

Receptor	Summary of predicted effects	Heritage significance (sensitivity)	Magnitude of change	Significance of effect
Possible site of post medieval brick kiln (MWS3543)	Loss of or disturbance to archaeological remains	Low	Medium	Minor adverse (Not Significant)
Roman road from Chichester to Brighton	Loss of or disturbance to archaeological remains	Low to Medium	Low	Minor adverse (Not Significant)
<i>Other previously unrecorded archaeological remains in Zone 1: South Coast Plains</i>				
Palaeolithic evidence	Loss of or disturbance to archaeological remains	Low to High	Low	Minor to Moderate adverse (Not Significant)
Mesolithic evidence	Loss of or disturbance to archaeological remains	Low to High	Low	Minor to Moderate adverse (Not Significant)
Neolithic evidence	Loss of or disturbance to archaeological remains	Low to Medium	Low	Minor adverse (Not Significant)
Bronze Age evidence	Loss of or disturbance to archaeological remains	Low to Medium	Low	Minor adverse (Not Significant)
Iron Age and Romano-British evidence	Loss of or disturbance to archaeological remains	Low to Medium	Low	Minor adverse (Not Significant)
Medieval evidence	Loss of or disturbance to archaeological remains	Low to Medium	Low	Minor adverse (Not Significant)

Receptor	Summary of predicted effects	Heritage significance (sensitivity)	Magnitude of change	Significance of effect
Post medieval evidence	Loss of or disturbance to archaeological remains	Very Low	Low	Negligible adverse (Not Significant)
<i>Zone 2: South Downs</i>				
Palaeoenvironmental deposits	Loss of or disturbance to archaeological remains	Medium	Low	Minor adverse (Not Significant)
Roman road from Chichester to Brighton	Loss of or disturbance to archaeological remains	Low to Medium	Low	Minor adverse (Not Significant)
Site of a former brickyard, Hammer Pot Field (MWS5726)	Loss of or disturbance to archaeological remains	Low	Low	Minor adverse (Not Significant)
Probable post medieval and modern extraction pits in the vicinity of Angmering Park and Michelgrove Park	Loss of or disturbance to archaeological remains	Low	Very Low	Negligible adverse (Not Significant)
Undated possible archaeological features south of Angmering Park Farm (Field 052)	Loss of or disturbance to archaeological remains	Low to medium	Low	Minor adverse (Not Significant)

Receptor	Summary of predicted effects	Heritage significance (sensitivity)	Magnitude of change	Significance of effect
Undated barrow type feature (62_1)	Loss of or disturbance to archaeological remains	Low to medium	Low	Minor adverse (Not Significant)
Undated probable field boundaries between KM13 and KM16	Loss of or disturbance to archaeological remains	Low to Medium	Low	Minor adverse (Not Significant)
Early medieval mortuary remains MWS2804	Loss of or disturbance to archaeological remains	Low to Medium	None	No Effect (Not Significant)
Bronze Age barrow MWS6581	Loss of or disturbance to archaeological remains	Low	Low	Minor adverse (Not Significant)
Bronze Age barrow MWS6592	Loss of or disturbance to archaeological remains	Low	Low	Minor adverse (Not Significant)
Circular mound features at Sullington Hill	Loss of or disturbance to archaeological remains	Low to Medium	Low	Minor adverse (Not Significant)
WWII military features	Loss of or disturbance to archaeological remains	Low	Low	Minor adverse (Not Significant)
Undated probable field boundaries or trackways at Sullington Hill	Loss of or disturbance to archaeological remains	Low	Low	Minor adverse (Not Significant)

Receptor	Summary of predicted effects	Heritage significance (sensitivity)	Magnitude of change	Significance of effect
Hill Barn Historic Outfarm MWS11506	None	Low	None	No Effect (Not Significant)
Barns Farm Historic Farmstead, Storrington MWS9337	None	N/A	None	No Effect (Not Significant)
Iron Age and Roman-British remains associated with Muntham Court scheduled site (NHLE 1005850, MWS5598)	Loss of or disturbance to archaeological remains	High	Low	Moderate adverse (Not Significant)
<i>Other previously unrecorded archaeological remains in Zone 2: South Downs</i>				
Palaeolithic and Mesolithic evidence	Loss of or disturbance to archaeological remains	Low to Medium	Low	Minor adverse (Not Significant)
Neolithic evidence - Flint mining and mortuary remains	Loss of or disturbance to archaeological remains	High	Medium	Major adverse (Significant)
Neolithic evidence - Settlement remains	Loss of or disturbance to archaeological remains	High	Medium	Major adverse (Significant)
Neolithic evidence - Isolated and residual artefacts	Loss of or disturbance to archaeological remains	Low to Medium	Low	Minor adverse (Not Significant)

Receptor	Summary of predicted effects	Heritage significance (sensitivity)	Magnitude of change	Significance of effect
Bronze Age evidence	Loss of or disturbance to archaeological remains	Medium to high	Low	Minor to Moderate adverse (Significant)
Early medieval evidence	Loss of or disturbance to archaeological remains	Medium to High	Low	Minor to Moderate adverse (Significant)
Medieval and post medieval evidence	Loss of or disturbance to archaeological remains	Very Low to Low	Low	Minor adverse (Not Significant)
Zone 3: Low Weald				
Palaeoenvironmental deposits outwith Adur Valley	Loss of or disturbance to archaeological remains	Low to Medium	Low	Minor adverse (Not Significant)
Hardham to Barcombe Mills Roman Road, the Greensand Way (ANA Horsham 078; Mid Sussex 044)	Loss of or disturbance to archaeological remains	Low to Medium	Low	Minor adverse (Not Significant)
Potential archaeological features near Buncton (Field 136)	Loss of or disturbance to archaeological remains	Low to Medium	Low	Minor adverse (Not Significant)

Receptor	Summary of predicted effects	Heritage significance (sensitivity)	Magnitude of change	Significance of effect
Undated earthwork remains (MWS7031) near Buncton	Loss of or disturbance to archaeological remains	Low to Medium	Low	Minor adverse (Not Significant)
Palaeoenvironmental deposits within Adur Valley	Loss of or disturbance to archaeological remains	Medium to High	Low	Minor to Moderate adverse (Not Significant)
Brightham's Farm Historic Farmstead (MWS9503)	None	Low	None	No Effect (Not Significant)
Blocques Farm Historic Farmstead (MWS9446)	None	Low	None	No Effect (Not Significant)
Undated circular features (184_1 and 185_1)	Loss of or disturbance to archaeological remains	Low to Medium	Low	Minor adverse (Not Significant)
Homelands Historic Farmstead (MWS11752)	None	Low	None	No Effect (Not Significant)
Shoreham to Horsham Railway (MWS5508)	Loss of or disturbance to archaeological remains	Low	Very Low	Negligible adverse (Not Significant)
Crateman's Farm Historic Farmstead	None	Low	None	No Effect (Not Significant)

Receptor	Summary of predicted effects	Heritage significance (sensitivity)	Magnitude of change	Significance of effect
(MWS9939, ANA Horsham 144)				
Dragons Farm Historic Farmstead (MWS10096)	None	Low	None	No Effect (Not Significant)
Undated possible archaeological features near Oakendene (Field 228)	Loss of or disturbance to archaeological remains	Low to Medium	Low	Minor adverse (Not Significant)
Late Iron Age to Roman rectangular field system, Bolney Substation (MWS15278)	Loss of or disturbance to archaeological remains	Low to Medium	Low	Minor adverse (Not Significant)
<i>Other previously unrecorded archaeological remains in Zone 3: Low Weald</i>				
Palaeolithic evidence	Loss of or disturbance to archaeological remains	Low to Medium	Low	Minor adverse (Not Significant)
Mesolithic evidence	Loss of or disturbance to archaeological remains	Low to Medium	Low	Minor adverse (Not Significant)
Neolithic evidence	Loss of or disturbance to archaeological remains	Low	Low	Minor adverse (Not Significant)

Receptor	Summary of predicted effects	Heritage significance (sensitivity)	Magnitude of change	Significance of effect
Bronze Age evidence	Loss of or disturbance to archaeological remains	Low to Medium	Low	Minor adverse (Not Significant)
Early to middle Iron Age	Loss of or disturbance to archaeological remains	Low	Low	Minor adverse (Not Significant)
Medieval and post medieval	Loss of or disturbance to archaeological remains	Very Low to Low	Low	Minor adverse (Not Significant)
Effects arising through change to setting of heritage assets				
Poling Conservation Area and Grade I and II Listed Buildings	Alteration to setting	High	Low	Moderate adverse (Not Significant)
Sullington Conservation Area and Grade I and II Listed Buildings	Alteration to setting	High	Very Low	Minor adverse (Not Significant)
Lyminster Conservation Area and Grade I and II Listed Buildings	Alteration to setting	High	Low	Moderate adverse (Not Significant)
Washington Conservation Area	Alteration to setting	High	Very Low	Minor adverse (Not Significant)
Grade II Listed Twineham Court	Alteration to setting	High	Very Low	Minor adverse (Not Significant)

Receptor	Summary of predicted effects	Heritage significance (sensitivity)	Magnitude of change	Significance of effect
Farmhouse (NHLE 1025579)				
Grade II Listed Dawe's Farmhouse (NHLE 1025759)	Alteration to setting	High	Very Low	Minor adverse (Not Significant)
Grade II Listed Farmgate House (NHLE 1026866)	Alteration to setting	High	Very Low	Minor adverse (Not Significant)
Grade II Listed Bines Farmhouse (NHLE 1026867)	Alteration to setting	High	Low	Moderate adverse (Not Significant)
Grade II Listed Old Priors (NHLE 1026871)	Alteration to setting	High	Very Low	Minor adverse (Not Significant)
Grade II Listed Guessgate Farmhouse (NHLE 1207154)	Alteration to setting	High	Very Low	Minor adverse (Not Significant)
Grade II Listed 1-4, Stocks Hill (NHLE 1027155)	Alteration to setting	High	Very Low	Minor adverse (Not Significant)

Receptor	Summary of predicted effects	Heritage significance (sensitivity)	Magnitude of change	Significance of effect
Grade II Listed Brook House (NHLE 1027161)	Alteration to setting	High	Low	Moderate adverse (Not Significant)
Grade II Listed the Frankland Arms Public House (NHLE 1027162)	Alteration to setting	High	Low	Moderate adverse (Not Significant)
Grade II Listed Tilley's Cottage (NHLE 1027163)	Alteration to setting	High	Very Low	Minor adverse (Not Significant)
Grade II Listed Green Farmhouse (NHLE 1027190)	Alteration to setting	High	Very Low	Minor adverse (Not Significant)
Grade II Listed Old Forge (NHLE 1027195)	Alteration to setting	High	Very Low	Minor adverse (Not Significant)
Grade II Listed Fern Cottage (NHLE 1027196)	Alteration to setting	High	Very Low	Minor adverse (Not Significant)
Grade II* Listed The Parish Church of St Mary (NHLE 1027198)	Alteration to setting	High	None	No Effect (Not Significant)

Receptor	Summary of predicted effects	Heritage significance (sensitivity)	Magnitude of change	Significance of effect
Grade II Listed Church House (NHLE 1027200)	Alteration to setting	High	None	No Effect (Not Significant)
Grade II Listed Rose Cottage (NHLE 1027201)	Alteration to setting	High	Very Low	Minor adverse (Not Significant)
Grade II Listed Chanctonbury Lodge (NHLE 1027239)	Alteration to setting	High	Very Low	Minor adverse (Not Significant)
Grade II Listed King's Barn (NHLE 1027089)	Alteration to setting	High	Low	Moderate adverse (Not Significant)
Grade II Listed Horsebrook Cottage (NHLE 1027261)	Alteration to setting	High	Very Low	Minor adverse (Not Significant)
Grade II Listed Pooks Farmhouse (NHLE 1027290) and Cottage In the grounds of Pooks Farmhouse to the southwest of the house (NHLE 1027291)	Alteration to setting	High	Very Low	Minor adverse (Not Significant)

Receptor	Summary of predicted effects	Heritage significance (sensitivity)	Magnitude of change	Significance of effect
Grade II Listed Potts Farmhouse (NHLE 1027292)	Alteration to setting	High	None	No Effect (Not Significant)
Grade II Listed Vadgers (NHLE 1027293)	Alteration to setting	High	None	No Effect (Not Significant)
Grade II Listed Morley (NHLE 1027330)	Alteration to setting	High	Low	Moderate adverse (Not Significant)
Grade II Listed Eatons Farmhouse (NHLE 1027436) and Granary at Eatons Farm to South East of The House (NHLE 1192196)	Alteration to setting	High	Low	Moderate adverse (Not Significant)
Grade II Listed Binesfield (NHLE 1027451)	Alteration to setting	High	Low	Moderate adverse (Not Significant)
Grade II Listed Southblows Farmhouse (NHLE 1027452)	Alteration to setting	High	Very Low	Minor adverse (Not Significant)

Receptor	Summary of predicted effects	Heritage significance (sensitivity)	Magnitude of change	Significance of effect
Grade II Listed Horsebridge House (NHLE 1027454)	Alteration to setting	High	Low	Moderate adverse (Not Significant)
Grade II Listed The Fountain Inn (NHLE 1027457)	Alteration to setting	High	Very Low	Minor adverse (Not Significant)
Grade II Listed Barn at Newhouse Buildings (NHLE 1027589)	Alteration to setting	High	None	No Effect (Not Significant)
Grade II Listed St John's Cottage (NHLE 1027590)	Alteration to setting	High	Low	Moderate adverse (Not Significant)
Grade II Listed Calceto (NHLE 1027606)	Alteration to setting	High	Very Low	Minor adverse (Not Significant)
Grade II Listed Buildings at Kent's Farm (NHLE 1027674, NHLE 1233446, NHLE 1233447)	Alteration to setting	High	Low	Moderate adverse (Not Significant)
Listed Buildings at North End (NHLE 1027627, NHLE	Alteration to setting	High	Very Low	Minor adverse (Not Significant)

Receptor	Summary of predicted effects	Heritage significance (sensitivity)	Magnitude of change	Significance of effect
1233900, NHLE 1353871)				
Grade I Listed The Parish Church Of St Mary (NHLE 1027640) and Grade II listed The Vicarage (NHLE 1027641)	Alteration to setting	High	Low	Moderate adverse (Not Significant)
Grade II Listed Barn to the west of nos 1 and 2 Church Farm Cottage (NHLE 1027642) and Church Farmhouse east and Church Farmhouse west (NHLE 1027643)	Alteration to setting	High	Very Low	Minor adverse (Not Significant)
Grade II Listed Decoy Cottage (NHLE 1027713)	Alteration to setting	High	Low	Moderate adverse (Not Significant)
Grade II Listed The Old Cottage (NHLE 1027714)	Alteration to setting	High	Very Low to Low	Minor to Moderate adverse (Not Significant)
Grade II Listed The 6 Bells Public House (NHLE 1027819)	Alteration to setting	High	Very Low	Minor adverse (Not Significant)

Receptor	Summary of predicted effects	Heritage significance (sensitivity)	Magnitude of change	Significance of effect
Grade II Listed Old Clayton (NHLE 1039953)	Alteration to setting	High	Very Low	Minor adverse (Not Significant)
Grade II Listed Pinland Farmhouse (NHLE 1181625)	Alteration to setting	High	None	No Effect (Not Significant)
Grade II Listed Clematis Cottage (NHLE 1182071) and Rose Cottage (NHLE 1354093)	Alteration to setting	High	Very Low	Minor adverse (Not Significant)
Grade II Listed South Cottage (NHLE 1182076)	Alteration to setting	High	Very Low	Minor adverse (Not Significant)
Grade II Listed Corner House How Man the Old Cottage (NHLE 1182115)	Alteration to setting	High	Very Low	Minor adverse (Not Significant)
Grade II Listed The Old Rectory (NHLE 1182442) and The Roundhouse, In The Grounds Of The Old Rectory (NHLE 1354110)	Alteration to setting	High	None	No Effect (Not Significant)

Receptor	Summary of predicted effects	Heritage significance (sensitivity)	Magnitude of change	Significance of effect
Grade II Listed Michelgrove Cottages (NHLE 1217075) and The Ruins of Michelgrove (NHLE 1353888)	Alteration to setting	High	Very Low	Minor adverse (Not Significant)
Grade II* Listed Peckhams (NHLE 1217152)	Alteration to setting	High	Low	Moderate adverse (Not Significant)
Grade I Listed The Parish Church of St Andrew (NHLE 1233989)	Alteration to setting	High	None	No Effect (Not Significant)
Grade II Listed Brookpits Cottage (NHLE 1276603) and Brookpits Manor (NHLE 1353858)	Alteration to setting	High	Very Low	Minor adverse (Not Significant)
Grade II Listed Lower Chancton (NHLE 1284780) and Granary at Lower Chancton to south east of the house (NHLE 1354089)	Alteration to setting	High	Very Low	Minor adverse (Not Significant)

Receptor	Summary of predicted effects	Heritage significance (sensitivity)	Magnitude of change	Significance of effect
Grade II Listed Deans Cottage (NHLE 1284897)	Alteration to setting	High	Very Low	Minor adverse (Not Significant)
Grade II Listed Church Farmhouse (NHLE 1354096) and Barn at Church Farm to South of The House (NHLE 1182122)	Alteration to setting	High	None	No Effect (Not Significant)
Grade II Listed Brightham's Farmhouse (NHLE 1354245), Grade II Listed Cart Shed and Granary to East of Brightham's Farmhouse (NHLE 1181633)	Alteration to setting	High	Very Low	Minor adverse (Not Significant)
Grade II Listed Upper Bargeham (NHLE 1353838) and Barn to Upper Bargeham to the west of the farmhouse (NHLE 1232897)	Alteration to setting	High	Very Low	Minor adverse (Not Significant)

Receptor	Summary of predicted effects	Heritage significance (sensitivity)	Magnitude of change	Significance of effect
Grade I Listed Bunton Chapel of All Saints (NHLE 1354113)	Alteration to setting	High	Very Low	Minor adverse (Not Significant)
Grade II Listed Bunton Manor Farmhouse (LB1182594)	Alteration to setting	High	Very Low	Minor adverse (Not Significant)
Grade II Listed Post Office Wiston Stores (1182621)	Alteration to setting	High	Very Low	Minor adverse (Not Significant)
Grade II Listed Butchers Farmhouse Water Lane (NHLE 1182603)	Alteration to setting	High	Very Low	Minor adverse (Not Significant)
Grade II Listed The Old School (NHLE 1284545)	Alteration to setting	High	Very Low	Minor adverse (Not Significant)
Grade II Listed Yew Tree Cottage (NHLE 1354114)	Alteration to setting	High	Very Low	Minor adverse (Not Significant)
Grade II Listed Polecats (NHLE 1284507)	Alteration to setting	High	Very Low	Minor adverse (Not Significant)

Receptor	Summary of predicted effects	Heritage significance (sensitivity)	Magnitude of change	Significance of effect
Grade II Listed College Wood Farmhouse (NHLE 1191847)	Alteration to setting	High	Very Low	Minor adverse (Not Significant)
Grade II Listed The Shieling (LB1181595)	Alteration to setting	High	None	No Effect (Not Significant)
Grade II Listed Yew Tree Cottage, Partridge Green (NHLE 1181605)	Alteration to setting	High	None	No Effect (Not Significant)
Grade II Listed Muttons (NHLE 1025758)	Alteration to setting	High	Very Low	Minor adverse (Not Significant)
Grade II Listed Court Wick Park (LB1027813) and Court Wick Park Stables (LB1293605)	Alteration to setting	High	Very Low	Minor adverse (Not Significant)
Grade II Listed buildings on Climping Street: Virginia Cottage, Dove Cottage, The Cottage and The Black Horse Public	Alteration to setting	High	Very Low	Minor adverse (Not Significant)

Receptor	Summary of predicted effects	Heritage significance (sensitivity)	Magnitude of change	Significance of effect
House (NHLE 1027675, NHLE 1233449, NHLE 1353859, NHLE 1353860)				
Grade II Listed The Lodge of St Hugh's Monastery (NHLE 1193051)	Alteration to setting	High	Very Low	Minor adverse (Not Significant)
Grade II* Listed Newplace Farmhouse (NHLE 1232882)	Alteration to setting	High	Very Low	Minor adverse (Not Significant)
Grade II Listed The Royal Oak Inn (NHLE 1285777)	Alteration to setting	High	Very Low	Minor adverse (Not Significant)
Grade II Listed Park Farmhouse (NHLE 1285831)	Alteration to setting	High	None	No Effect (Not Significant)
Grade II Listed Wineham Cottage (NHLE 1286203)	Alteration to setting	High	Very Low	Minor adverse (Not Significant)
Grade II Listed Gratwicke (NHLE 1286335)	Alteration to setting	High	None	No Effect (Not Significant)

Receptor	Summary of predicted effects	Heritage significance (sensitivity)	Magnitude of change	Significance of effect
Grade II Listed Hill's Farmhouse (NHLE 1353944)	Alteration to setting	High	Very Low	Minor adverse (Not Significant)
Grade II Listed 1 and 2 Corner House (NHLE 1285826) and Toll Cottage (NHLE 1354042)	Alteration to setting	High	Very Low	Minor adverse (Not Significant)
Grade II Listed Crateman's Farmhouse (NHLE 1354155)	Alteration to setting	High	Low	Moderate adverse (Not Significant)
Grade II Listed Doves Cottages (NHLE 1191816)	Alteration to setting	High	Low	Moderate adverse (Not Significant)
Grade II Listed Blakes Farmhouse (NHLE 1353943)	Alteration to setting	High	Low	Moderate adverse (Not Significant)
Grade II Listed Bergen-Op-Zoom Cottage (NHLE 1393335)	Alteration to setting	High	Low	Moderate adverse (Not Significant)

Receptor	Summary of predicted effects	Heritage significance (sensitivity)	Magnitude of change	Significance of effect
Grade I Listed St John's Priory (NHLE 1217172)	Alteration to setting	High	Low	Moderate adverse (Not Significant)
Grade II Listed Keepers Mead (NHLE 1354279)	Alteration to setting	High	Low	Moderate adverse (Not Significant)
Grade II Listed Northblows Farmhouse (NHLE 1191818)	Alteration to setting	High	Low	Moderate adverse (Not Significant)
Grade II Listed Hollybush Cottage (NHLE 1191821)	Alteration to setting	High	Low	Moderate adverse (Not Significant)
Grade II Listed Granary Cottage (NHLE 1191885)	Alteration to setting	High	Low	Moderate adverse (Not Significant)
Grade II Listed Bloques Farmhouse (NHLE 1191892)	Alteration to setting	High	Low	Moderate adverse (Not Significant)
Grade II Listed Martinsland (NHLE 1353980)	Alteration to setting	High	Low	Moderate adverse (Not Significant)

Receptor	Summary of predicted effects	Heritage significance (sensitivity)	Magnitude of change	Significance of effect
Grade II Listed Tilleys Farmhouse (NHLE 1354090)	Alteration to setting	High	Low	Moderate adverse (Not Significant)
Grade II Listed Green Common Farmhouse (NHLE 1284745)	Alteration to setting	High	Low	Moderate adverse (Not Significant)
Grade II Listed Fair Oak Farmhouse (NHLE 1354112)	Alteration to setting	High	Very Low	Minor adverse (Not Significant)
Grade II Listed Climping Mill (NHLE 1027639)	Alteration to setting	High	Very Low	Minor adverse (Not Significant)
Grade II Listed The Old Vicarage (NHLE 1284693) and Stables of the Old Vicarage to the west of the House (NHLE 1027199)	Alteration to setting	High	None	No Effect
Scheduled monument Itford Hill style settlement on Cock Hill (NHLE 1015881)	Alteration to setting	High	Low	Moderate adverse (Not Significant)
Scheduled monument Itford Hill style	Alteration to setting	High	Low	Moderate adverse (Not Significant)

Receptor	Summary of predicted effects	Heritage significance (sensitivity)	Magnitude of change	Significance of effect
settlement and an Anglo-Saxon barrow field at New Barn Down, 850m north west of Myrtle Grove Farm (NHLE 1017446)				
Scheduled monument Muntham Court Romano-British Site (NHLE 1005850)	Alteration to setting	High	Very Low	Minor adverse (Not Significant)
Scheduled monument Prehistoric flint mine and a Martin Down style enclosure on Harrow hill, 850m south east of Lee Farm (NHLE 1015239)	Alteration to setting	High	Low to Medium	Moderate to Major adverse (Significant)
Scheduled monument settlement site in Chantry Bottom (NHLE 1005823)	Alteration to setting	High	Very Low	Minor adverse (Not Significant)
Scheduled monument Group of four bowl barrows at the	Alteration to setting	High	Low	Moderate adverse (Not Significant)

Receptor	Summary of predicted effects	Heritage significance (sensitivity)	Magnitude of change	Significance of effect
Chantry Post (NHLE 1015713)				
Scheduled monument Medieval earthworks E and SE of St Mary's Church (NHLE 1005828, MSW3371)	Alteration to setting	High	Low	Moderate adverse (Not Significant)
Scheduled monument Prehistoric flint mine and part of a round barrow cemetery at Blackpatch, 400m north east of Myrtle Grove Farm (NHLE 1015880)	Alteration to setting	High	Very Low	Minor adverse (Not Significant)
Scheduled Monument Deserted medieval settlement at Lower Barpham Farm (NHLE 1015883)	Alteration to setting	High	Low	Moderate adverse (Not Significant)
<u>Onshore cable corridor and onshore substation at Oakendene near Cowfold</u>				
Oakendene historic parkland (MWS96, HWS2285)	Intrusive construction activities and alteration to setting	Low	Medium	Minor residual (Not Significant)

Receptor	Summary of predicted effects	Heritage significance (sensitivity)	Magnitude of change	Significance of effect
Grade II Listed Oakendene Manor (NHLE 1027074)	Alteration to setting	High	Low	Moderate adverse (Not Significant)
Grade II Listed Bankfield Farmhouse (NHLE 1193164)	Alteration to setting	High	None	No Effect (Not Significant)
Grade II Listed Allfreys (NHLE 1354152)	Alteration to setting	High	None	No Effect (Not Significant)
Grade II Listed Eastlands Farm (NHLE 1381153)	Alteration to setting	High	None	No Effect (Not Significant)
<u>Onshore cable corridor and Bolney substation extension</u>				
Grade II Listed Twineham Court Farmhouse (NHLE 1025579)	Alteration to setting	High	Very Low	Minor adverse (Not Significant)

Table 31-28 Summary of historic environment assessment of residual effects for operations and maintenance phase

Receptor	Summary of predicted effects	Heritage significance (sensitivity)	Magnitude of change	Significance of effect
Onshore substation at Oakendene near Cowfold				
Historic Landscape Character	Partial loss or disturbance to historic landscape features	Low	Medium	Minor adverse (Not Significant)
Grade II Listed Oakendene Manor (NHLE 1027074)	Alteration to setting	High	Medium	Major adverse (Significant)
Grade II Listed Bankfield Farmhouse (NHLE 1193164)	Alteration to setting	High	None	No Effect
Grade II Listed Eastlands Farm (NHLE 1381153)	Alteration to setting	High	None	No Effect
Existing National Grid Bolney substation extension				
Grade II Listed Twineham Court Farmhouse (NHLE 1025579)	Alteration to setting	High	Very Low	Minor adverse (Not Significant)
<u>Offshore substation and wind turbine generators</u>				
Scheduled monument Napoleonic Barracks 480m south-west of Foxhole Farm Cuckmere Haven (NHLE 1002201)	Alteration to setting	High	Very Low	Minor adverse (Not Significant)

Receptor	Summary of predicted effects	Heritage significance (sensitivity)	Magnitude of change	Significance of effect
Scheduled monument Newhaven military fort and lunette battery (NHLE 1002242)	Alteration to setting	High	Very Low	Minor adverse (Not Significant)
Scheduled monument Camp near Belle Tout lighthouse Birling Gap (NHLE 1002288)	Alteration to setting	High	Very Low	Minor adverse (Not Significant)
Scheduled monument A 19th century artillery fort known as Littlehampton Fort 317m southwest of the Windmill Theatre (NHLE 1005809)	Alteration to setting	High	Very Low	Minor adverse (Not Significant)
Scheduled monument Arundel Castle (NHLE 1012500), Grade II* Listed Arundel Castle Registered Park and Garden (NHLE 1000170) and Grade I, II* and II Listed Buildings at Arundel Castle (List entry nos. 1027926, 1027928, 1248038, 1353747 1414107)	Alteration to setting	High	Low	Moderate adverse (Not Significant)
Scheduled monument Long Barrow on Beacon Hill (NHLE 1013067) and Long barrow on	Alteration to setting	High	Very Low	Minor adverse (Not Significant)

Receptor	Summary of predicted effects	Heritage significance (sensitivity)	Magnitude of change	Significance of effect
Beacon Hill 160m north west of the windmill (NHLE 1015229)				
Scheduled monument Hillfort and a bowl barrow on Seaford Head (NHLE 1014523)	Alteration to setting	High	Very Low	Minor adverse (Not Significant)
Scheduled monument Hillfort, the possible remains of a Romano-Celtic temple and a group of three bowl barrows at Hollingbury (NHLE 1014526)	Alteration to setting	High	Very Low	Minor adverse (Not Significant)
Scheduled monument Cissbury Ring hillfort, prehistoric flint mine and associated remains (NHLE 1015817)	Alteration to setting	High	Low	Moderate adverse (Not Significant)
Scheduled monument Highdown Hill Camp: A Ram's Hill type enclosure an Anglo-Saxon cemetery and associated remains (NHLE 1015877)	Alteration to setting	High	Low	Moderate adverse (Not Significant)
Scheduled monument Martello tower no 74 on Seaford Esplanade (NHLE 1017359)	Alteration to setting	High	Very Low	Minor adverse (Not Significant)

Receptor	Summary of predicted effects	Heritage significance (sensitivity)	Magnitude of change	Significance of effect
Selsey Old Town Conservation Area	Alteration to setting	High	Very Low	Minor adverse (Not Significant)
Sidlesham Quay Conservation Area	Alteration to setting	High	Very Low	Minor adverse (Not Significant)
Aldwick Bay Conservation Area	Alteration to setting	High	Very Low	Minor adverse (Not Significant)
Craigweil House, Aldwick Conservation Area	Alteration to setting	High	Very Low	Minor adverse (Not Significant)
Aldwick Road, Bognor Conservation Area	Alteration to setting	High	Very Low	Minor adverse (Not Significant)
The Steyne and Waterloo Square, Bognor Conservation Area	Alteration to setting	High	Very Low	Minor adverse (Not Significant)
Littlehampton (River Road) Conservation Area	Alteration to setting	High	Very Low	Minor adverse (Not Significant)
Littlehampton (Sea Front) Conservation Area	Alteration to setting	High	Very Low	Minor adverse (Not Significant)
Marine Parade and Hinterland Conservation Area	Alteration to setting	High	Very Low	Minor adverse (Not Significant)

Receptor	Summary of predicted effects	Heritage significance (sensitivity)	Magnitude of change	Significance of effect
Steyne Gardens Conservation Area	Alteration to setting	High	Very Low	Minor adverse (Not Significant)
South Street Conservation Area	Alteration to setting	High	Very Low	Minor adverse (Not Significant)
Sackville Gardens Conservation Area	Alteration to setting	High	Very Low	Minor adverse (Not Significant)
Pembroke and Princes Conservation Area	Alteration to setting	High	Very Low	Minor adverse (Not Significant)
Old Hove Conservation Area	Alteration to setting	High	None	No Effect (Not Significant)
Cliftonville Conservation Area	Alteration to setting	High	Very Low	Minor adverse (Not Significant)
The Avenues Conservation Area	Alteration to setting	High	Very Low	Minor adverse (Not Significant)
Brunswick Town Conservation Area	Alteration to setting	High	Low	Moderate adverse (Not Significant)
Regency Square Conservation Area	Alteration to setting	High	Low	Moderate adverse (Not Significant)
Old Town Conservation Area	Alteration to setting	High	Low	Moderate adverse (Not Significant)

Receptor	Summary of predicted effects	Heritage significance (sensitivity)	Magnitude of change	Significance of effect
Valley Gardens Conservation Area	Alteration to setting	High	Low	Moderate adverse (Not Significant)
East Cliff Conservation Area, including Grade II* Listed Madeira Terrace, Madeira Walk (NHLE 1381696)	Alteration to setting	High	Low	Moderate adverse (Not Significant)
Kemp Town Conservation Area, including Registered Park and Garden (RPG) Kemp Town Enclosures (RPG 001313)	Alteration to setting	High	Very Low	Minor adverse (Not Significant)
Rottingdean Conservation Area	Alteration to setting	High	Very Low	Minor adverse (Not Significant)
Grade II Listed Band Stand (NHLE 1027780), The Esplanade	Alteration to setting	High	Low	Moderate adverse (Not Significant)
Grade II* and II Listed Buildings in Bailiffscourt (NHLE 1027676, NHLE 1027637, NHLE 1027638, NHLE 1027677, NHLE 1233450, NHLE 1274459, NHLE 1276596, NHLE 1353879, NHLE 1353880)	Alteration to setting	High	Very Low	Minor adverse (Not Significant)
Grade II Listed Climping Mill (NHLE 1027639)	Alteration to setting	High	Very Low	Minor adverse (Not Significant)

Receptor	Summary of predicted effects	Heritage significance (sensitivity)	Magnitude of change	Significance of effect
Grade II Listed Rustington Convalescent Home (NHLE 1274038) and Ancillary Building at Rustington Convalescent Home (NHLE 1274012)	Alteration to setting	High	Very Low	Minor adverse (Not Significant)
Grade II Listed Vista Point, including Garages and Attached Walls (NHLE 1396577)	Alteration to setting	High	Low	Moderate adverse (Not Significant)
Grade II Listed Runnymede (NHLE 1419211)	Alteration to setting	High	Low	Moderate adverse (Not Significant)
Grade II Listed 205-211, Brighton Road (NHLE 1025809)	Alteration to setting	High	Low	Moderate adverse (Not Significant)
Grade II Listed Shelters at TQ 273 044 (NHLE 1292365) and TQ 270 045 (NHLE 1210002)	Alteration to setting	High	Very Low	Minor adverse (Not Significant)
Grade II Listed Ian Fraser House, St Dunstons (NHLE 1380546), Chapel to Ian Fraser House, St Dunstons (NHLE 1380547), Walls to Ian Fraser House, St Dunstons (NHLE 1380548)	Alteration to setting	High	Very Low to Low	Moderate adverse (Not Significant)

Receptor	Summary of predicted effects	Heritage significance (sensitivity)	Magnitude of change	Significance of effect
Grade II Listed Roedean School Main Buildings (NHLE 1380831)	Alteration to setting	High	Low	Moderate adverse (Not Significant)
Grade II Listed French Convalescent Home (NHLE 1380152)	Alteration to setting	High	Low	Moderate adverse (Not Significant)
Grade II Listed 17th Century House (NHLE 1222778)	Alteration to setting	High	Very Low	Minor adverse (Not Significant)

Table 31-29 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, C-227, C-234, C-235, C-236, C-241, C-245, C-247	Medium – High	Negligible	Negligible – Minor adverse (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-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-121 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,	Medium	Negligible – Low	Negligible – Minor adverse (Not Significant)

Receptors	Activity and potential effect	Embedded environmental measures-	Value	Magnitude of effect	Significance of effect
Sussex GB640704540003	Changes to watercourse morphology as a result of works in or near watercourses (for example, installation of landfall cable and associated earthworks).	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, C-229	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-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, C-129,	Medium	Negligible – Low	Negligible – Minor adverse (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. This includes the potential for breakout and leakage of bentonite during HDD.	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,, C-227, C-234, C-235, C-236, C-241, C-245, C-253	Medium	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, C-230, C-247	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 temporary access tracks and temporary construction compound areas.	C-11, C-13, C-17, C-18, C-19, C-20, C-21, C-27, 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,	Low – Medium	Negligible	Negligible (Not Significant)

Receptors	Activity and potential effect	Embedded environmental measures-	Value	Magnitude of effect	Significance of effect
		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-180, 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 31-30 Potential residual effects on water environment during construction of the onshore substation

Receptor	Activity and potential effect	Embedded environmental measures	Value	Magnitude of effect	Significance of effect
Groundwater Water Framework Directive (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 adverse (Not Significant)
Groundwater and Surface Water WFD Water Bodies (River and Transitional) Adur and Ouse Hastings Beds GB40702G502000 Adur East (Sakeham) GB107041012900 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, C-227, C-234, C-235, C-236, C-241	Medium – High	Negligible	Negligible – Minor adverse (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 Cowfold Stream GB107041012260 Adur GB540704116000	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, C-143, C-148, C-151, C-152, C-167, C-182	Medium	Negligible – Low	Negligible – Minor adverse (Not Significant)
	Changes to watercourse morphology as a result of works in or near watercourses (for example, associated with earthworks for establishment of temporary construction compounds).	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-130, C-133, C-135, C-140, C-148, C-151, C-152, C-182.	Medium	Negligible	Negligible (Not Significant)
Water Resources Unregistered mapped wells (Frylands Lane (2), The Hangers, Ewhurst Cottages, The Rectory,	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	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,	Low	Negligible	Negligible (Not Significant)

Receptor	Activity and potential effect	Embedded environmental measures	Value	Magnitude of effect	Significance of effect
Park Farm, and The Fodges on Kent Street)	construction compound establishment, or the leakage / spillage of fuels and chemicals onsite.	C-148, C-150, C-151, C-152, C-154, C-167, C-182, , C-227, C-234, C-235, C-236, C-241			
Consented discharges (D2, D3, D4)	Physical disruption to existing discharge infrastructure (for example, 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-179, C-230, C-184	Medium	Negligible	Negligible (Not Significant)
	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, C-184	Medium	Negligible	Negligible (Not Significant)
	Increases in flow in watercourses due to dewatering of excavations.	C-29, C-77, C-118, C-134, C-141, C-184	Medium	Negligible	Negligible (Not Significant)

Table 31-31 Potential residual effects on water environment 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 adverse (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, Chalk Streams, 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	C-6, C-8, C-9, C-21, 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
	presence of limited 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 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 adverse (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 – Medium	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, C-184	Low – High	Negligible	Negligible - Minor adverse (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-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, C-184	Low – High	Negligible	Negligible - Minor adverse (Not Significant)

Table 31-32 Potential residual effects on water environment 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 adverse (Not Significant)
Groundwater and Surface Water WFD Water Bodies (River and Transitional) Adur and Ouse Hastings Beds GB40702G502000 Adur East (Sakeham) GB107041012900 Cowfold Stream GB107041012260 Adur GB540704116000	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 adverse (Not Significant)

Receptor	Activity and potential effect	Embedded environmental measures	Value	Magnitude of effect	Significance of effect
Water Resources 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	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-153, C-184, C-230, C-293	Medium	Negligible	Negligible (Not Significant)

Table 31-33 Potential residual effects on water environment 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 adverse (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	C-6, C-8, C-9, C-21, 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
	the permanent presence of limited 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, C-253	High	Negligible	Minor adverse (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 – Medium	Negligible	Negligible (Not Significant)
Consented discharges	Physical disruption to existing discharge infrastructure (for example, septic tank soakaways or discharge outfalls) from temporary access track /	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
	temporary construction compound establishment.				
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, C-184	Low – High	Negligible	Negligible – Minor adverse (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-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, C-184	Low – High	Negligible	Negligible – Minor adverse (Not Significant)

Table 31-34 Potential residual effects on water environment 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 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 adverse (Not Significant)
Surface Water WFD Water Bodies Adur and Ouse Hastings Beds GB40702G502000 Adur East (Sakeham)	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, C-143, C-148, C-151, C-152, C-167, C-182	Medium	Negligible – Low	Negligible – Minor adverse (Not Significant)

Receptor	Activity and potential effect	Embedded environmental measures	Value	Magnitude of effect	Significance of effect
GB107041012900 Adur (East) GB107041012180 Cowfold Stream GB107041012260 Adur GB540704116000	Changes to watercourse morphology as a result of works in or near watercourses (for example, associated with earthworks for establishment of compounds).	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-130, C-133, C-135, C-140, C-148, C-151, C-152, C-182	Medium	Negligible	Negligible (Not Significant)
Water Resources 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)
Consented discharges (D3)	Physical disruption to existing discharge infrastructure (for example, 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	Activity and potential effect	Embedded environmental measures	Value	Magnitude of effect	Significance of effect
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-179, C-184, C-230	Medium	Negligible	Negligible (Not Significant)
	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-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, C-184, C-230	Medium	Negligible	Negligible (Not Significant)

Table 31-35 Potential water environment residual effects during the 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	Negligible – Minor adverse (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 trenchless crossing.	C-8, C-76, C-135, C-142, C-148, C-149, C-150, C-151, C-167, C-182, C-227, C-234, C-235, C-236, C-241, C-245, C-246, C-251	Medium – High	Negligible	Negligible – Minor adverse (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-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,	Medium	Negligible – Low	Negligible – Minor adverse (Not Significant)

Receptor groups	Activity and potential effect	Embedded environmental measures	Value	Magnitude of effect	Significance of effect
		C-141, C-142, C-143, C-144, C-145, C-148, C-182, C-292			
	Changes to watercourse morphology as a result of works in or near watercourses (for example, installation of watercourse crossings and associated earthworks).	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, C-229, C-292	Medium	Negligible	Negligible (Not Significant)
Conservation Sites, Chalk Streams, 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	C-6, C-7, C-8, C-10, C-11, C-13, C-17, C-18, C-19, C-20, C-21, C-25, 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,	Very Low – Medium	Negligible – Low	Negligible – Minor adverse (Not Significant)

Receptor groups	Activity and potential effect	Embedded environmental measures	Value	Magnitude of effect	Significance of effect
	chemicals onsite. This includes the potential for breakout and leakage of bentonite during trenchless crossing.	C-129, C-130, C-131, 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-184, C-229, C-234, C-235, C-236, C-241, C-245, C-246, C-250, C-251, C-252, C-292			
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. This includes the	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,	High	Negligible	Minor adverse (Not Significant)
Licensed abstractions – Southern Water public water supplies			Low – Medium	Negligible – Low	Negligible – Minor
Other (non-public) licensed abstractions					

Receptor groups	Activity and potential effect	Embedded environmental measures	Value	Magnitude of effect	Significance of effect
PWSs and unregistered mapped wells	potential for breakout and leakage of bentonite during trenchless crossing.	C-143, C-144, C-145, C-146, C-147, C-149, C-150, C-151, C-167, C-179, C-181, C-182, C-227, C-234, C-235, C-236, C-241, C-245, C-246, C-250, C-251, C-252, C-253	Low – Medium	Negligible – Low	adverse (Not Significant)
					Negligible – Minor adverse (Not Significant)
Consented discharges	Physical disruption to existing discharge infrastructure (for example, 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-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, C-184	Low – High	Negligible	Negligible – Minor adverse (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,	Low – High	Negligible	Negligible – Minor adverse (Not Significant)

Receptor groups	Activity and potential effect	Embedded environmental measures	Value	Magnitude of effect	Significance of effect
		C-128, C-130, C-131, C-132, C-133, C-134, C-175, C-179, C-180, C-181, C-184			
	Changes in runoff rates and new flow pathways associated with ground disturbance and the development of temporary access tracks and temporary construction compound areas.	C-11, C-13, C-17, C-18, C-19, C-20, C-21, C-27, 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-180, C-181, C-182, C-184	Low – High	Negligible	Negligible – Minor adverse (Not Significant)
	Increases in flow in watercourses due to dewatering of excavations.	C-29, C-77, C-118, C-134, C-141, C-184	Low – High	Negligible	Negligible – Minor adverse (Not Significant)

Table 31-36 Potential water environment residual effects during construction 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 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 adverse (Not Significant)
Groundwater and Surface Water WFD Water Bodies (River and Transitional) Adur and Ouse Hastings Beds GB40702G502000 Adur East (Sakeham) GB107041012900 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, C-227, C-234, C-235, C-236, C-241	Medium – High	Negligible	Negligible – Minor adverse (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 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 (for example, 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, 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-130, C-133, C-135, C-140, C-148, C-151, C-152, C-182.</p>	<p>Medium</p> <p>Medium</p>	<p>Negligible – Low</p> <p>Negligible</p>	<p>Negligible – Minor adverse (Not Significant)</p> <p>Negligible (Not Significant)</p>
Water Resources Unregistered mapped wells (Frylands Lane (2), The Hangers, Ewhurst Cottages, The Rectory,	<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</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,</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
Park Farm, and The Fodges on Kent Street)	construction compound establishment, or the leakage / spillage of fuels and chemicals onsite.	C-148, C-150, C-151, C-152, C-154, C-167, C-182, , C-227, C-234, C-235, C-236, C-241			
Consented discharges (D2, D3, D4)	Physical disruption to existing discharge infrastructure (for example, 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-179, C-230, C-184	Medium	Negligible	Negligible (Not Significant)
	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, C-184	Medium	Negligible	Negligible (Not Significant)
	Increases in flow in watercourses due to dewatering of excavations.	C-29, C-77, C-118, C-134, C-141, C-184	Medium	Negligible	Negligible (Not Significant)

Table 31-37 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 adverse (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, Chalk Streams, 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	C-6, C-8, C-9, C-21, 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
	presence of limited 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 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 adverse (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 – Medium	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, C-184	Low – High	Negligible	Negligible - Minor adverse (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-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, C-184	Low – High	Negligible	Negligible - Minor adverse (Not Significant)

Table 31-38 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 adverse (Not Significant)
Groundwater and Surface Water WFD Water Bodies (River and Transitional) Adur and Ouse Hastings Beds GB40702G502000 Adur East (Sakeham) GB107041012900 Cowfold Stream GB107041012260 Adur GB540704116000	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 adverse (Not Significant)

Receptor	Activity and potential effect	Embedded environmental measures	Value	Magnitude of effect	Significance of effect
Water Resources 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	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-153, C-184, C-230	Medium	Negligible	Negligible (Not Significant)

Table 31-39 Potential water environment 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 adverse (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-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, C-253	High	Negligible	Minor adverse (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 – Medium	Negligible	Negligible (Not Significant)
Consented discharges	Physical disruption to existing discharge infrastructure (for example, 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, C-184	Low – High	Negligible	Negligible – Minor adverse (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-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, C-184	Low – High	Negligible	Negligible – Minor adverse (Not Significant)

Table 31-40 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 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 adverse (Not Significant)
Surface Water WFD Water Bodies Adur and Ouse Hastings Beds GB40702G502000 Adur East (Sakeham)	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, C-143, C-148, C-151, C-152, C-167, C-182	Medium	Negligible – Low	Negligible – Minor adverse (Not Significant)

Receptor	Activity and potential effect	Embedded environmental measures	Value	Magnitude of effect	Significance of effect
GB107041012900 Adur (East) GB107041012180 Cowfold Stream GB107041012260 Adur GB540704116000	Changes to watercourse morphology as a result of works in or near watercourses (for example, associated with earthworks for establishment of compounds).	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-130, C-133, C-135, C-140, C-148, C-151, C-152, C-182	Medium	Negligible	Negligible (Not Significant)
Water Resources 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)
Consented discharges (D3)	Physical disruption to existing discharge infrastructure (for example, 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	Activity and potential effect	Embedded environmental measures	Value	Magnitude of effect	Significance of effect
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-179, C-184, C-230	Medium	Negligible	Negligible (Not Significant)
	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-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, C-184, C-230	Medium	Negligible	Negligible (Not Significant)

Table 31-41 Summary of residual effects for major accidents and disasters

Activity and impact	Embedded environmental measures	Assessment of residual effect (significance)
Effects arising from major accidents associated with the Proposed Development (i.e. internal major accidents)	C-6, C-8, C-25, C-53, C-56, C-75, C-76, C-108, C-170, C-171, C-172, and C-173	Not Significant
Effects arising from major accidents which could cause harm to receptors within the Proposed Development (i.e., external major accidents)	C-25, C-84, C-85, C-108, C-170, C-171, C-172, and C-173	Not Significant
Disasters	C-25, C-75, C-108, C-117, C-118, C-170, C-171, C-172, and C-173	Not Significant

Table 31-42 Summary of assessment of residual effects for human health

Activity and impact	Magnitude of impact	Receptor and sensitivity or value	Embedded environmental measures	Assessment of residual effect (significance)
Construction				
Health effects from changes in air quality	Negligible	Low	C-19, C-24, C-33, C-106, C-158	Negligible (Not Significant)
Health effects from changes in noise exposure	Negligible to Low	Low	C-24, C-33	Negligible to Minor adverse (Not Significant)
Health effects from changes in vibration exposure	Negligible	Low	C-22, C-33	Negligible (Not Significant)
Health effects from changes in transport nature and flow rate	Negligible	Low	C-106, C-157, C-158, C-159, C-166, C-201	Negligible to Minor adverse (Not Significant)
Health effects from changes in visual amenity	Negligible	Low	n/a	Negligible (Not Significant)
Health effects from changes in exposure to land contamination	Negligible	Low	C-8, C-14, C-24, C-167	Negligible (Not Significant)

Activity and impact	Magnitude of impact	Receptor and sensitivity or value	Embedded environmental measures	Assessment of residual effect (significance)
Health effects from changes in access to opportunities for physical activity	Negligible	Low	C-7, C-19, C-20, C-27	Negligible (Not Significant)
Health effects from changes in socio-economic factors	Negligible	Low	C-34, C-35	Negligible (Not Significant)
Operation and maintenance				
Health effects from changes in noise exposure	Negligible	Low	n/a	Negligible (Not Significant)
Health effects from changes in exposure to EMF	Negligible	Low	C-1, C-29, C-33	Negligible (Not Significant)
Health effects from changes in visual amenity	Negligible	Low	n/a	Negligible (Not Significant)
Decommissioning				
Health effects from changes in air quality	Negligible	Low	C-24	Negligible (Not Significant)

Activity and impact	Magnitude of impact	Receptor and sensitivity or value	Embedded environmental measures	Assessment of residual effect (significance)
Health effects from changes in noise exposure	Negligible	Low	n/a	Negligible (Not Significant)
Health effects from changes in transport nature and flow rate	Negligible	Low	C-106, C-157, C-158, C-159, C-166, C-201	Negligible (Not Significant)
Health effects from changes in visual amenity	Negligible	Low	n/a	Negligible (Not Significant)
Health effects from changes in exposure to land contamination	Negligible	Low	C-239	Negligible (Not Significant)
Health effects from changes in socio-economic factors	Negligible	Low	n/a	Negligible (Not Significant)

Summary of assessment for Climate change

- 31.1.5 The Climate Change Resilience (CCR) and In-Combination Climate Impacts (ICCI) assessments have concluded that there are likely to be **no significant effects** remaining following the assessment of climate change impacts on the construction, operation and maintenance and decommissioning phases of the Proposed Development (for more information see [Chapter 29: Climate change, Volume 2](#) of the ES (Document Reference: 6.2.29). This is because all relevant and implementable environmental measures have been embedded into the Proposed Development and are likely to be effective and deliverable to address the likely significant effects of the Proposed Development.

Summary of assessment for inter-related effects

Table 31-43 Summary of assessment of inter-related effects

Aspect	Assessment of inter-related effect	
	Receptor-related	Project-lifetime
Coastal Processes	Not significant ³	Not significant
Other marine users	Not significant ³	Not significant
Fish and shellfish	Not significant ³	Not significant
Benthic, subtidal and intertidal ecology	Not significant ³	Not significant
Commercial fisheries	Not significant ³	Not significant ³
Marine mammals	Not significant	Not significant
Offshore ornithology	Not significant ³	Not significant
Shipping and navigation	Not significant ³	Not significant
Civil and military aviation	Not significant ³	Not significant ³
Seascape, landscape and visual impact assessment	Not significant	Not significant ³

³ The inter-related effects for this have been assessed within the aspect chapter and not within [Chapter 30: Inter-related effects, Volume 2](#) of the ES (Document Reference: 6.2.30).

Aspect	Assessment of inter-related effect	
	Receptor-related	Project-lifetime
Marine arch	Not significant ³	Not significant ³
Socio-economics	Not significant ³	Not significant ³
Landscape and visual impact assessment	Not significant	Not significant ³
Air quality	Not significant	Not significant ³
Soils and agriculture	Not significant	Not significant ³
Noise and vibration	Not significant	Not significant ³
Terrestrial ecology	Not significant ³	Not significant ³
Transport	Not significant	Not significant
Ground conditions	Not significant	Not significant ³
Historic environment	Not significant ³	Not significant ³
Water environment	Not significant	Not significant ³
MADS	Not significant ³	Not significant ³
Population and human health	Not significant ³	Not significant ³
Climate change	Not significant ³	Not significant ³

Table 31-44 Summary of assessment of residual effects within Chapter 32: ES Addendum

Activity and Impact	Magnitude of change	Receptor (highway link) and sensitivity	Embedded environmental Measures	Assessment of residual effect (significance)
Transport: Construction phase				
Severance	7 Links where GEART (IEA, 1993) thresholds are triggered	12 – Medium 13 – Medium 18 – Low 22 – Medium 26 – Low F – Medium M – Medium P – High U – High	C-1, C-2, C-18, C-157, C-158, C-159, C-165, C-166, C-169	Negligible (Not Significant) – Minor Adverse (Not Significant)
Driver delay	7 Links where GEART (IEA, 1993) thresholds are triggered	12 – Medium 13 – Medium 18 – Low 22 – Medium 26 - Low F – Medium M – Medium P – High U – High	C-1, C-2, C-18, C-157, C-158, C-159, C-165, C-166, C-169	Negligible (Not Significant) – Minor Adverse (Not Significant)
Pedestrian amenity, Pedestrian delay and Fear and intimidation	8 Links where GEART (IEA, 1993) thresholds are triggered	12 – Medium 13 – Medium 18 – Low 22 – Medium 26 – Low	C-1, C-2, C-18, 157, C-158, C-159, C-165, C-166, C-169	Negligible (Not Significant) – Moderate Adverse (Significant)

Activity and Impact	Magnitude of change	Receptor (highway link) and sensitivity	Embedded environmental Measures	Assessment of residual effect (significance)
		F – Medium M – Medium P – High U – High		
Accidents and safety	7 Links where GEART (IEA, 1993) thresholds are triggered	12 – Medium 13 – Medium 18 – Low 22 – Medium 26 - Low F – Medium M – Medium P – High U – High	C-1, C-2, C-18, C-157, C-158, C-159, C-165, C-166, C-169	Negligible (Not Significant) – Minor Adverse (Not Significant)
Air quality: Construction phase				
Activity and impact	Magnitude of impact	Receptor and sensitivity or value	Embedded environmental measures	Assessment of residual effect (significance)
Emissions of air pollutants from construction traffic on roads	Negligible	In accordance with Air Quality Objectives (AQO)	None	Negligible

Activity and Impact	Magnitude of change	Receptor (highway link) and sensitivity	Embedded environmental Measures	Assessment of residual effect (significance)
Noise: Construction phase				
Activity and impact	Magnitude of change	Receptor and sensitivity or value	Embedded environmental measures	Assessment of residual effect (significance)
Temporary noise effects from construction road traffic noise	Very Low	Medium (residential)/ High (non-residential)	C-22, C-33	Negligible / Minor adverse (Not Significant) (residential) Minor adverse (Not Significant) (non-residential)

31.2 Glossary of terms and abbreviations

Term (acronym)	Definition
ALC	Agricultural Land Classification
ANA	Archaeological Notification Area
AQO	Air Quality Objective
CCR	Climate change resilience
CHAONB	Chichester Harbour Area of Outstanding Natural Beauty
DMV	Deserted Medieval Village
EMF	Electromagnetic Field
ES	Environmental Statement
GEART	Guidelines for the Environmental Assessment of Road Traffic
HDD	Horizontal Directional Drilling
ICCI	In-Combination Climate Impacts
IDSR	International Dark Sky Reserve
INNS	Invasive non-native species
LCA	Landscape character area
LWS	Local Wildlife Site
MCZ	Marine Conservation Zone
MHWS	Mean High Water Springs
MSA	Mineral Safeguarding Assessment
NCR	National cycle route
NHLE	National Heritage List for England
OAL	Open Access Land
PRoW	Public Right of Way
RPG	Registered Park and Garden
SAC	Special Area of Conservation

Term (acronym)	Definition
SAR	Search and Rescue
SDNP	South Downs National Park
SPA	Special Protected Area
SSC	Suspended Sediment Concentration
SSSI	Site of Special Scientific Interest
TTS	Temporary Threshold Shift
UXO	Unexploded Ordnance
WFD	Water Framework Directive
WSI	Written scheme of investigation
WTG	Wind Turbine Generator
WWII	World War 2
ZoI	Zone of Influence
ZTV	Zone of Theoretical Visibility

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