Rampion 2 Wind Farm

Category 6: Environmental Statement

Volume 2, Chapter 31: Summary (tracked)

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A	04/08/2023	Final for DCO Application	WSP	RED	RED
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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 ~~Environmental Statement (~~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**; ~~and~~
- **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	*Long-term habitat loss*			
	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**		
	Increase hard substrate			
	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-52~~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**	~~N/A~~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)
		Features of Kingmere MCZ**: Medium*** ***Assessment based on heavy smothering*		
Temporary increase in SSC and sediment deposition in the intertidal area	**Negligible**	A1.45: **Low** A2.111, A2.245: **Not sensitive** **Medium*** **Assessment based on light smothering*	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*** ***Assessment based on heavy smothering*		
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	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)
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:** ~~**Negligible**~~**Vey Low** **UXO clearance:** **Low**	**Piling:** **Low (all species)** **UXO clearance:** **Low**	C-52, C-54, C-102	**Negligible (no significant ecological effect) (piling)** **Minor adverse (no significant ecological effect) (UXO)**
Construction noise impacts (Disturbance)	**Piling:** **Low (cetaceans)** **Very low (pinnipeds)** **UXO clearance:** **Low**	**Piling:** **Low (cetacean species and harbour seal) and very low (grey seal)** **UXO clearance:** **Low**	C-52, C-102	**Minor adverse (no significant ecological effect)**

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 allision risk (worst-case element is internal allision 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	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.			
Operation and Maintenance (O&M)				
Impact (daytime) of the O&M of the Project on seascape character				
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.
Impact (daytime) of the O&M of the Project on perceived landscape character				

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**	**Medium** on views from the closest parts of the Landscape Character Area (LCA) near Seaford Head and Seven Sisters. **Medium-low** with increasing distance eastwards towards Birling Gap and Beachy Head and **low** from the downs further inland. **Zero** change to fabric of physical landscape and majority of the key characteristics of the LCA.	C-37, C-38, C40, 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. **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. **Not significant** (no effect) on fabric of physical landscape and majority of key characteristics of the LCA.
	A2. Adur to Ouse Open Downs **Medium-high**	**Medium-high** on views from two areas of open coastal downs near the coast at Rottingdean and Telscombe Cliffs. **Medium** from the tops of the open rolling	C-37, C-38, C40, C-43, C-61	**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. **Not significant** on views from the tops of the open rolling upland

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. **Negligible** from the furrowed extensive branching dry valley systems. **Zero** change to fabric of physical landscape and many key characteristics of the LCA.		downs inland of Brighton and Hove and Shoreham; and the branching dry valleys. Moderate to minor in EIA terms, long-term, reversible. **Not significant** (no effect) on fabric of physical landscape and many key characteristics of the LCA.
	A3. Arun to Adur Open Downs **Medium-high**	**Medium-high** on views from the closest areas open downland north of Worthing around Cissbury Ring and Highdown Hill. **Medium** from distant tops of open downland between Arun and Adur river valleys.	C-37, C38, C40, C43, C-61	**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)
		Low from the furrowed extensive branching dry valley systems. **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.
	B1. Goodwood to Arundel Wooded Estate Downland **Medium**	**Medium** on views from the high open ridges of the downs between Bignor Hill and the Trundle and lower hills between Goodwood and Slindon. **Low** over majority of the LCA of folded downland landform masked by large woodland blocks. **Zero** change to fabric of physical landscape and many key characteristics of the LCA.	C-37, C-38, C-40, C-43, C-61	**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. **Not significant** over majority of the LCA of folded downland landform masked by large woodland blocks. Moderate/minor in EIA terms, long-term, reversible. **Not significant** (no effect) on fabric of physical landscape and

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. **Low** from 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.	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. **Not significant** on areas of LCA at Funtington, East Lavant and Goodwood forming narrow strip on boundary of SDNP. **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. **Medium-low** with increasing distance eastwards towards	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. **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)
		Birling Gap and Beachy Head. **Zero** change to fabric of physical landscape and many key characteristics of the LCA.		Moderate in EIA terms, long-term, reversible. **Not significant** (no effect) on fabric of physical landscape and many key characteristics of the LCA.
	S2. Brighton to Rottingdean **Medium**	**Medium-high** on views from the narrow band of intertidal shoreline between Brighton and Rottingdean. **Zero** change to fabric of physical landscape and many key characteristics of the LCA.	C-37, C-38, C-40, C-43, C-61	**Significant** on views from the narrow band of intertidal shoreline between Brighton and Rottingdean. Moderate in EIA terms, long-term, reversible. **Not significant** (no effect) on fabric of physical landscape and many key characteristics of the LCA.
Indirect impact on perceived landscape character of West Sussex	SC1. South Coast Shoreline **Medium**	**Medium-high** from the long narrow shoreline of shingle banks to the east of Selsey Bill, extending between Selsey Bill and Shoreham-by-Sea.	C-37, C-38, C-40, C-43, C-61	**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.

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

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

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

Activity and impact	Receptor and sensitivity	Magnitude of change	Embedded environmental measures	Assessment of residual effect (significance)
Indirect impact on perceived SDNP Special Qualities	*landscapes and breathtaking views* **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).		**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). **Not significant** and moderate in EIA terms, long-term, reversible with increasing distance eastwards between Birling Gap and Beachy Head *'Diverse, inspirational landscapes':*

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

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).
	2. The frequently wooded shoreline **High**	**Zero**	C-37, C-38, C-40, C-43, C-61	**Not significant** (no effect)
	3. The flatness of the landform, unusual among AONBs, accentuates the significance of sea and tide and of distant landmarks across land and water **High**	**Negligible** change to 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.	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. **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)
	4. The open water of the central area of the Harbour **High**	**Negligible**	C-37, C-38, C-40, C-43, C-61	**Not significant** and minor in EIA terms, long-term, reversible
	5. The overall sense of wilderness within the seascape **High**	**Negligible**	C-37, C-38, C-40, C-43, C-61	**Not significant** and minor in EIA terms, long-term, reversible
	6. The particularly strong historic environment and heritage assets **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'.
	7. The picturesque harbourside settlements **High**	**Negligible**	C-37, C-38, C-40, C-43, C-61	**Not significant** and minor in EIA terms, long-term, reversible
	8. The unspoilt character and unobtrusive beauty **High**	**Negligible**	C-37, C-38, C-40, C-43, C-61	**Not significant** and minor in EIA terms, long-term, reversible
	9. The very special sense of peace and tranquillity, largely engendered by the gentle way the AONB is used and	**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)
	closeness to nature that is experienced **High**			
Indirect impact on perceived IoW AONB Special Qualities	*1. From majestic sea cliffs and sweeping beaches to the quiet solitude of ancient woodland.*	**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
	2. The ever-changing patchwork of worked fields to the timeless and enduring presence of the downs.	**Low**	C-37, C-38, C-40, C-43, C-61	**Not significant** and minor in EIA terms, long-term, reversible
	3. The intricate inlets of tranquil creeks to the long-distance views from coastal heath and downland.	**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
	4. The planned and manicured gardens of former Royal	**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)
	Estates and Victorian villas to the irregular undulating hedged fields of pasture.			
	5. The dark starlit skies to the bustle and colour of festivals and events.	**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
	6. The winding paths, shuts and hollow ways in the countryside to chines and steps down cliffs to the beach.	**Zero**	C-37, C-38, C-40, C-43, C-61	**Not significant** (no effect)
	7. Place names and dialect to poetry, literature and art.	**Zero**	C-37, C-38, C-40, C-43, C-61	**Not significant** (no effect)
	8. Isolated houses, hamlets and rural villages to harbour towns, castles and tumuli	**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)
				Not significant (no effect) on sections of route outside ZTV (with no visibility)
	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	**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)				Moderate in EIA terms, direct, long-term, reversible.
	Viewpoint 31 Butser Hill **Medium**	**Negligible**	C-62, C-94, C-98, C-110, C-266	**Not significant** Minor/negligible in EIA terms, direct, long-term, reversible.
Direct impact on views from South Downs IDSR (Intrinsic Rural Darkness and Buffer Zone)	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.
	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.
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 Minor** 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

~~Visual~~ 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 ~~negligible~~ 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	~~High to Medium~~ Medium to high	Zero to Medium-low	Moderate / Minor	Minor	Minor	Minor ~~/ Negligible~~	Minor ~~/ Negligible~~
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 ~~/ Moderate~~ to Moderate**	**Major / Moderate to ~~Moderate~~ Minor**	**Moderate**	Moderate / Minor to Minor / Negligible~~Minor~~	Moderate / Minor to Minor / Negligible~~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 to~~ Major / Moderate to Moderate**	**~~Major /~~ Moderate** to Minor	Moderate to Minor
PRoW 1788	High	High	**Major**	Moderate	Moderate	Moderate to Minor	~~Moderate to~~ Minor

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
PRoW 1775 - 1777	High	Zero	No Effect	No Effect	No Effect	No Effect	No 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)							
LW1 Hickstead Low Weald	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

~~Visual~~ 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:~~	~~N/A - No trees / woodland / hedges directly affected.~~					
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 ~~S~~scrub and 1No hedge notched to 14m)	Medium-low	Medium	Moderate / Minor	Negligible	No Effect	No Effect

~~Visual~~ 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
35: Lower Arun Valley Floor	Medium-low	Medium-high	**Moderate** (<350m)	~~Minor~~ Negligible	~~Minor / Negligible~~No Effect	No Effect
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

~~Visual~~ 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:	Medium-low	Low	Minor / Negligible	Minor / Negligible	No Effect	No Effect
~~Landscape elements:~~	~~N/A - No trees / woodland / hedges directly affected.~~					
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 ~~30m~~ 23m and ~~2~~3No.hedges notched to 14m)	High	Medium-high	**Major**	**Major / Moderate**	**Moderate**	Minor

~~Visual~~ 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
A3: Arun to Adur Open Downs	High	High	**Major** (<650m)	Minor	No Effect	No Effect
Landscape elements: (~~7~~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 ~~11No~~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 ~~<250m~~	~~**Major** (<300m)~~**Moderate**	No Effect	No Effect	No Effect

~~Visual~~ 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
~~Landscape elements:~~	~~N/A - No trees / woodland / hedges directly affected.~~					
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~~Minor~~	No Effect~~Minor / Negligible~~	No Effect
Landscape elements: (21~~No.~~ treeline and 1No. hedge~~s~~ 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 ~~/ Negligible~~	No Effect
Landscape elements: (32~~No.~~ treelines /	Medium-high	Medium-high	**Major / Moderate**	**Moderate**	Moderate	Minor

~~Visual~~ 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 20~~13~~No. 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** (<~~1~~250m)	Moderate / Minor	Minor / Negligible	No Effect
Landscape elements: (~~23~~40No. including areas of woodland / treeline / hedge and scrub clearance ~~hedges~~ and notching of hedges / treelines	Medium-high	High to Medium-high	**Major to Major / Moderate**	**Major / Moderate**	**Moderate**	Minor

~~Visual~~ 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
scrub to 14m and 6m)~~2No. woods cleared to 30m and 20m and 21No treelines / hedges notched to 6-14m)~~						
LW1: Hickstead Low Weald	Medium-low	Medium-high	**Moderate** (<150m)	Minor	Minor / Negligible	No Effect
Landscape elements: (1No. wood / hedge cleared to 20m and 2~~3~~No treelines / hedges notched to ~~14~~6-~~20m~~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
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

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
Transport routes						
Climping Street	~~Medium~~High to Medium	Negligible-Zero	Minor to Minor / Negligible	No Effect	No Effect	No Effect
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 ~~to /~~ Moderate** (<150m)	~~No~~ **~~Effect~~Moderate**	~~No~~ ~~Effect~~Moderate	~~No Effect~~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

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
A284 Lyminster Road	Medium	Medium-high	**Major / Moderate** (<250m)	~~No Effect~~Moderate / Minor	~~No Effect~~Minor / Negligible	No Effect
(Future baseline: Lyminster Bypass)	Medium	High to Medium	**Major / Moderate** to **Moderate** (<650m)	No Effect	No Effect	No Effect
Polling Street	High to Medium	High	**Major to Major / Moderate** to **Moderate** (<200m)	~~No Effect~~Minor	No Effect	No Effect
A27	Medium	Medium-low	Moderate / Minor	~~No Effect~~Minor	~~No Effect~~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

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
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~~No Effect~~	~~No Effect~~Minor	~~No Effect~~Minor / Negligible
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** ~~to Moderate~~ (<100m)	**Moderate** to Moderate / Minor	Minor to Minor / Negligible	No Effect
Kent Street	High to Medium	High	**Major to Major / Moderate** (<~~250m~~1.5km)	**Moderate** to Moderate / Minor ~~/ Negligible~~	Minor to Minor / Negligible~~No Effect~~	No Effect
Wineham Lane	High to Medium	High	**Major to Major / Moderate** (<50m)	Minor to Minor / Negligible	Minor to Minor / Negligible~~No Effect~~	No Effect
Bob Lane	High to Medium	Zero	No effect	No Effect	No Effect	No Effect
Recreational Routes						

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
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 Cycle Route (See Ferry Road and Church Lane)	High	Medium-low	**Moderate** (<200m)	Minor	No Effect	No Effect
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	~~Negligible-Zero~~High	~~Minor~~**Major** (<450m)	Moderate~~No effect~~	Moderate to Minor~~No effect~~	Minor~~No effect~~
Open Access Land (OAL)						
Atherington	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
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
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

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 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
Climping Caravan Park	High	Medium	**Major / Moderate**	No Effect	No Effect	No Effect
Brookside Caravan Park	High	Negligible-Zero~~Low~~	Minor ~~Moderate~~	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

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 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: Climping 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)	~~Minor to None~~**Moderate**	~~N/A~~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	~~No Effect~~Moderate	~~N/A~~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 ~~to None~~
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 ~~significance~~ (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 - nNoise				
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 ~~significance~~ (Nnot ~~s~~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	
Construction[1]							
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 **Rock Common Quarry**	High	Negligible	Minor Negative	**Not Significant**
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)				
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.				
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
Landfall and onshore cable corridor				
Historic landscape character	Partial loss or disturbance to historic landscape features	Low	Low	**Minor adverse (Not Significant)**
Direct effects on heritage assets				
Zone 1: South Coast Plain				
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)**
Other previously unrecorded archaeological remains in Zone 1: South Coast Plains				
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)**
Zone 2: South Downs				
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)**
Other previously unrecorded archaeological remains in Zone 2: South Downs				
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)**
Other previously unrecorded archaeological remains in Zone 3: Low Weald				
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 Tilleys 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 Buncton Chapel of All Saints (NHLE 1354113)	Alteration to setting	High	Very Low	**Minor adverse (Not Significant)**
Grade II Listed Buncton 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)**
Onshore cable corridor and onshore substation at Oakendene near Cowfold				
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)**
Onshore cable corridor and Bolney substation extension				
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)**
Offshore substation and wind turbine generators				
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 Dunstans (NHLE 1380546), Chapel to Ian Fraser House, St Dunstans (NHLE 1380547), Walls to Ian Fraser House, St Dunstans (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 landfall

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		C-141, C-142, C-143, C-144, C-145, C-148, C-182			
	Changes to watercourse morphology as a result of works in or near watercourses (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 **Residential properties (Atherington, The Mill, Climping and Climping Park)**	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**)
	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 **Licensed abstractions – Southern Water public water supplies**	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**)
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 **Licensed abstractions – Southern Water public water supplies**	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**)
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 **Licensed abstractions – Southern Water public water supplies**	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**)
Other (non-public) licensed abstractions			Low – Medium	Negligible – Low	**Negligible – Minor**

Receptor groups	Activity and potential effect	Embedded environmental measures	Value	Magnitude of effect	Significance of effect
	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			**adverse** (**Not Significant**)
PWSs and unregistered mapped wells			Low – Medium	Negligible – Low	**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**	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 31-37 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 **Licensed abstractions – Southern Water public water supplies**	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**)
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 **Licensed abstractions – Southern Water public water supplies**	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**)
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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Rampion 2
WIND FARM