The Great Grid Upgrade

Sea Link

Sea Link

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1. Register of Environmental Actions and Commitments

1.1 Introduction

Overview

1.1.1 The Sea Link Project (hereafter referred to as the 'Proposed Project') is a proposal by National Grid Electricity Transmission plc (hereafter referred to as National Grid) to reinforce the transmission network in the South East of England and East Anglia. The Proposed Project is required to accommodate additional power flows generated from renewable and low carbon energy generation, as well as additional new interconnection with mainland Europe.

1.1.2 This would be achieved by reinforcing the network with a High Voltage Direct Current (HVDC) Link between the proposed Friston Substation in the Sizewell area of Suffolk and the existing Richborough to Canterbury 400 kV overhead line close to Richborough in Kent. This reinforcement would be approximately 138 km long, comprising primarily of a HVDC offshore transmission link, with both HVDC and High Voltage Alternating Current (HVAC) onshore elements.

Purpose of the Register of Environmental Actions and Commitments

1.1.3 This Register of Environmental Actions and Commitments (REAC) performs two functions:

- **Section 1** (see Chapter 2) contains actions and commitments that the undertaker will comply with during the construction, operation or decommissioning of the Proposed Project to be secured by the REAC (this document). These measures are secured by Requirement 5 in the Development Consent Order.
- **Section 2** (see Chapter 3) provides a mitigation route map, providing a full list of actions and commitments made by National Grid during the iterative development of the designs on the Proposed Project. These measures are secured by other documents as referenced in the section.

1.1.4 Section 1 of the REAC has been developed to provide firm, precise commitments for measures that are not subject to amendment. This Section is secured by Requirement 5, with the commitments in 'final' version as opposed to being contained in outline management plans. Insofar as is relevant, these commitments will also apply to the pre-construction period of the Proposed Project. This section provides reassurance to Interested Parties, the Examining Authority and the Secretary of State that these measures will apply as written.

1.1.5 Section 2 of the REAC provides a mitigation route map to assist all parties involved in the construction, operation and decommissioning of the Proposed Project in understanding how measures are secured among the application documents. This reduces the risk of any commitments being missed at a later date

1.1.6 It includes embedded measures, which are typically intrinsic to the design submitted as part of the application for development consent, and good practice measures outlined within **Application Document 7.5.2 Offshore Construction Environmental Management Plan** . It also includes the additional mitigation measures that have been identified through the Environmental Impact Assessment (EIA) to avoid or reduce likely significant environmental effects.

1.1.7 Compliance with Section 1 of the REAC is secured through Schedule 3 Requirement 5 of the draft Development Consent Order (DCO) (**Application Document 3.1 draft Development Consent Order**). As outlined in the Outline Offshore CEMP (**Application Document 7.5.2 Offshore Construction Environmental Management Plan**) and the Outline Onshore CEMP (**Application Document 7.5.3 Outline Onshore Construction Environmental Management Plan**) National Grid will put in place robust procedures to audit and inspect the Proposed Project, including its supply chain of contractors, to make sure the control measures set out in Section 2 of the REAC are adopted when constructing the Proposed Project. Measures relate to operation and decommissioning are then secured in other documents as specified, including documents such as the Drainage Strategies (and final Drainage Management Plans) that cover both the construction and operational periods.

Terminology and Referencing

1.1.8 As described in **Application Document 6.2.1.5 Part 1 Introduction Chapter 5 EIA Approach and Methodology**, mitigation measures required to avoid or reduce the potential significant adverse effects of the Proposed Project have been categorised as follows:

- Embedded Measures: those that are intrinsic to and built into the design in order to reduce the environmental effects of the Proposed Project. These include:
  - sensitivity routing and sitting of infrastructure and temporary works; and
  - environmental commitments associated with certain environmental receptors within the Order Limits;
- Control and Management Measures: these are good practice measures that are included within the Outline Offshore CEMP (**Application Document 7.5.2 Offshore Construction Environmental Management Plan**), the Outline Onshore CEMP (**Application Document 7.5.3 Outline Onshore Construction Environmental Management Plan**) and other control and management plans (such as the Outline Construction Traffic Management and Travel Plans).
- Additional Mitigation: these are additional topic and site-specific measures, over and above embedded measures, that have been applied to mitigate or offset any likely significant effects.

1.2 Register of Environmental Actions and Commitments

1.2.1 The tables within Section 1 and Section 2 of the REAC have been structured as follows:

- Column (1) provides a reference for each mitigation measure;
- Column (2) identifies the part of the ES, or other standalone document, that is the source of the mitigation measure;

- Column (3) presents a description of the purpose of the mitigation measure;
- Column (4) describes the commitment or action;
- Column (5) identifies the type of mitigation (either embedded measures, control and management or good practice measures, or additional mitigation);
- Column (6) identifies the stage at which the mitigation will be implemented, either Construction or Operation;

1.2.2 Section 2 also includes two further columns, namely:

- Column (7) identifies the securing document or plan that describes the proposed mitigation in more detail; and
- Column (8) refers to the relevant securing mechanism(s).

1.2.3 In each table the measures have been grouped by topic. Tables start with general measures that relate to onshore mitigation and offshore mitigation (those referenced as GG), before setting out measures relating to specific environmental topics (e.g. air quality (AQ), biodiversity (B), noise and vibration (NV)).

1.2.4 For further details on the mitigation measures detailed in Section 2, the relevant document (see Column 7) should be consulted. The measures will be implemented as described below unless otherwise outlined in a management plan or agreed by the Relevant Planning Authority and/or statutory consultee under the associated requirement of the draft DCO.

2. Section 1 – Actions and Commitments secured by Requirement 5 of the DCO

General Onshore Scheme

Table 2.1 Register of Environmental Actions and Commitments – Onshore mitigation

(1) ID	(2) ES or Standalone Document Reference	(3) Potential Changes and Effects	(4) Mitigation commitment	(5) Mitigation	(6) Project Phase
General Project Commitments (i.e. relates to more than one environmental topic)					
GG38	Not applicable	Impact on safe movement of vehicles and pedestrians within the site perimeter during hours of low light or darkness	The operational external lighting systems at the proposed converter stations and substations in Kent and Suffolk will meet the following minimum exterior lighting requirements (which are in accordance with NGET standards): • Maintained average illuminance: 6.0 lux • Maintained minimum point Illuminance: 2.5 lux	Embedded	Operation
GG42	Not applicable	Class 10 land (no land rights)	In respect of any land identified in the Book of Reference and Land Plans as Class 10 land (no land rights), the Applicant will not carry out any part of the Authorised Project in respect of that land, save to the same degree that the Applicant could do so pursuant to the Order provisions and powers which prevail outwith the Order Limits (e.g. the survey power in Article 22)	Additional	Operation
GG43	Not Applicable	Provision of a new permissive path in the vicinity of the Saxmundham Converter Station.	A permissive path will be created along the permanent access road into the Saxmundham Converter Station as shown indicatively on sheet 1 of 7 of the Access, Rights of Way and Public Rights of Navigation Plans (Application document 2.7.1) . The path will be opened for public access once the construction of the LionLink Converter station is complete at which point the permissive path will be in place for the life of the development, except where National Grid Electricity Transmission or National Grid Ventures requires a closure for maintenance purposes. Should the construction of Lionlink be delayed such that construction at Saxmundham Converter Station for Sea Link is complete before construction has started on the Converter Station for Lionlink, the permissive path would be open on completion of the Sea Link works and then closed for safety reasons for the duration of the Lionlink construction works. The path will run from the access off the B1121, across the Fromus Bridge, to where it intersects with the westernmost section of the permanently diverted E-491/005/0.	Additional	Operation

(1) ID	(2) ES or Standalone Document Reference	(3) Potential Changes and Effects	(4) Mitigation commitment	(5) Mitigation	(6) Project Phase
			Opportunities will be sought to extend the permissive path from the point of intersection with E-491/005/0 through the woodland planting north of the converter station to connect into the reinstated PRoW E-491/006/0. The permissive path will be accessible to pedestrians and mobility scooter users only due to the route over the Fromus bridge not being suitable for cyclists and horse riders. The permissive path will meet local highway authority specifications for signing and surfacing. The surfacing will be fit for public use, ensuring paths remain open and unobstructed. The surfacing will be suitable for user types including pedestrians and mobility scooters. Any gates will be accessibility friendly, and fencing will be set back at least 0.5m and hedges and trees set back 2 m. The permissive path will be located between the access road and the boundary planting except for where is crosses the Fromus bridge, where a pedestrian section of the bridge would be segregated using markings and/or tactile paving and/or delineation strips. The permissive path would only be temporarily closed when major maintenance is required for either the Saxmundham or LionLink Converter stations (should the LionLink DCO be granted), when large loads may need to be delivered, or else where maintenance of the access road and associated vegetation is required. During any other periods of high activity on the haul road, when safety may be a concern, barriers and or path marshals would be provided.		
GG46	Not Applicable	Communication around weekend working hours	The written scheme setting out stages of the authorised development developed under Requirement 4 will be made available on a website maintained by the Applicant so that communities can understand the intended programme of works. The version to be uploaded on the website will provide additional detail that identifies the weekends when it is anticipated that onshore construction work will be undertaken on Sundays and Bank Holidays. It will specify the works numbers affected by Sunday and Bank Holiday working so that communities can understand the area of the project likely to be affected. The Applicant will aim to update the website version on a 6 monthly basis where there have been changes to the programme. Where weekend is required unexpectedly on Sundays and Bank Holidays that have not been identified in the written scheme on the website, the Applicant will communicate with affected communities and relevant stakeholders, including those who have registered to receive updates, as far in advance of works as reasonably practicable. For avoidance of doubt, for works that are part of Work No. 3B, Work No. 9B and Work No. 11, Bank Holiday working will only take place	Additional	Construction

(1) ID	(2) ES or Standalone Document Reference	(3) Potential Changes and Effects	(4) Mitigation commitment	(5) Mitigation	(6) Project Phase
			where required for activities specified in 7(4) as other elements of those works will not take place on Bank Holidays as specified in Requirement 7.		
Landscape and Visual					
No general measures identified					
Ecology and Biodiversity					
B10	Application Document 6.2.2.2 Part 2 Suffolk Chapter 2 Ecology and Biodiversity and Application Document 6.2.3.2 Part 3 Kent Chapter 2 Ecology and Biodiversity Application Document 6.9 Water Framework Directive	Disturbance to fish from piling associated with the River Fromus and River Stour crossings	The foundations of bridges across the River Fromus and the River Stour will be constructed using soft-start non-percussive piling techniques to limit disturbance, which would assist in allowing sounds to increase gradually allowing fish in the immediate vicinity to swim away.	Control and Management	Construction
B11	Application Document 6.2.2.2 Part 2 Scheme Chapter 2 Ecology and Biodiversity and Application Document 6.2.3.2 Part 3 Kent Chapter 2 Ecology and Biodiversity	To reduce ecological impact	The width of the cable corridor at ditch and hedgerow crossings will be minimised to 20 m where possible. Between the Saxmundham Converter Station and Friston Substation the HVAC and HVDC cables will both be in trench, so the width would be greater. In this area the width of any single break in the hedge would be no more than 39m.	Embedded	Construction
B15	Application Document 6.2.2.2 Part 2 Suffolk Chapter 2 Ecology and Biodiversity and Application Document 6.2.3.2 Part 3 Kent Chapter 2 Ecology and Biodiversity	Impacts on mammals	While the haul road will be fenced, this fence will generally not go entirely to ground level so mammals such as badger will be able to pass. Where fencing is required to go to ground level passing places will be provided for mammals.	Embedded	Construction
B16	Application Document 6.2.2.2 Part 2 Suffolk Chapter 2 Ecology and Biodiversity and Application Document 6.2.3.2 Part 3 Kent Chapter 2 Ecology and Biodiversity	Impact on ditches	If the culverts mentioned in Commitment W03 can avoid specific vole burrow locations through micro-siting while still meeting the needs of the Proposed Project, this will be implemented.	Embedded	Construction
B17	Application Document 6.2.2.2 Part 2 Suffolk Chapter 2 Ecology and Biodiversity and Application Document 6.2.3.2 Part 3 Kent Chapter 2 Ecology and Biodiversity	Restriction of movement for water voles	The culverts will also avoid narrowing of natural channel width. Where bank material cannot be preserved within the culvert (due to the weight or levels) they will also include a minimum 150 mm wide mammal ledge (with 600mm headroom where ditch depth allows) to ensure continued accessibility by water voles.	Embedded	Construction

(1) ID	(2) ES or Standalone Document Reference	(3) Potential Changes and Effects	(4) Mitigation commitment	(5) Mitigation	(6) Project Phase
B18	Application Document 6.2.2.2 Part 2 Suffolk Chapter 2 Ecology and Biodiversity and Application Document 6.2.3.2 Part 3 Kent Chapter 2 Ecology and Biodiversity Application Document 6.9 Water Framework Directive	Harm to eels	Drainage outfalls would be designed to exclude eels from accessing SuDS, for example by having outfall pipes situated above the receiving water level. Where water is required to be pumped from water courses, detailed designs will be provided to the Environment Agency prior to installation. For pumps used for this pumping, they will be fitted with 2 mm screens to prevent Eels being affected.	Embedded	Construction
B64	Application Document 7.5.2 Outline Onshore Construction Environmental Management Plan	Impact on ponds	Where there are existing ponds (as shown on Ordnance Survey mapping) within the Order Limits, these will not be removed as part of the works. This measure does not apply to any new ponds created since submission of the application.	Control and management measure	Construction
B71	Application Document 7.5.2 Outline Onshore Construction Environmental Management Plan	Disturbance to otters	During meteorological winter, construction work within 10 m of any main river, or the Minster Stream (an ordinary watercourse), is only to be undertaken between 1-hour after sunrise and 1-hour before sunset, except for the use of construction access routes that cross said watercourses, trenchless construction beneath watercourses, and during emergencies, to avoid disturbing otter during periods of darkness.	Control and management measure	Construction
Cultural Heritage					
No general measures identified					
Water Environment					
W27	Application Document 9.84 Register of Environmental Actions and Commitments (REAC)	Increased flood risk	Any culvert to be permanently retained would be sized and designed to account for future flood flows, taking into account recommended allowances for climate change in accordance with Environment Agency guidelines.	Embedded	Construction / Operation
W28	Application Document 9.84 Register of Environmental Actions and Commitments (REAC)	Access to flood defences	Fencing required for compounds and working areas will be designed such that there are no restrictions to the Environment Agency's access for the maintenance of their flood defences.	Embedded	Operation
W29	Application Document 7.5.2 Outline Onshore Construction Environmental Management Plan	Deterioration in surface water quality	Where vegetation removal is required at culvert construction sites, any herbicides would be used in accordance with the Agreement to Use of Herbicide in or Near Water guidance note and following agreement from the Environment Agency, as applicable.	Control and management measure	Construction
W35	Application Document 9.84 Register of Environmental Actions and Commitments (REAC)	Loss of floodplain storage	For events up to and including the 1% Annual Exceedance Probability flood events plus climate change, where pylons and a temporary drainage pond would be located within the fluvial floodplains of the River Stour as part of the Kent Onshore Scheme, compensatory storage within the Order Limits will be provided for loss of floodplain storage, in accordance with a Floodplain Compensation Strategy detailed in the	Additional	Operation

(1) ID	(2) ES or Standalone Document Reference	(3) Potential Changes and Effects	(4) Mitigation commitment	(5) Mitigation	(6) Project Phase
			Drainage Management Plan that is secured under Requirement 6 of the DCO and to which the Environment Agency is a consultee.		
W36	Application Document 9.84 Register of Environmental Actions and Commitments (REAC)	Deterioration in surface water quality	As described in the Suffolk and Kent Drainage Strategies (Documents 9.17.1 and 9.17.2), penstock valves will be installed to isolate the outfalls of the drainage systems serving the operational substations and converter stations to prevent a pollution incident in the event of fire detection. The valves will be designed to close automatically, with a manual override available in the event of automation failure and the systems would be suitably maintained over the operational lifetime of the Proposed Project.	Additional	Operation
W39	Application Document 9.84 Register of Environmental Actions and Commitments (REAC)	Increased flood risk	(1) No works which form part of the authorised development related to Work No. 2 (Works to connect the Suffolk Substation to the Suffolk Converter Station) or Work No. 5 (Underground electric line connection in Suffolk) as shown on Sheet 1 of the Works Plans [REP4-006] only may commence until details of the temporary drainage solution referenced to as the 'temporary construction linear attenuation along haul road' in Appendix A of Application Document 9.17.1(c) Suffolk Drainage Strategy have been submitted to and approved by Suffolk County Council, following consultation with the Environment Agency. (2) The works referred to in sub-paragraphs (1) also include pre-commencement works where those works could increase surface water run-off.	Additional	Construction
Geology and Hydrogeology					
GH12	Application Document 6.2.2.5 Part 2 Suffolk Chapter 5 Geology & Hydrogeology and Application Document 6.2.3.5 Part 3 Kent Chapter 5 Geology & Hydrogeology	Impacts on sensitive groundwater features	Sensitive routeing and siting of infrastructure and temporary works will be adopted to avoid sensitive features such as groundwater Source Protection Zone (SPZ) 1. Where possible, a risk assessment will be undertaken if the most vulnerable areas cannot be avoided. This will be shared with the relevant local authority by the Environment Agency or by the applicant for information once agreed with the Environment Agency.	Embedded	Construction
GH13	Application Document 6.2.2.5 Part 2 Suffolk Chapter 5 Geology & Hydrogeology and Application Document 6.2.3.5 Part 3 Kent Chapter 5 Geology & Hydrogeology	Impact from geotechnical hazards	The Proposed Project consideration of the ground conditions in the design is based on data from site specific ground investigation and assessment, and therefore any risks from ground instability, chemical aggressivity of the ground, ground gases and radon reports would be considered within the engineering design of the new infrastructure in accordance with best practice and in consultation with the relevant planning authority.	Embedded	Construction
Agriculture and soils					
AS10	Application Document 6.2.2.6 Part 2 Suffolk Chapter 6 Agriculture & Soils and Application Document 6.2.3.6 Part 3	Permanent landtake from agricultural land	During construction, the design will be developed to minimise permanent land take requirements from agricultural land.	Embedded	Construction

(1) ID	(2) ES or Standalone Document Reference	(3) Potential Changes and Effects	(4) Mitigation commitment	(5) Mitigation	(6) Project Phase
	Kent Chapter 6 Agriculture & Soils				
Traffic and Transport					
No general measures identified					
Noise and Vibration					
NV04	Application Document 6.2.2.9 Part 2 Suffolk Chapter 9 Noise and Vibration and Application Document 6.2.3.9 Part 3 Kent Chapter 9 Noise and Vibration	Impacts on noise sensitive receptors	For both routine and more substantial maintenance activities, the contractor will conduct a proportionate assessment of potential noise and vibration impacts, as may be required, in accordance with BS 5228:2009+A1:2024 (or its successor). Where applicable, mitigation measures will be incorporated into the works to reduce the effects from noise and vibration, in accordance with BS 5228:2009+A1:2024 (or its successor).	Control and management measures	Operation
NV05	Application Document 6.2.2.9 Part 2 Suffolk Chapter 9 Noise and Vibration and Application Document 6.2.3.9 Part 3 Kent Chapter 9 Noise and Vibration	Impacts on noise sensitive receptors	For decommissioning activities, the contractor will conduct a comprehensive assessment of potential noise and vibration impacts, as may be required.In consultation with the relevant planning authority, mitigation measures will be incorporated into the works to reduce the effects and noise and vibration to an acceptable level.	Control and management measures	Decommissioning
NV12	Application Document 9.84 Register of Environmental Actions and Commitments (REAC)	Impacts on noise sensitive receptors	<u>Friston Substation (Suffolk):</u> *During normal operation of the proposed substation, the rating level of noise emitted from the development, as determined in accordance with BS 4142:2014+A1:2019, shall not exceed the following noise levels when assessed at a position 1 metre from the façade of the receptor (free field equivalent).* a. 22 dB LAr,Tr at any time at the following noise sensitive locations: i. 1 Woodside Cottages, Grove Road (641837, 261172) ii. Woodside Barn Cottages, Church Road (641237, 260645)t: b. 21 dB LAr,Tr at the following noise sensitive locations: i. Little Moor Farm, Knodishall (641228, 261676) *The rating level shall include all applicable acoustic corrections, including (but not limited to) those for tonality, impulsivity, intermittency and any other characteristics identified by BS 4142.*	Embedded	Operation
Air Quality					
AQ15	Application Document 9.84 Register of Environmental	Impacts on air quality sensitive receptors	Where maintenance activities are required during the operational phase and have the potential to generate dust or emissions, proportionate dust and emissions management measures consistent with those committed	Additional	Operation

(1) ID	(2) ES or Standalone Document Reference	(3) Potential Changes and Effects	(4) Mitigation commitment	(5) Mitigation	(6) Project Phase
	Actions and Commitments (REAC)		to for the construction phase shall be implemented, to minimise any effects on air quality. These measures may include AQ02, AQ03, AQ04, AQ05, AQ06, AQ07, AQ08, AQ09, AQ10, AQ11 and AQ12 as set out in this document.		
Socio-economics, Recreation and Tourism					
No general measures identified					
Health and Wellbeing					
HW03	Application Document 9.84 Register of Environmental Actions and Commitments (REAC)	Impact on welfare	The undertaker has an established process of recording and responding to potential welfare concerns raised with the undertaker. This information shall be shared with the relevant district and county councils when concerns are recorded. Where consent is given by the individual, and the potential concern is also relevant to ScottishPower Renewables ("SPR"), the undertaker will share the minimum level of detail necessary with SPR, to allow both developers to respond accordingly. This process also applies in reverse.	Additional	Construction
Climate Change					
CC03	Application Document 6.2.5.1 Part 5 Combined Chapter 1 Climate Change	Operational carbon as a result of the Proposed Development	At the detailed design stage, the Contractor shall review all switchgear and substation equipment to determine whether the Proposed Project can be designed to avoid the use of SF_6 reliant assets. Where SF_6 free alternatives are not technically feasible or are grossly disproportionate in cost, the Contractor shall document the alternatives considered and the justification for the continued use of SF_6 reliant equipment and implement an emissions monitoring and control plan that is fully compliant with the Fluorinated Gas (F gas) Regulation and any successor legislation. The Contractor shall ensure that any SF_6 reliant assets installed are subject to low leakage specifications. Where SF_6 reliant equipment is required, the design shall, wherever practicable, accommodate the potential for future replacement with SF_6 free alternatives. Additionally, in the event of SF_6-insulated switchgear is required, the Contractor shall, wherever practicable, re-use SF_6 recovered from decommissioned equipment.	Embedded	Operation
CC04	Application Document 6.2.5.1 Part 5 Combined Chapter 1 Climate Change	Embodied carbon as a result of the Proposed Development	Low carbon construction techniques, including low-carbon plant, vehicles and equipment, will be used, where appropriate, in line with National Grid policy.	Embedded	Construction
Arboriculture					
A01	Application Document 6.10 Arboricultural Impact Assessment	Impacts to retained trees from tree works	All tree work will follow the principles of BS3998:2010 Tree work – Recommendations (BS3998:2010) (British Standards Institute) and will be carried out by suitably qualified and insured contractors.	Control and management measure	Construction
A02	Application Document 6.10 Arboricultural Impact Assessment	Dangerous trees that pose a safety risk to infrastructure constructed as part of the Proposed Project during the construction period, and during operation	A pre-construction check will be undertaken of trees within the Order Limits and remedial works actioned where appropriate (e.g. where they pose an unacceptable risk to people or property). Trees will be monitored during the construction period, and during operation where they pose a risk to infrastructure constructed as part of the Proposed Project. All staff operating on the Site are to be made aware of the need	Control and management measure	Construction and Operation

(1) ID	(2) ES or Standalone Document Reference	(3) Potential Changes and Effects	(4) Mitigation commitment	(5) Mitigation	(6) Project Phase
			to look out for obvious signs of tree defects and to report them to the Site Manager who will seek further advice as necessary. Where remedial works are required in respect of those trees which are subject of commitment A05, then details of such works will be agreed in advance with the relevant local planning authority, save where already addressed in the Arboricultural Method Statement as required by Requirement 8, Schedule 3 and save in the case of emergency.		
A03	Application Document 6.10 Arboricultural Impact Assessment	Physical damage to retained trees from plant or machinery during the construction phase of the Proposed Project	A banksman will be used where the movement of plant or long reach machinery occurs within 5 m of any part of a retained tree to ensure no damage is sustained. Works within 5 m of any part of a retained tree should only occur if they cannot be avoided.	Control and management measure	Construction
A04	Application Document 6.10 Arboricultural Impact Assessment	Impacts to retained trees and/or ancient woodland and its buffer zone from the storage or mixing of materials within or in proximity to RPAs or ancient woodlands buffer zone. This could include increases to soil levels or the run off or inadvertent spillage of toxic substances within RPAs or into ancient woodland and its buffer zone.	All storage or mixing of materials will take place in agreed allocated areas at least 5 m from the edge of the RPA of retained trees and at least 5 m from the edge of an ancient woodland buffer zone.	Control and management measure	Construction
A05	Application Document 6.10 Arboricultural Impact Assessment	Loss of veteran or ancient trees	The undertaker commits to the retention of all veteran and ancient trees within or immediately adjacent to the Order Limits except where works are required to meet commitment A02 related to dangerous trees.	Embedded	Construction

Suffolk Onshore Scheme

Table 2.2 Register of Environmental Actions and Commitments – Suffolk Onshore Scheme

(1) ID	(2) ES or Standalone Document Reference	(3) Potential Changes and Effects	(4) Mitigation commitment	(5) Mitigation	(6) Project Phase
General Project Commitments (i.e. relates to more than one environmental topic)					
GG33	Application Document 6.2.1.4 Part 1 Introduction Chapter 4 Description of the Proposed Project	Impacts from establishment and use of construction compound	Not all of the proposed construction compounds S02, S03, S04 and S05 would be required for the Proposed Project's Saxmundham Converter Station site. Either S02, S03, or a combination of both S04 and S05 would be used. This flexibility is included to provide flexibility for National Grid Ventures to locate their own converter station and construction compound for the proposed LionLink projects within this area.	Embedded	Construction
GG41	Application Document 9.84 Register of Environmental Actions and Commitment	Radiation emergency event	Pre-commencement: (1) Any notification of the anticipated programme for pre-commencement operations provided under Requirement 4(1) must also be submitted to the Duty Holder at least 28 days in advance of those operations taking place. Any such notification must detail how the	Additional	Construction

(1) ID	(2) ES or Standalone Document Reference	(3) Potential Changes and Effects	(4) Mitigation commitment	(5) Mitigation	(6) Project Phase
			undertaker, in carrying out the specified pre-commencement operation(s), will: 1. Protect all members of the workforce involved in any activity pursuant to the specified operation(s) during a radiation emergency 2. Implement emergency and evacuation procedures if notified of a radiation emergency 3. Maintain open line(s) of communication with the Duty Holder such that any communication from the Duty Holder regarding a radiation emergency event will be received without delay and the undertaker's emergency procedures for a radiation emergency are implemented without delay (2) The details submitted pursuant to sub-paragraph (1) must demonstrate, to the reasonable satisfaction of the Duty Holder, that the activities undertaken in relation to the specified pre-commencement operation(s) will not prevent, hinder or otherwise interfere with the Duty Holder's ability to implement the Suffolk Resilience Forum Radiation Emergency Plan in the event of a radiation emergency. (3) For the purposes of this commitment, "the Duty Holder" means "the Duty Holder" as defined within the Radiation (Emergency Preparedness and Public Information) Regulations 2019(a) as amended from time to time.		
GG43	Application Document 9.84 Register of Environmental Actions and Commitment	Loss of footpaths	A permissive path will be created along the permanent access road into the Saxmundham Converter Station as shown indicatively on sheet 1 of 7 of the Access, Rights of Way and Public Rights of Navigation Plans (Application document 2.7.1) . The path will be opened for public access once the construction of the LionLink Converter station is complete except where National Grid requires a closure for maintenance purposes. Should the construction of Lionlink be delayed such that construction at Saxmundham Converter Station for Sea Link is complete before construction has started on the Converter Station for Lionlink, the permissive path would be open on completion of the Sea Link works and then closed for safety reasons for the duration of the Lionlink construction works. The path will run from the access off the B1121, across the Fromus Bridge, to where it intersects with the westernmost section of the permanently diverted E-491/005/0. Opportunities will be sought to extend the permissive path from the point of intersection with E-491/005/0 through the woodland planting north of the converter station to connect into the reinstated PRoW E-491/006/0.	Additional	Operation

(1) ID	(2) ES or Standalone Document Reference	(3) Potential Changes and Effects	(4) Mitigation commitment	(5) Mitigation	(6) Project Phase
			The permissive path will be clearly signposted at both ends and will be accessible to walkers only due to the route over the Fromus bridge not being suitable for cyclists and horse riders. The permissive path will be located between the access road and the boundary planting except for where is crosses the Fromus bridge, where a pedestrian section of the bridge would be segregated using markings and/or tactile paving and/or delineation strips. The permissive path would only be temporarily closed when major maintenance is required for either the Saxmundham or LionLink Converter stations (should the LionLink DCO be granted), when large loads may need to be delivered, or else where maintenance of the access road and associated vegetation is required. During any other periods of high activity on the haul road, when safety may be a concern, barriers and or path marshals would be provided.		
GG47	Application Document 9.84 Register of Environmental Actions and Commitment	Community involvement	The Applicant will work collaboratively with a range of partners such as community members, local parish and town councils, Suffolk Association of Local Councils (SALC), NSIP promoters, district & county councils and the VCFSE sector.	Additional	Construction
Landscape and Visual					
No measures specific to Suffolk identified					
Ecology and Biodiversity					
B19	Application Document 6.2.2.2 Part 2 Suffolk Chapter 2 Ecology and Biodiversity	Impacts from polarised light pollution on the River Fromus	In consultation with the relevant planning authority, a light-coloured rough textured surface to the proposed crossing of the River Fromus will be considered as part of the crossing design/specification in order to mitigate reflected polarised light pollution.	Embedded	Construction
B21	Application Document 6.2.2.2 Part 2 Suffolk Chapter 2 Ecology and Biodiversity	Impacts on Sandlings SPA or Leiston-Aldeburgh SSSI	HVDC cables will be installed using a trenchless technique at the landfall to avoid direct impacts on Sandlings SPA or Leiston-Aldeburgh SSSI	Embedded	Construction
B22	Application Document 6.2.2.2 Part 2 Suffolk Chapter 2 Ecology and Biodiversity	Impacts to ecological receptors from having to retrieve drilling equipment	Measures will be adopted to avoid the trenchless drilling equipment getting stuck. No excavation will be undertaken to remove stuck drilling equipment within Leiston-Aldeburgh SSSI, and even outside the SSSI excavation would only be undertaken within 35 m of the entry or exit point where the drill is at shallow depth (>5 m).	Embedded	Construction
B23	Application Document 6.2.2.2 Part 2 Suffolk Chapter 2 Ecology and Biodiversity	Disturbance impacts on ecological receptors	Best practical means such as noise fencing or similar effective noise reduction methods will be used around works areas where required to avoid significant disturbance. At the trenchless compound, a noise barrier of a minimum height of 3 m will be used along with other measures as a noise mitigation measure to ensure noise levels at Sandlings SPA do not exceed 60 dB Lamax, and to prevent visual disturbance, including from lighting. During works at the trenchless compound, noise monitoring would be included adjacent to Sandlings SPA and Leiston-Aldeburgh SSSI to confirm the mitigation measures have delivered the required	Embedded	Construction

(1) ID	(2) ES or Standalone Document Reference	(3) Potential Changes and Effects	(4) Mitigation commitment	(5) Mitigation	(6) Project Phase
			noise thresholds. Should noise levels be exceeded, further measures would be introduced to meet the noise limits specified. Bird monitoring within the RSPB Reserve will be undertaken during trenchless compound set up, demobilisation, and drilling, to confirm locations of Schedule 1 bird territories (to inform the spotters inspection route) and to monitor for bird disturbance and inform any further mitigation. Locations to be agreed with RSPB.		
B28	Application Document 6.2.2.2 Part 2 Suffolk Chapter 2 Ecology and Biodiversity	Impacts from the loss of acid grassland	National Grid will enhance 6 ha of acid grassland, to be managed in an enhanced manner for 10 years	Additional	Operation
B29	Application Document 6.2.2.2 Part 2 Suffolk Chapter 2 Ecology and Biodiversity	Impacts on the orchid population	During works in the broadleaved plantation east of the proposed Saxmundham Converter Station the cable route will be micro-sited to avoid the orchid population at the time of submission of the DCO application wherever possible, using an ecologist providing guidance on the ground.	Additional	Construction
B30	Application Document 6.2.2.2 Part 2 Suffolk Chapter 2 Ecology and Biodiversity	Disturbance to Bats	A minimum 20 m setback of construction compounds from the hedge used by barbastelle which connects Important Hedgerows 3 and 5 as shown in **Application Document 6.4.2.2.A.7 Suffolk Important Hedgerows** will be instituted.	Additional	Construction
B31	Application Document 6.2.2.2 Part 2 Suffolk Chapter 2 Ecology and Biodiversity	Habitat Loss	For Important Hedgerows (and particularly Hedgerows 3 and 5 as shown in **Application Document 6.4.2.2.A.7 Suffolk Important Hedgerows** if compound options S04 and S05 are selected, and Hedgerow 23 adjacent to Friston Substation) the hedgerows would need to be fenced to avoid incidental damage	Additional	Construction
B39	Application Document 6.2.2.2 Part 2 Suffolk Chapter 2 Ecology and Biodiversity	Impacts from light pollution	Permanent operational lighting would be directed to the interior of the Converter Station and on as low a column height as practicable, with measures such as hoods or cowls implemented where required to avoid light spill onto Bloomfield's Covert woodland and immediately surrounding habitat. An exception will be at the access gate where lighting will need to be directed into the access area for safety. Lighting at the access point will be controlled via passive infrared sensor or similar to limit its period of use.	Additional	Operation
B40	Application Document 6.2.2.2 Part 2 Suffolk Chapter 2 Ecology and Biodiversity	Loss of arable land for ground nesting farmland birds	The undertaker commits to the management of 12 ha of arable land for ground nesting farmland birds, particularly skylark, maintained favourably for the lifetime of the Proposed Project.	Additional	Operation
Cultural Heritage					
No measures specific to Suffolk identified					
Water Environment					
W18	Application Document 6.2.2.4 Part 2 Suffolk Chapter 4 Water Environment	Effects on water environment receptors	The undertaker will make landfall using a trenchless crossing technique beneath the Hundred River marshes and three ordinary watercourses that drain this area.	Embedded	Construction

(1) ID	(2) ES or Standalone Document Reference	(3) Potential Changes and Effects	(4) Mitigation commitment	(5) Mitigation	(6) Project Phase
Geology and Hydrogeology					
No measures specific to Suffolk identified					
Agriculture and Soils					
AS13	Application Document 7.5.3 Outline Onshore Construction Environmental Management Plan	Impact on graziers	The Applicant will not restrict the ability of graziers and their animals to freely move about the RSPB North Warren Reserve, or access water supply, without prior consultation with RSPB.	Additional	Construction
Traffic and Transport					
TT05 and SE02	Application Document 6.2.2.7 Part 2 Suffolk Chapter 7 Traffic and Transport	Impacts on the highway and walking and cycling routes	The undertaker will utilise trenchless methods at landfall (including underneath the Suffolk Coast Path, King Charles III England Coast Path, PRoW E-103/006/0 and Thorpe Road). This will minimise potential impacts on the highway and walking/cycling routes.	Embedded	Construction
TT12	Application Document 9.76.5 Change Request Addendum to Volume 6 Environmental Statement	Restricted local access	Whilst the B1121 Main Road will be temporarily closed between the junctions with the A12 to the west and the B1121 Church Hill to the east of the temporary road closures on Benhall Bridge, local access will still be retained for residents and business in Benhall, including occupiers and/or users of the Whitearch Park Residential Park Homes and the Railway Farm Shop Vegetable Boxes, although there may be minor delays accessing businesses and properties at some times. Emergency services will not be delayed.	Additional	Construction
TT13	Application Document 7.5.3 Outline Onshore Construction Environmental Management Plan	Restricted parking availability	The Applicant will only park one vehicle at any time in the car park opposite sluice cottage off Thorpe Road (as noted in What3Words as: /highbrow.paints.daisy), except in the case of an emergency.	Control and Management	Construction
Air Quality					
AQ16	Application Document 9.84 Register of Environmental Actions and Commitments	Impact from emissions associated with back-up generators during operation	To ensure emissions from the back-up generators during the operational phase are not significant, the Undertaker will: • Ensure the generators on the Applicant's sites at Saxmundham and Friston adhere to Stage V emissions standards and seek alternatives where possible, such as batteries or alternative fuel; • Should diesel generators be used on the Applicant's sites, ensure that they are placed as far from human and ecological receptors as possible; • Testing shall be kept to a minimum and no more than 50 hours per year for the Applicant's generators; • If design evolution at Friston results in a requirement for an increase in the generator size greater than 1000 kVA, further assessment will be submitted to the relevant planning authority prior to installation of the generator to demonstrate that significant adverse air quality effects would not occur; and	Embedded	Operational

(1) ID	(2) ES or Standalone Document Reference	(3) Potential Changes and Effects	(4) Mitigation commitment	(5) Mitigation	(6) Project Phase
			• Any back-up generators at the East Anglia One North and East Anglia Two sites, should they be installed, would be outside the Applicant's control in terms of their inclusion, size or location.		
Noise and Vibration					
Socio-economics, Recreation and Tourism					
No measures specific to Suffolk identified					
Health and Wellbeing					
HW02	Application Document 9.84 Register of Environmental Actions and Commitments	Mental health impacts	The Applicant commits to the following measures to minimise mental health impacts: • Provision of a Community Liaison Officer (CLO) trained in mental health awareness • 'Meet the Project' events in Saxmundham and Aldeburgh – one-to-one surgeries where people can meet National Grid's community liaison officer in a neutral space to ask questions and make suggestions without having to travel to the main construction compound - which may be intimidating and not practicable for safety reasons. • Providing a community contact phone line and email address where people can go with any queries which National Grid will aim to respond to personally rather than generically. Ensuring that these contact details are widely displayed and included on all community updates. • Ensuring contractors follow mental health-aware community behaviour standards • Attend and contribute to the Sizewell Health and Wellbeing Working Group meetings, if the existing attendees are in agreement.	Additional	Construction
Arboriculture					
A11	Application Document 6.10 Arboricultural Impact Assessment	Negative impacts to the structure of the soil within RPAs of retained trees from all-terrain vehicles used for monitoring and maintenance access in wet conditions on soft ground.	Access required for monitoring and maintenance along informal access routes (e.g. field boundaries) in wet conditions within RPAs, will be achieved by pedestrian only access; or where all-terrain vehicle access is required, fit for purpose ground protection specified to the highest expected load in accordance with **Application Document 6.10 Arboricultural Impact Assessment** will be utilised to avoid negatively impacting the soil structure.	Embedded	Operation

Table 2.3 Register of Environmental Actions and Commitments – Kent Onshore Scheme

(1) ID	(2) ES or Standalone Document Reference	(3) Potential Changes and Effects	(4) Measure Proposed	(5) Mitigation	(6) Project Phase
Landscape and Visual					
No measures specific to Kent identified					
Ecology and Biodiversity					
B42	Application Document 6.2.3.2 Part 3 Kent Chapter 2 Ecology and Biodiversity	Direct impacts on Thanet Coast & Sandwich Bay SPA/Ramsar and Sandwich Bay SAC	Where HVDC cables cross saltmarsh habitat associated with the Thanet Coast & Sandwich Bay SPA/Ramsar and Sandwich Bay SAC, they would be installed using a trenchless technique at the landfall to avoid direct impacts on the saltmarsh habitat.	Embedded	Construction
B54	Application Document 6.2.3.2 Part 3 Kent Chapter 2 Ecology and Biodiversity	Loss of habitat used by golden plover and breeding skylark	The undertaker commits to delivery of 10 ha of off-site arable enhancement for SPA golden plover and for breeding skylark.	Additional	Operation
B55	Application Document 6.2.3.2 Part 3 Kent Chapter 2 Ecology and Biodiversity	Bird collision	The undertaker will install bird diverters on new sections of overhead line, which are visible in low light conditions and at night. In the event that collision monitoring surveys in the oLEMP identify that collisions with NGET's existing lines are worse than predicted due to the new overhead line arrangement, the applicant will consult with the statutory nature conservation body regarding the need for additional diverters on NGET's existing lines. Where consultation with the statutory nature conservation body indicates that additional mitigation is required, diverters shall be fitted on the NGET's existing lines, or other appropriate measures agreed with the statutory nature conservation body.	Additional	Operation
B58	Application Document 6.2.3.2 Part 3 Kent Chapter 2 Ecology and Biodiversity	To minimise disturbance to bats	In line with best practice guidance from the Bat Conservation Trust and Institute of Lighting Professionals (ILP) operational lighting would be the minimum required for the safe working of the proposed Minster Converter Station. Lighting would be directed to the interior of the Converter Station, and on as low a column height as practicable, with measures such as hoods or cowls implemented where required to minimise light spill onto immediately surrounding habitat. An exception will be at the access gates where lighting will need to be directed into the access area for safety. Lighting at the access point will be controlled via passive infrared sensor or similar to limit its period of use.	Embedded	Operation
B65	Application Document 7.5.2 Outline Onshore Construction Environmental Management Plan	Impact on breeding birds	Any tree height reduction required in Sandwich Bay to Hackling Marshes SSSI to ensure no interference with the new overhead line during operation, will not take place during March to September inclusive.	Additional	Operation
B66	Application Document 6.2.3.2 (C) Part 3 Kent Chapter 2 Ecology and Biodiversity	Impact on the former hoverport ecology	To ensure ecological interest features of the former hoverport are not affected during construction, the following approach will be taken: a) pre-construction botanical survey will be undertaken to map vegetation stands of particular significance to protect, such	Control and management measures	Construction

(1) ID	(2) ES or Standalone Document Reference	(3) Potential Changes and Effects	(4) Measure Proposed	(5) Mitigation	(6) Project Phase
			as orchids or dense stands of dock or wild carrot (the larval foodplants of the two rarest invertebrates on site). b) An access route will subsequently be marked out which avoids these stands, along with dense stands of other vegetation. c) A suitable qualified ecologist will be on site to supervise and guide the marking out of the access route.		
B67	Application Document 7.5.2 Outline Onshore Construction Environmental Management Plan	Impact on saltmarshes	To ensure there will be no vehicular or pedestrian access across the saltmarsh, access and egress of vehicles to the mudflats will be via the former hoverport with a buffer between the defined access route and the seaward (distal) limit of the saltmarsh. The locations and widths of access routes across the mudflats will be defined post consent in consultation with Natural England, Kent Wildlife Trust and the National Trust , and will be informed by a pre-construction saltmarsh habitat survey which will include the access and egress routes and will also cover the final trenchless crossing alignment. All vehicles accessing the intertidal mudflats will be low pressure bearing.	Control and management measures	Construction / Operation
B68	Application Document 7.5.2 Outline Onshore Construction Environmental Management Plan	Impacts on Pegwell Bay	The Undertaker will prepare a Pegwell Bay Landfall Construction Method Statement as part of the Cable Specification and Installation Plan (CSIP) prior to commencement of the landfall works in Kent, in consultation with Natural England, Kent Wildlife Trust and the National Trust, covering marine cable pull-in and cable burial (including excavations) between Mean Low Water Springs (MLWS) and the Trenchless crossing exit pits.	Control and management measures	Construction
B69	Application Document 7.5.2 Outline Onshore Construction Environmental Management Plan	Impact on saltmarshes	Trenchless crossing exit pits in Pegwell Bay will be at least 105 m seaward from the edge of the saltmarsh. The temporary working area and access routes will be located at a minimum distance of 50 m from the edge of the saltmarsh.	Control and management measures	Construction
B70	Application Document 7.5.2 Outline Onshore Construction Environmental Management Plan	Impact on the former hoverport ecology	Once the specific route for construction vehicles to traverse the former Kent hoverport has been identified by the Applicant, Kent Wildlife Trust, Natural England, Thanet District Council and the National Trust will be consulted on the route	Additional	Construction
Cultural Heritage					
No measures specific to Kent identified					
Water Environment					
W22	Application Document 6.2.3.4 Part 3 Kent Chapter 4 Water Environment	Effects on water environment receptors	The Undertaker will make landfall using a trenchless crossing technique beneath the saltmarsh habitat and four watercourses that drain to Pegwell Bay.	Embedded	Construction
W30	Application Document 7.5.2 Outline Onshore Construction Environmental Management Plan	Impact on flood levels	In order not to impact flood levels by means of displacement or changing flow paths, at the Kent Landfall, cofferdams (which are temporary) will not be located within 16 m of the River Stour (tidal element) or the coastal flood defences. Therefore a FRAP will not be required.	Embedded	Construction

(1) ID	(2) ES or Standalone Document Reference	(3) Potential Changes and Effects	(4) Measure Proposed	(5) Mitigation	(6) Project Phase
W34	Application Document 7.5.2 Outline Onshore Construction Environmental Management Plan	Impact on flood risk	In order not to increase flood risk, the proposed temporary bridge crossing of the River Stour will be constructed with a soffit level set above the 0.5% event flood level, with a minimum additional freeboard allowance of 300 mm.	Embedded	Construction
Geology and Hydrogeology					
No measures specific to Kent identified					
Agriculture and Soils					
No measures specific to Kent identified					
Traffic and Transport					
TT10	Application Document 7.5.2 Outline Onshore Construction Environmental Management Plan	Impact on highway network	No public vehicles will be able to access/exit Ebbsfleet Lane North from the new A256 junction (K-BM02), during construction or operation, with fencing and gates used to prevent unauthorised access.	Control and management measures	Construction and Operation
Air Quality					
AQ11	Application Document 6.2.3.8 Part 3 Kent Chapter 8 Air Quality	Impact from emissions associated with back-up generators during operation	To ensure emissions from the back-up generators during the operational phase are not significant, the Undertaker will: • Ensure the generators adhere to Stage V emissions standards and seek alternatives where possible, such as batteries or alternative fuel; • Should diesel generators be used, ensure that they are placed as far from Sandwich Bay to Hacklinge Marshes SSSI as possible (100 m as a minimum) and at least 100 m apart. Ensure that these generators are tested on different days; • Testing shall be kept to a minimum and no more than 50 hours per year for each generator; and • If design evolution results in a requirement for an increase in the generator size (i.e. greater than 500 kVA at the substation and 2000 kVA at the converter station) or for a generator to be located within 100 m of the SSSI, further assessment will be submitted to the relevant planning authority prior to installation of the generator to demonstrate that significant adverse air quality effects would not occur in either scenario..	Embedded	Operation
Noise and Vibration					
Socio-economics, Recreation and Tourism					
SE03	Application Document 6.2.3.10 Part 3 Kent Chapter 10 Socio-Economics, Recreation, and Tourism	To avoid impacts on users of Great Oaks Small School	Utility trenching works within 150 m of Great Oaks Small School will be programmed to occur in school holidays or as otherwise agreed with Great Oaks Small School to avoid impacts on users of the community facility receptor.	Embedded	Construction
Health and Wellbeing					

(1) ID	(2) ES or Standalone Document Reference	(3) Potential Changes and Effects	(4) Measure Proposed	(5) Mitigation	(6) Project Phase
No measures specific to Kent identified					
Arboriculture					
No measures specific to Kent identified					

Table 2.4 Register of Environmental Actions and Commitments – Offshore Scheme

(1) ID	(2) ES Reference	(3) Potential Changes and Effects	(4) Measure Proposed	(5) Mitigation	(6) Project Phase
General project commitments					
No specific mitigation measures included in this section					
Landfall and vessel set up					
No specific mitigation measures included in this section					
Marine physical environment					
MPE04	Application Document 6.2.4.1 Part 4 Marine Chapter 1 Physical Environment Application Document 6.2.1.4 Part 1 Introduction Chapter 4 Description of the Proposed Development.	Disturbance to the seabed.	Where rock placement is required to protect an exposed or shallow buried cable, the height and width of these berms will be kept to a practical and safe minimum.	Additional	Construction
MPE05	Application Document 6.2.4.1 Part 4 Marine Chapter 1 Physical Environment Application Document 6.2.1.4 Part 1 Introduction Chapter 4 Description of the Proposed Development.	Disturbance to the seabed.	As outlined within the Cable Specification and Installation Plan secured under Condition 4 of the dML, during the lifetime of the project, scheduled monitoring of the system would be undertaken via a preliminary inspection, maintenance and repair (IMR) programme as the basis for preventative maintenance may comprise of the following: • Base-line as-built depth of lowering (DOL) survey (ideally a continuous survey after installation and protection completed). • Initial DOL monitoring survey 12 months after commissioning and handover to operations. • Monitoring surveys (either using DTAS or vessels) to establish any areas where any DOL or cable system anomalies may develop and inform the maintenance programme.	Additional	Construction
MPE09	Application Document 9.84 Register of Environmental Actions and Commitments (REAC)	Impacts on the River Stour physical environment	The River Stour Channel in Pegwell Bay will be monitored throughout the operational life of the asset in line with a monitoring and contingency plan as a Requirement. The plan will set out the frequency and methods for monitoring the location of the channel, contingency actions to be undertaken should the River Stour migrate to a location close to the cable and a 'trigger' point for when actions would be taken.	Additional	Operation
Benthic ecology					
No specific mitigation measures included in this section					
Fish and shellfish					

(1) ID	(2) ES Reference	(3) Potential Changes and Effects	(4) Measure Proposed	(5) Mitigation	(6) Project Phase
No specific mitigation measures included in this section					
Marine mammals					
No specific mitigation measures included in this section					
Ornithology					
No specific mitigation measures included in this section					
Marine archaeology					
MA15	Application Document 7.5.3 Outline Offshore Construction Environmental Management Plan	Disturbance to marine archaeology	As a designated area, the Goodwin Sands Marine Conservation Zone (MCZ), off the Kent coast will not have aggregate collected from within the MCZ for the purposes of this scheme.	Control and management measures	Construction
Shipping and navigation					
SN07	Application Document 6.2.4.7 Part 4 Marine Chapter 7 Shipping and Navigation	Disturbance to other vessels.	The Undertaker will notify regular runners (regular vessel operators) including ferry operators of construction activities that may affect their movements. Engagement with regular runners and specifically ferry operators ensures awareness of the installation details which minimises disruption.	Additional	Construction
SN09	Application Document 6.2.4.7 Part 4 Marine Chapter 7 Shipping and Navigation	Disturbance to other vessels.	Where necessary the Undertaker will identify areas of high potential magnetic compass deviations to relevant stakeholders.	Additional	Construction
SN10	Application Document 6.2.4.7 Part 4 Marine Chapter 7 Shipping and Navigation	Navigation within Sandwich Port and Haven/Pegwell Bay during construction.	The Navigation and Installation Plan (NIP), secured within the Deemed Marine Licence, will pay particular focus to operations within Pegwell Bay as this is a region of very shallow water and challenging navigation for vessels entering and exiting the River Stour and may also have a high presence of amateur or inexperienced recreational boaters.	Additional	Construction
SN11	Application Document 6.2.4.7 Part 4 Marine Chapter 7 Shipping and Navigation	Disturbance to the Sunk.	The Undertaker will coordinate planned operations with other projects, in particular North Falls and Five Estuaries Wind Farm projects within the Concurrent RAM Activity Areas outlined in Plate 3.1 of the Outline Navigation and Installation Plan (NIP) and as described within section 3.3 of the oNIP, secured within the Deemed Marine Licence, to avoid concurrent Restricted Ability to Manoeuvre (RAM) operations.	Additional	All
SN12	Application Document 6.2.4.7 Part 4 Marine Chapter 7 Shipping and Navigation	Disturbance to the Sunk.	The Applicant shall adhere to the approach to Restricted Ability to Manoeuvre operations in visibilities of below 2 nautical miles as outlined in the Outline Navigation and Installation Plan (NIP) secured within the Deemed Marine Licence.	Additional	All
SN13	Application Document 6.2.4.7 Part 4 Marine Chapter 7 Shipping and Navigation	Impacts to other vessels.	Construction planning for the Pegwell Bay landfall activities will take into account availability of small craft channels such that disruption to this vessel class is minimised as far as possible.	Additional	Construction
SN14	Application Document 6.2.4.8 Part 4 Marine Chapter 7 Shipping and Navigation	Impacts to other vessels.	UKHO Temporary/Preliminary Notices to be issued to ports, harbours and pilots, and any other appropriate parties prior to post-lay/as-built survey such that the basic positions of the	Additional	All

(1) ID	(2) ES Reference	(3) Potential Changes and Effects	(4) Measure Proposed	(5) Mitigation	(6) Project Phase
			cable are established and awareness among mariners can be raised immediately.		
SN15	Application Document 6.2.4.7 Part 4 Marine Chapter 7 Shipping and Navigation	Impacts to other vessels.	The use of temporary Aids to Navigation for exposed cable sections will be considered to reduce the risk of interactions with fishing gear and vessel anchors particularly near designated anchorages only if absolutely necessary. Details, extent and requirements of the markers will be discussed with Trinity House before being confirmed/established.	Additional	All
SN16	Application Document 6.2.4.7 Part 4 Marine Chapter 7 Shipping and Navigation	Impacts to other vessels.	The Undertaker will complete a risk assessment of maintenance activities (excluding inspections) to determine the collision risk level and suitable controls on a case-by-case basis such that both collision risk and disruption to maintenance activities are minimised.	Additional	All
SN17	Application Document 6.2.4.7 Part 4 Marine Chapter 7 Shipping and Navigation	Impacts to other vessels.	Cable protection measures will take due consideration of key areas of fishing activity identified in the baseline data, such that those sections of the cable identified as being buried or protected within such areas will minimise risk to gear snagging.	Additional	All
SN18	Application Document 6.2.4.7 Part 4 Marine Chapter 7 Shipping and Navigation	Impacts to other vessels.	The undertaker will minimise the amount of time the cable stays unprotected and exposed to potential interactions with anchoring vessels or fishing gear (anchor drag or gear snagging).	Additional	All
SN19	Application Document 6.2.4.7 Part 4 Marine Chapter 7 Shipping and Navigation	Disturbance to the Sunk.	The undertaker will minimise disruption to anchorage areas and pilot boarding areas by minimising time spent near these features during all phases, by considering appropriate cable burial depth and protection measures, and aiming for minimal reduction in under keel clearance as well as carefully considering the location of cable joints.	Additional	All
SN20	Application Document 6.2.4.7 Part 4 Marine Chapter 7 Shipping and Navigation	Disturbance to the Sunk.	No planned cable joints are permitted in the three Areas of Safeguarded Depth as defined in Application Document 9.104 Areas of Safeguarded Water Depth Plan.	Additional	All
SN21	Application Document 6.2.4.7 Part 4 Marine Chapter 7 Shipping and Navigation	Navigation within Sandwich Port and Haven/Pegwell Bay.	Any seabed hazard introduced by the Proposed Project at the Sandwich Flats will be appropriately marked, included in the appropriate navigational charts and managed by Sandwich Port and Haven authorities and their procedures.	Additional	All
SN22	Application Document 6.2.4.7 Part 4 Marine Chapter 7 Shipping and Navigation	Reduction in under-keel clearance.	Anticipated reductions in water depth greater than 5% will be discussed with the MCA and other relevant stakeholders such as Statutory Harbour Authorities (SHA) and Competent Harbour Authorities (CHA) noting that this 5% requirement does not conflict with areas where additional water depth requirements are in place (for instance within the Areas of Safeguarded Depth as specified in DCO Schedule 3 Requirement 17).	Additional	All
Commercial fisheries					
No specific mitigation measures included in this section					

(1) ID	(2) ES Reference	(3) Potential Changes and Effects	(4) Measure Proposed	(5) Mitigation	(6) Project Phase
Other sea users					
No specific mitigation measures included in this section					

3. Section 2 – Mitigation Route Map, Measures Secured Through Other Documents and Plans

General Onshore Scheme

Table 3.1 Register of Environmental Actions and Commitments – Onshore mitigation

(1) ID	(2) ES or Standalone Document Reference	(3) Potential Changes and Effects	(4) Mitigation commitment	(5) Mitigation	(6) Project Phase	(7) Securing Document/Plan	(8) Securing Mechanism
General Project Commitments (i.e. relates to more than one environmental topic)							
GG01	Application Document 7.5.2 Outline Onshore Construction Environmental Management Plan	Non-compliance with legislation, consents and permits	The Proposed Project will be delivered and operated in compliance with all relevant legislation, consents and permits.	Control and management measure	Construction	Application Document 7.5.3 Outline Offshore Construction Environmental Management Plan	DCO Schedule 3, Requirement 6 Onshore Construction Environmental Management Plan
GG02	Application Document 6.2.1.4 Part 1 Introduction Chapter 4 Description of the Proposed Project	Construction-related activities and emissions resulting in environmental effects on receptors	A detailed CEMP, Landscape and Ecological Management Plan (LEMP) and Construction Traffic Management and Travel Plan (CTMTP) will be produced and submitted to the relevant authority for approval prior to construction of the relevant stage of the Proposed Project to which it relates. The detailed plans produced will be substantially in accordance with the outline versions submitted as part of the application for development consent. In accordance with the Requirement 6 of Schedule 3 of the draft DCO, the contractor will need to comply with the approved detailed plans (including any amendments to the plans subsequently approved).	Control and management measure	Construction	Application Document 7.5.7.1 Outline Landscape and Ecological Management Plan – Suffolk Application Document 7.5.7.2 Outline Landscape and Ecological Management Plan – Kent Application Document 7.5.1.1 Outline Construction Traffic Management and Travel Plan – Suffolk Application Document 7.5.1.2 Outline Construction Traffic Management and Travel Plan – Kent	DCO Schedule 3, Requirement 6 Landscape and Ecological Management Plan (LEMP) – Suffolk DCO Schedule 3, Requirement 6 Landscape and Ecological Management Plan (LEMP) – Kent DCO Schedule 3, Requirement 6 Construction Traffic Management and Travel Plan – Suffolk DCO Schedule 3, Requirement 6 Construction Traffic Management and Travel Plan – Kent
GG03	Application Document 7.5.3 Outline Onshore Construction	Construction-related activities and emissions resulting in	The CEMP shall include measures to manage dust, waste, water, noise, vibration and soil during	Control and management measure	Construction	Application Document 7.5.3 Outline Onshore Construction Environmental Management Plan	DCO Schedule 3, Requirement 6 Onshore Construction

(1) ID	(2) ES or Standalone Document Reference	(3) Potential Changes and Effects	(4) Mitigation commitment	(5) Mitigation	(6) Project Phase	(7) Securing Document/Plan	(8) Securing Mechanism
	Environmental Management Plan	environmental effects on receptors	construction. The contractor(s) shall undertake daily site inspections to check conformance to the Management Plans. The title and contact number of person(s) accountable for issues relating to dust, waste, water, noise, vibration and soil will be displayed at the site boundary. Should any concerns be raised about site emissions contributing to intra-project cumulative effects on the amenity of residential receptors, road users or PRoW users, these will be considered by the contractor, who will seek to implement measures to further mitigate the emissions contributing to the cumulative effects. A response will be provided either directly or through existing community liaison notifications.				Environmental Management Plan
GG04	Application Document 7.5.3 Outline Onshore Construction Environmental Management Plan	Construction-related activities and emissions resulting in environmental effects on receptors	A suitably experienced Environmental Manager will be appointed for the duration of the construction phase. In addition, a qualified and experienced Environmental Clerk of Works (EnvCoW) will be available during the construction phase to advise, supervise and report on the delivery of the mitigation methods and controls outlined in the CEMP. The EnvCoW will monitor that the works proceed in accordance with relevant environmental DCO requirements and	Control and management measure	Construction	Application Document 7.5.3 Outline Onshore Construction Environmental Management Plan	DCO Schedule 3, Requirement 6 Onshore Construction Environmental Management Plan

(1) ID	(2) ES or Standalone Document Reference	(3) Potential Changes and Effects	(4) Mitigation commitment	(5) Mitigation	(6) Project Phase	(7) Securing Document/Plan	(8) Securing Mechanism
			adhere to the required good practice and mitigation measures. The EnvCoW will be supported as necessary by appropriate specialists, including ecologists, soil scientists, landscape architects and arboriculturists.				
GG05	Application Document 7.5.3 Outline Onshore Construction Environmental Management Plan	Construction-and maintenance related activities and emissions resulting in environmental effects on receptors	Construction workers and maintenance staff will undergo training to increase their awareness of environmental issues as applicable to their role on the project. Topics will include but not be limited to: • pollution prevention and pollution incident response; • dust management and control measures; • location and protection of sensitive environmental sites and features; • adherence to protected environmental areas around sensitive features; • working hours and noise and vibration reduction measures; • working with potentially contaminated materials; • waste management and storage; • flood risk response actions; and • agreed traffic routes, access points, etc.	Control and management measure	Construction / Operation (Maintenance)	Application Document 7.5.3 Outline Onshore Construction Environmental Management Plan	DCO Schedule 3, Requirement 6 Onshore Construction Environmental Management Plan

(1) ID	(2) ES or Standalone Document Reference	(3) Potential Changes and Effects	(4) Mitigation commitment	(5) Mitigation	(6) Project Phase	(7) Securing Document/Plan	(8) Securing Mechanism
			• providing training for site staff, particularly those working in public facing roles or in areas near residential communities, on how to appropriately respond to confrontational behaviour, verbal abuse, or hostility from members of the public. This should include guidance on deescalation techniques, reporting procedures, and support available to staff who experience such incidents.				
GG06	Application Document 6.2.2.1 Part 2 Suffolk Chapter 1 Landscape and Visual and Application Document 6.2.3.1 Part 3 Kent Chapter 1 Landscape and Visual	Risk that reinstatement does not meet the necessary standard	A full photographic/aerial footage and descriptive record of condition (pre-condition survey) will be carried out of the working areas that may be affected by the construction activities prior to these works commencing. This record will be available for comparison following completion of reinstatement works to ensure that the standard of reinstatement at least meets that recorded in the pre-condition survey, or as agreed in the LEMP or if the DCO provides otherwise, then in accordance with the DCO. The photographic record of condition will be compiled with the ability to locate individual photographic points.	Control and management measure	Construction	Application Document 7.5.3 Outline Onshore Construction Environmental Management Plan	DCO Schedule 3, Requirement 6 Onshore Construction Environmental Management Plan
GG07	Application Document 6.2.2.1 Part 2 Suffolk Chapter 1 Landscape and Visual and	Temporary change in land use, habitat loss	Land used temporarily will be reinstated (bearing in mind restrictions on	Control and management measure	Construction	Application Document 7.5.3 Outline Onshore Construction Environmental Management Plan	DCO Schedule 3, Requirement 6 Onshore Construction

(1) ID	(2) ES or Standalone Document Reference	(3) Potential Changes and Effects	(4) Mitigation commitment	(5) Mitigation	(6) Project Phase	(7) Securing Document/Plan	(8) Securing Mechanism
	Application Document 6.2.3.1 Part 3 Kent Chapter 1 Landscape and Visual Application Document 6.2.2.2 Part 2 Suffolk Chapter 2 Ecology and Biodiversity and Application Document 6.2.3.2 Part 3 Kent Chapter 2 Ecology and Biodiversity	and vegetation clearance	planting and land use) to its pre-construction condition and use, unless agreed otherwise, save where the DCO provides otherwise, in which case such reinstatement will be in accordance with the DCO. This is subject to the provisions of Article 27 of the draft DCO. Hedgerows, fences and walls (including associated earthworks and boundary features) will be reinstated to a similar style/specification and quality to those that were removed where possible, with landowner consultation.				Environmental Management Plan
GG08	Application Document 6.2.2.1 Part 2 Suffolk Chapter 1 Landscape and Visual and Application Document 6.2.3.1 Part 3 Kent Chapter 1 Landscape and Visual Application Document 6.2.2.2 Part 2 Suffolk Chapter 2 Ecology and Biodiversity and Application Document 6.2.3.2 Part 3 Kent Chapter 2 Ecology and Biodiversity	Avoid impacts on sensitive features to be retained	Where sensitive arboricultural features will be retained within or immediately adjacent to the Order Limits, an appropriate protective area will be established using appropriate fencing (in accordance with BS5837: 2012 Trees in Relation to Design, Demolition and Construction (British Standards Institute)) and signage and will be inspected, repaired and replaced as necessary. The protective areas will be shown on the Retention and Reinstatement Plans contained within the LEMP.	Control and management measure	Construction	Application Document 7.5.3 Outline Onshore Construction Environmental Management Plan	DCO Schedule 3, Requirement 6 Onshore Construction Environmental Management Plan
GG09	Application Document 7.5.3 Outline Onshore Construction Environmental Management Plan	N/A	The name and contact details for the Proposed Project will be displayed at the entrance to all compounds. This will include an emergency number.	Control and management measure	Construction	Application Document 7.5.3 Outline Onshore Construction Environmental Management Plan	DCO Schedule 3, Requirement 6 Onshore Construction Environmental Management Plan

(1) ID	(2) ES or Standalone Document Reference	(3) Potential Changes and Effects	(4) Mitigation commitment	(5) Mitigation	(6) Project Phase	(7) Securing Document/Plan	(8) Securing Mechanism
GG10	Application Document 7.5.3 Outline Onshore Construction Environmental Management Plan Application Document 6.2.1.4 Part 1 Introduction Chapter 4 Description of the Proposed Project	Impacts on sensitive receptors from construction-related nuisance	Any activity carried out or equipment located within a construction compound that may produce a noticeable nuisance, including but not limited to dust, noise, vibration and lighting, will be located away from sensitive receptors such as residential properties (where practical) or designated ecological sites. Where it is not practicable to avoid proximity to sensitive receptors, appropriate mitigation measures will be implemented to minimise any potential nuisance, and stakeholders will be given advanced notice of the proposed work, justification for the work and details of any proposed mitigation.	Control and management measure	Construction	Application Document 7.5.3 Outline Onshore Construction Environmental Management Plan	DCO Schedule 3, Requirement 6 Onshore Construction Environmental Management Plan
GG11	Application Document 7.5.3 Outline Onshore Construction Environmental Management Plan	Construction-related activities and emissions resulting in environmental effects on receptors	Appropriate site layout and housekeeping measures will be implemented by the contractor(s) at all construction sites. This will include but not be limited to: • preventing pests and vermin control and treating any infestation promptly, including arrangements for the proper storage and disposal of waste produced on site; • access gates will be located at least 10 m from receptors where possible; • inspecting and collecting any waste or litter found on site;	Control and management measure	Construction	Application Document 7.5.3 Outline Onshore Construction Environmental Management Plan	DCO Schedule 3, Requirement 6 Onshore Construction Environmental Management Plan

(1) ID	(2) ES or Standalone Document Reference	(3) Potential Changes and Effects	(4) Mitigation commitment	(5) Mitigation	(6) Project Phase	(7) Securing Document/Plan	(8) Securing Mechanism
			• locating or designing site offices and welfare facilities to limit the overlooking of residential properties; • locating designated smoking/vaping areas to avoid nuisance to neighbours; • managing staff/vehicles entering or leaving site, especially at the beginning and end of the working day; and • managing potential off-site contractor and visitor parking.				
GG12	Application Document 6.2.2.8 Part 2 Suffolk Chapter 8 Air Quality and Application Document 6.2.3.8 Part 3 Kent Chapter 8 Air Quality	Construction-related activities and emissions resulting in environmental effects on receptors	Plant and vehicles will conform to relevant applicable standards for the vehicle type as follows: • Euro 4 (NOx) for petrol cars, vans and minibuses; • Euro 6 (NOx and PM) for diesel cars, vans and minibuses; and • Euro VI (NOx and PM) for lorries, buses, coaches and Heavy Goods Vehicles (excluding specialist abnormal indivisible loads). Vehicles will be correctly maintained and operated in accordance with manufacturer's recommendations and in a responsible manner. All plant and vehicles will be required to switch off their engines when not in use and when it is safe to do so. In addition, plant and	Control and management measure	Construction	Application Document 7.5.3 Outline Onshore Construction Environmental Management Plan	DCO Schedule 3, Requirement 6 Onshore Construction Environmental Management Plan

(1) ID	(2) ES or Standalone Document Reference	(3) Potential Changes and Effects	(4) Mitigation commitment	(5) Mitigation	(6) Project Phase	(7) Securing Document/Plan	(8) Securing Mechanism
			vehicles will conform to relevant applicable standards for the vehicle type.				
GG13	Application Document 7.5.3 Outline Onshore Construction Environmental Management Plan	N/A	Materials and equipment will not be moved or handled unnecessarily. When loading and unloading materials from vehicles, including cable drums and excavated materials, drop heights will be limited.	Control and management measure	Construction	Application Document 7.5.3 Outline Onshore Construction Environmental Management Plan	DCO Schedule 3, Requirement 6 Onshore Construction Environmental Management Plan
GG14	Application Document 6.2.2.4 Part 2 Suffolk Chapter 4 Water Environment and Application Document 6.2.3.4 Part 3 Kent Chapter 4 Water Environment	Contamination of the water environment from fuels, oils or chemicals	Fuels, oils and chemicals will be clearly marked as to their contents and stored responsibly, in a secure, bunded area with an impervious base, away from sensitive water receptors. They will be stored a minimum of 10 m from watercourses, ponds (unless the watercourse is designated as a main river, when a buffer of 16 m shall be adhered to) and a minimum of 50m from springs, wells, boreholes and groundwater dependent terrestrial ecosystems and wetland habitats. Any spillages or leaks are to be dealt with promptly, and all waste disposed of in an appropriate manner. Before any tank is removed or perforated, all contents and residues will be emptied by a competent operator for safe disposal at a licensed facility. All refuelling, oiling and greasing of construction plant and equipment will take place in an appropriate bunded area that includes an	Control and management measure	Construction	Application Document 7.5.3 Outline Onshore Construction Environmental Management Plan	DCO Schedule 3, Requirement 6 Onshore Construction Environmental Management Plan

(1) ID	(2) ES or Standalone Document Reference	(3) Potential Changes and Effects	(4) Mitigation commitment	(5) Mitigation	(6) Project Phase	(7) Securing Document/Plan	(8) Securing Mechanism
			impervious base and where possible interceptor drains. All pumps, generators and similarly fuelled equipment are to be placed on drip trays or in a bunded area and all valves, hoses and associated re-fuelling equipment will be regularly inspected and turned off and securely locked when not in use. Vehicles and plant will not be left unattended during refuelling. Appropriate spill kits will be made easily accessible for these activities. Potentially hazardous materials used during construction will be safely and securely stored including use of secondary containment where appropriate. Stored flammable liquids such as diesel will be protected either by double walled tanks or stored in a bunded area with a capacity of 110% of the maximum stored volume. Spill kits will be located nearby.				
GG15	Application Document 6.2.2.4 Part 2 Suffolk Chapter 4 Water Environment and Application Document 6.2.3.4 Part 3 Kent Chapter 4 Water Environment	Contamination of the water environment from site runoff	Runoff across the site will be controlled through a variety of methods including header drains, 10m buffer zones for all construction and associated activities such as refuelling and storage of materials around watercourses, on-site ditches, silt traps and bunding. Silt fences will be used to trap silt prior to any discharge to surface waters. There will be no intentional discharge of site runoff to ditches,	Control and management measure	Construction	Application Document 7.5.3 Outline Onshore Construction Environmental Management Plan	DCO Schedule 3, Requirement 6 Onshore Construction Environmental Management Plan

(1) ID	(2) ES or Standalone Document Reference	(3) Potential Changes and Effects	(4) Mitigation commitment	(5) Mitigation	(6) Project Phase	(7) Securing Document/Plan	(8) Securing Mechanism
			watercourses, wetland habitats, drains or sewers without all relevant permits being in place and the discharge receiving appropriate treatment (except in the case of an emergency). Where in over pumping takes place associated with channel works, measures to prevent downstream siltation would be implemented. Examples include the deployment of sedi-mats, straw bales/straw bale cages and rock filter dams. Specific measures for each work site would be selected in accordance with the size of the watercourse and the volume of flow.				
GG16	Application Document 6.2.2.4 Part 2 Suffolk Chapter 4 Water Environment and Application Document 6.2.3.4 Part 3 Kent Chapter 4 Water Environment Application Document 6.2.2.8 Part 2 Suffolk Chapter 8 Air Quality and Application Document 6.2.3.8 Part 3 Kent Chapter 8 Air Quality	Contamination of the water environment from wash down of site vehicles and equipment	Where required, wash down of vehicles and equipment will take place in designated areas within construction compounds. Wash water will be prevented from passing untreated into watercourses, wetland habitats and groundwater. Appropriate measures will include use of sediment traps. Ensure there is an adequate area of hard surfaced road between the wash facility and the site exit, whenever site size and layout permits.	Control and management measure	Construction	Application Document 7.5.3 Outline Onshore Construction Environmental Management Plan	DCO Schedule 3, Requirement 6 Onshore Construction Environmental Management Plan
GG17	Application Document 6.2.2.8 Part 2 Suffolk Chapter 8 Air Quality and Application Document 6.2.3.8 Part 3 Kent Chapter 8 Air Quality	Impacts on sensitive receptors from excessive dust or mud deposits	Where required, wheel washing will be provided at each main construction works compound access point on to the highway and at any location where there	Control and management measure	Construction	Application Document 7.5.3 Outline Onshore Construction Environmental Management Plan	DCO Schedule 3, Requirement 6 Onshore Construction Environmental Management Plan

(1) ID	(2) ES or Standalone Document Reference	(3) Potential Changes and Effects	(4) Mitigation commitment	(5) Mitigation	(6) Project Phase	(7) Securing Document/Plan	(8) Securing Mechanism
			is a risk of mud and debris being tracked onto the public highway. Wash water and rainfall runoff from concrete batching plant areas will be prevented from passing untreated into watercourses and groundwater. Flows from these designated impermeable areas will either be discharged to foul sewer or be collected and contained on site in accordance with EA Regulatory Position Statement 287, for example using leak proof skips, settling tanks (provided with 10% freeboard to prevent overtopping), prior to treatment to separate solids and neutralise pH e.g. using approved solutions or CO_2. If water associated with concrete batching still cannot be discharged to the foul sewer it will be removed off site by tanker. Road sweepers will also be deployed on public roads where necessary to prevent excessive dust or mud deposits.				
GG18	Application Document 6.2.2.8 Part 2 Suffolk Chapter 8 Air Quality and Application Document 6.2.3.8 Part 3 Kent Chapter 8 Air Quality	Impacts on sensitive receptors from excessive dust or mud deposits	Use water-assisted dust sweeper(s) on the access and local roads, to remove, as necessary, any material tracked out of the site. Avoid dry sweeping of large areas.	Control and management measure	Construction	Application Document 7.5.3 Outline Onshore Construction Environmental Management Plan	DCO Schedule 3, Requirement 6 Onshore Construction Environmental Management Plan
GG19	Application Document 6.2.2.8 Part 2 Suffolk Chapter 8 Air Quality and Application	Impacts on receptors from unprotected	Earthworks and stockpiled soil will be protected by covering, seeding or using	Control and management measure	Construction	Application Document 7.5.3 Outline Onshore Construction Environmental Management Plan	DCO Schedule 3, Requirement 6 Onshore Construction Environmental Management Plan

(1) ID	(2) ES or Standalone Document Reference	(3) Potential Changes and Effects	(4) Mitigation commitment	(5) Mitigation	(6) Project Phase	(7) Securing Document/Plan	(8) Securing Mechanism
	Document 6.2.3.8 Part 3 Kent Chapter 8 Air Quality	earthworks or stockpiled soil	water suppression where appropriate.				
GG20	Application Document 6.2.2.8 Part 2 Suffolk Chapter 8 Air Quality and Application Document 6.2.3.8 Part 3 Kent Chapter 8 Air Quality	Increase in dust emissions and adverse effects on human and ecological receptors	Bonfires and the burning of waste material will be prohibited.	Control and management measure	Construction	Application Document 7.5.3 Outline Onshore Construction Environmental Management Plan	DCO Schedule 3, Requirement 6 Onshore Construction Environmental Management Plan
GG21	Application Document 6.2.2.1 Part 2 Suffolk Chapter 1 Landscape and Visual and Application Document 6.2.3.1 Part 3 Kent Chapter 1 Landscape and Visual Application Document 6.2.2.2 Part 2 Suffolk Chapter 2 Ecology and Biodiversity and Application Document 6.2.3.2 Part 3 Kent Chapter 2 Ecology and Biodiversity	Impacts on human and ecological receptors from construction lighting	Construction lighting will be of the lowest levels necessary to safely perform each task. It will be designed, positioned and directed to reduce the intrusion into adjacent properties, protected species and habitats (e.g. watercourses) and designated conservation sites.	Control and management measure	Construction	Application Document 7.5.3 Outline Onshore Construction Environmental Management Plan	DCO Schedule 3, Requirement 6 Onshore Construction Environmental Management Plan
GG22	Application Document 7.5.3 Outline Onshore Construction Environmental Management Plan	Increase in waste and risk of damage or contamination of waste, increasing the amount of waste sent to landfill	A Material and Waste Management Plan will be submitted to and approved by the local planning authority prior to construction as secured by Requirement 6 in the draft DCO. The contractor(s) will maintain and monitor this plan throughout the construction phase and oversee that any sub-contractor(s) adhere to it. The Material and Waste Management Plan will set out, in an auditable manner, how waste will be reduced, reused, managed and disposed of in accordance with the waste hierarchy. Dedicated areas will be identified on the construction plans to allow materials and wastes to be segregated at source,	Control and management measure	Construction	Application Document 7.5.3 Outline Onshore Construction Environmental Management Plan	DCO Schedule 3, Requirement 6 Materials and Waste Management Plan

(1) ID	(2) ES or Standalone Document Reference	(3) Potential Changes and Effects	(4) Mitigation commitment	(5) Mitigation	(6) Project Phase	(7) Securing Document/Plan	(8) Securing Mechanism
			reducing the risk of damage or contamination.				
GG23	Application Document 7.5.3 Outline Onshore Construction Environmental Management Plan	N/A	A construction phase Safety Health and Environment (SHE) Plan will be prepared by the contractor prior to construction works commencing and will ensure that adequate arrangements and welfare facilities are in place to cover the safety of construction staff, visitors to site, the public and compliance with appropriate legislation and guidance.	Control and management measure	Construction	Application Document 7.5.3 Outline Onshore Construction Environmental Management Plan	DCO Schedule 3, Requirement 6 Onshore Construction Environmental Management Plan
GG24	Application Document 7.5.3 Outline Onshore Construction Environmental Management Plan	Occurrence of unplanned events (e.g. site flooding, pollution incidents)	An Incident Response Plan will be developed by the contractor for the construction phase. This will be prepared prior to construction works commencing and thereafter complied with. It will outline procedures that will be implemented in case of unplanned events, including but not limited to site flooding and pollution incidents and flood defence damage contingencies. Local authorities and the Environment Agency will be informed of any large scale incidents under the Incident Response Plan. Smaller scale issues will be recorded in a register that will be made available to local authorities and the Environment Agency for review on request.	Control and management measure	Construction	Application Document 7.5.3 Outline Onshore Construction Environmental Management Plan	DCO Schedule 3, Requirement 6 Onshore Construction Environmental Management Plan
GG25	Application Document 7.5.3 Outline Onshore Construction Environmental Management Plan	Impacts on receptors from ground disturbance	Stone pads or equivalent will be installed in areas where heavy equipment, such as cranes and piling	Control and management measure	Construction	Application Document 7.5.3 Outline Onshore Construction Environmental Management Plan	DCO Schedule 3, Requirement 6 Onshore Construction Environmental Management Plan

(1) ID	(2) ES or Standalone Document Reference	(3) Potential Changes and Effects	(4) Mitigation commitment	(5) Mitigation	(6) Project Phase	(7) Securing Document/Plan	(8) Securing Mechanism
			rigs, will be used. The stone pads will provide stable working areas and will reduce disturbance to the ground. The stone pad area will be stripped of the topsoil, which will be stored and reinstated in accordance with the soil management measures contained in the CEMP. Archaeological mitigation will be undertaken, as appropriate, in areas where the pads have the potential to impact on archaeological remains. The mitigation will be agreed with the relevant stakeholder and will be in line with the relevant Onshore Overarching Written Scheme of Investigation.				
GG26	Application Document 6.2.2.1 Part 2 Suffolk Chapter 1 Landscape and Visual and Application Document 6.2.3.1 Part 3 Kent Chapter 1 Landscape and Visual	Fencing security requirements	Where working areas are fenced, the type of fencing installed will depend on the area to be fenced and will take into consideration the level of security required in relation to the surrounding land and public access, rural or urban environment and arable or stock farming. Consultation on the type of fencing will be undertaken with the relevant landowner and tenant where required and where there are existing surface water flow paths, the fencing type will not cut off/block these routes. For some locations the fence used may also serve to provide acoustic and visual screening of the work sites and reduce the potential for disturbance of users in the surrounding areas.	Control and management measure	Construction	Application Document 7.5.3 Outline Onshore Construction Environmental Management Plan	DCO Schedule 3, Requirement 6 Onshore Construction Environmental Management Plan

(1) ID	(2) ES or Standalone Document Reference	(3) Potential Changes and Effects	(4) Mitigation commitment	(5) Mitigation	(6) Project Phase	(7) Securing Document/Plan	(8) Securing Mechanism
			Fencing will be regularly inspected and maintained and removed as part of the demobilisation unless otherwise specified.				
GG27	Application Document 6.2.2.10 Part 2 Suffolk Chapter 10 Socio-Economics, Recreation, and Tourism and Application Document 6.2.3.10 Part 3 Kent Chapter 10 Socio-Economics, Recreation, and Tourism	Impacts on human receptors from noise during construction works	Members of the community (including seldom heard and vulnerable groups) and local businesses will be kept informed regularly of the works through active community liaison. This will include notification of noisy activities, heavy traffic periods and start and end dates of key phasing. A contact number will be provided which members of the public can use to raise any concerns or complaints about the Proposed Project. All construction-related complaints will be logged by the contractor(s) in a complaints register, together with a record of the responses given and actions taken. This will be made available to local authorities for review on request. Where comments or concerns are raised in relation to intra-project cumulative effects on the amenity of residential receptors, road users or PRoW users, the contractor will consider if there are proportionate and practicable measures that can be implemented to address the contributing impacts and seek to implement any such measures.	Control and management measure	Construction	Application Document 7.5.3 Outline Onshore Construction Environmental Management Plan	DCO Schedule 3, Requirement 6 Onshore Construction Environmental Management Plan
GG28	Application Document 6.2.2.4 Part 2 Suffolk Chapter 4 Water Environment and Application	Impacts to watercourses during	Ensure equipment is readily available on site to clean any dry spillages,	Control and management measure	Construction / Operation (Maintenance)	Application Document 7.5.3 Outline Onshore Construction Environmental Management Plan	DCO Schedule 3, Requirement 6 Onshore Construction

(1) ID	(2) ES or Standalone Document Reference	(3) Potential Changes and Effects	(4) Mitigation commitment	(5) Mitigation	(6) Project Phase	(7) Securing Document/Plan	(8) Securing Mechanism
	Document 6.2.3.4 Part 3 Kent Chapter 4 Water Environment	construction and maintenance works	and clean up spillages as soon as reasonably practicable after the event using wet cleaning methods.				Environmental Management Plan
GG29	Not applicable	Non-compliance with design safety standards	The Proposed Project will be designed to comply with design safety standards including National Electricity Transmission System Security and Quality of Supply Standards and the suite of National Grid policies and processes which contains details on design standards required to be met when designing, constructing and operating its project.	Embedded	Construction / Operation	Application Document 9.84 Register of Environmental Actions and Commitments (REAC)	National Electricity Transmission System Security and Quality of Supply Standards and the suite of National Grid policies and processes which contains details on design standards required to be met when designing, constructing and operating its projects.
GG30	Not applicable	Harm to human health from exposure to electric and magnetic fields	The Proposed Project design will be compliant with the guidelines and policies relating to electromagnetic fields stated in National Policy Statement EN-5, including the International Commission on Non-Ionizing Radiation Protection guidelines (1998).	Embedded	Operation	Application Document 9.84 Register of Environmental Actions and Commitments (REAC)	Secured by design of project
GG31	Application Document 6.2.1.4 Part 1 Introduction Chapter 4 Description of the Proposed Project	Environmental impacts associated with decommissioning works	A written scheme of decommissioning will be submitted for approval to the relevant planning authority at least six months prior to any decommissioning works. This would consider environmental impacts and mitigation as required at that point in time, including to ecological receptors and designated sites.	Control and management measures	Decommissioning	Application Document 9.84 Register of Environmental Actions and Commitments (REAC)	DCO Schedule 3, Requirement 13 Written Scheme of Decommissioning

(1) ID	(2) ES or Standalone Document Reference	(3) Potential Changes and Effects	(4) Mitigation commitment	(5) Mitigation	(6) Project Phase	(7) Securing Document/Plan	(8) Securing Mechanism
GG32	Application Document 2.13 Part 2 Suffolk Chapter 13 Suffolk Onshore Scheme Inter-Project Cumulative Effects	Inter-project cumulative effect on PRoW	The Public Rights of Way Management Plan will consider whether any additional measures can be incorporated to reduce the potential for cumulative effects resulting from PRoW closures / diversions through coordination with National Grid Ventures, East Anglia ONE North Offshore Windfarm and East Anglia TWO Offshore Windfarm.	Control and management measures	Construction	Public Right of Way Management Plan – Suffolk Application Document 7.5.3 Outline Onshore Construction Environmental Management Plan	DCO Schedule 3, Requirement 6 Public Right of Way Management Plan – Suffolk and Onshore Construction Environmental Management Plan
GG39	Application Document 7.5.3 Outline Onshore Construction Environmental Management Plan	Disturbance / damage caused by UXO	The Applicant will implement the mitigation measures in accordance with the recommendations set out within the detailed UXO risk assessment reports appended to the Onshore oCEMP. Where the Applicant has influence over the controlled explosion of terrestrial UXO they will consult Natural England and RSPB in advance to take measures and protect Sites of Specific Scientific Interest where practicable.	Control and management measures	Construction	Application Document 7.5.3 Outline Onshore Construction Environmental Management Plan	DCO Schedule 3, Requirement 6 Onshore Construction Environmental Management Plan
GG40	Application Document 7.5.3 Outline Onshore Construction Environmental Management Plan	Intra-project cumulative effects	Once detailed design is complete and detailed construction and programme information is available, the undertaker commits to undertaking a review of the intra-project cumulative effects assessment submitted with the application (as amended during the Examination) to consider: 1. if the significant intra-project cumulative effects are still considered likely to occur; 2. if they are still	Control and management measures	Construction	Application Document 7.5.3 Outline Onshore Construction Environmental Management Plan	DCO Schedule 3, Requirement 6 Onshore Construction Environmental Management Plan

(1) ID	(2) ES or Standalone Document Reference	(3) Potential Changes and Effects	(4) Mitigation commitment	(5) Mitigation	(6) Project Phase	(7) Securing Document/Plan	(8) Securing Mechanism
			considered likely to occur, what additional appropriate mitigation measures may be applied to reduce their significance; 3) if no such mitigation measures are available, what additional appropriate offsetting measures may be applied following the mitigation hierarchy; and 4) any such mitigation or offsetting measures, if applicable, must be agreed with the relevant local authorities, including a timetable for their implementation, and once agreed shall be implemented in accordance with the terms of such timetable.				
GG44	Application Document 7.5.3 Outline Onshore Construction Environmental Management Plan		Contact details for the Environmental Clerk of Works and Ecological Clerk of Works overseeing works on land owned by the National Trust will be provided to National Trust. Should any environmental issues arise during construction on National Trust's land that are noted by the Environmental Clerk of Works or Ecological Clerk of Works, National Trust will be notified and a meeting offered to discuss actions required, in line with the procedures specified within the Incident Response Plan described in GG24. The Incident Response Plan will include provisions for National Trust to be fully involved in discussions should an incident occur on land owned by National Trust.	Control and management measure	Construction	Application Document 7.5.3 Outline Onshore Construction Environmental Management Plan	DCO Schedule 3, Requirement 6 Onshore Construction Environmental Management Plan

(1) ID	(2) ES or Standalone Document Reference	(3) Potential Changes and Effects	(4) Mitigation commitment	(5) Mitigation	(6) Project Phase	(7) Securing Document/Plan	(8) Securing Mechanism
			The Applicant will have regard to any representations from National Trust on actions to be taken to remedy any incident on National Trust's land.				
Landscape and Visual							
LV01	Application Document 6.2.2.1 Part 2 Suffolk Chapter 1 Landscape and Visual and Application Document 6.2.3.1 Part 3 Kent Chapter 1 Landscape and Visual	Impacts on landscape and visual receptors and biodiversity receptors from vegetation clearance	The contractor(s) will retain vegetation where practicable. Where vegetation is lost and trees cannot be replaced in situ due to the restrictions associated with land rights required for operational safety, native shrub planting approved by National Grid will be used as a replacement, in accordance with the outline vegetation reinstatement plans included within the Outline Landscape Environment Management Plan.	Control and management measure	Construction	Application Document 7.5.7.1 Outline Landscape and Ecological Management - Suffolk Application Document 7.5.7.2 Outline Landscape and Ecological Management - Kent	DCO Schedule 3, Requirement 6 Landscape and Ecological Management Plan (LEMP) – Suffolk DCO Schedule 3, Requirement 6 Landscape and Ecological Management Plan (LEMP) – Kent
LV02	Application Document 6.2.2.1 Part 2 Suffolk Chapter 1 Landscape and Visual and Application Document 6.2.3.1 Part 3 Kent Chapter 1 Landscape and Visual	Impacts on trees during construction	The contractor(s) will apply the relevant protective principles set out in British Standard (BS) 5837:2012: Trees in relation to design, demolition and construction. This will be applied to trees within and immediately adjacent to the Order Limits as identified within Application Document 6.10 Arboricultural Impact Assessment Part 1 of 2 [APP-294] and Arboricultural Impact Assessment Part 2 of 2 [APP-295]. All works to high grade trees, including trees under Tree Preservation Orders, and veteran and ancient trees,	Control and management measure	Construction	Application Document 7.5.7.1 Outline Landscape and Ecological Management - Suffolk Application Document 7.5.7.2 Outline Landscape and Ecological Management - Kent	DCO Schedule 3, Requirement 6 Landscape and Ecological Management Plan (LEMP) – Suffolk DCO Schedule 3, Requirement 6 Landscape and Ecological Management Plan (LEMP) – Kent

(1) ID	(2) ES or Standalone Document Reference	(3) Potential Changes and Effects	(4) Mitigation commitment	(5) Mitigation	(6) Project Phase	(7) Securing Document/Plan	(8) Securing Mechanism
			will be undertaken or supervised by a suitably qualified arboriculturist.				
LV05	Application Document 6.2.2.1 Part 2 Suffolk Chapter 1 Landscape and Visual and Application Document 6.2.3.1 Part 3 Kent Chapter 1 Landscape and Visual	Impacts on the quality of soil	Subsoil and topsoil will be separated, documented and stored and replaced as close as possible to the location of origin to ensure no degradation in quality, with reinstatement undertaken as soon as possible after completion of construction of each section/area of works.	Control and management measure	Construction	Application Document 7.5.10.1 Outline Soil Management Plan – Suffolk Application Document 7.5.10.2 Outline Soil Management Plan – Kent	DCO Schedule 3, Requirement 6 Soil Management Plan – Suffolk DCO Schedule 3, Requirement 6 Soil Management Plan – Kent
LV06	Application Document 6.2.2.1 Part 2 Suffolk Chapter 1 Landscape and Visual and Application Document 6.2.3.1 Part 3 Kent Chapter 1 Landscape and Visual	Impacts on the quality of soil	Temporary and separate placement of topsoil and subsoil will be stored adjacent to the trench where possible, with the additional height of the subsoil storage used on whichever side requires greater screening benefit, where practicable. In some locations stockpiles will be remote from the trench, such as at pinch points where the corridor has been narrowed, and the additional height of the storage will be sensitively placed as far as possible.	Control and management measure	Construction	Application Document 7.5.10.1 Outline Soil Management Plan – Suffolk Application Document 7.5.10.2 Outline Soil Management Plan - Kent	DCO Schedule 3, Requirement 6 Soil Management Plan – Suffolk DCO Schedule 3, Requirement 6 Soil Management Plan – Kent
LV07	Application Document 6.2.2.1 Part 2 Suffolk Chapter 1 Landscape and Visual and Application Document 6.2.3.1 Part 3 Kent Chapter 1 Landscape and Visual	Impacts on landscape and visual receptors	Sensitive routeing and siting of infrastructure and temporary works. Specific details relevant to Suffolk and Kent are discussed in Tables 1.2 and 1.3 of this REAC.	Embedded	Construction / Operation	Application Document 7.12.1 Design Principles - Suffolk Application Document 7.12.2 Design Principles - Kent	DCO Schedule 3, Requirement 3
Ecology and Biodiversity							
B01	Application Document 6.2.2.2 Part 2 Suffolk Chapter 2 Ecology and Biodiversity and Application Document 6.2.3.2 Part 3 Kent Chapter 2 Ecology and Biodiversity	Impacts on protected species	The contractor(s) will comply with relevant protected species legislation. Appropriate licences will be obtained where necessary from	Control and management measure	Construction	Application Document 7.5.7.1 Outline Landscape and Ecological Management– Suffolk Application Document 7.5.7.2 Outline Landscape and Ecological Management - Kent	DCO Schedule 3, Requirement 6 Landscape and Ecological Management Plan (LEMP) – Suffolk

(1) ID	(2) ES or Standalone Document Reference	(3) Potential Changes and Effects	(4) Mitigation commitment	(5) Mitigation	(6) Project Phase	(7) Securing Document/Plan	(8) Securing Mechanism
			Natural England for all works affecting protected species as identified by the ES and through pre-construction surveys. Should protected species be identified during construction that require a licenced works in that location will be stopped, when safe to do so, until an appropriate licence is in place. All applicable works will be undertaken in accordance with the relevant requirements and conditions set out in those licences.				DCO Schedule 3, Requirement 6 Landscape and Ecological Management Plan (LEMP) – Kent
B02	Application Document 6.2.2.2 Part 2 Suffolk Chapter 2 Ecology and Biodiversity and Application Document 6.2.3.2 Part 3 Kent Chapter 2 Ecology and Biodiversity	Impacts on breeding birds from vegetation clearance	Where possible vegetation with the potential to support breeding birds will not be removed during the breeding bird season (March to September inclusive). If any works become necessary during the breeding bird season, works will be supervised by an EnvCoW. Appropriate protection measures will be put in place should active nests be found. These will include exclusion zones around active nests until chicks fledge or nests become inactive as determined by monitoring by the EnvCoW.	Control and management measure	Construction	Application Document 7.5.7.1 Outline Landscape and Ecological Management - Suffolk Application Document 7.5.7.2 Outline Landscape and Ecological Management- Kent	DCO Schedule 3, Requirement 6 Landscape and Ecological Management Plan (LEMP) – Suffolk DCO Schedule 3, Requirement 6 Landscape and Ecological Management Plan (LEMP) – Kent
B03	Application Document 6.2.2.2 Part 2 Suffolk Chapter 2 Ecology and Biodiversity and Application Document 6.2.3.2 Part 3 Kent Chapter 2 Ecology and Biodiversity	Impacts on biodiversity receptors from potential animal entrapment	As far as possible, trenches and excavations should not be left open overnight. Where there will be a risk of animal entrapment, a means of escape (such as a plank that can be used as a ladder) will be installed into	Control and management measure	Construction	Application Document 7.5.7.1 Outline Landscape and Ecological Management Plan- Suffolk Application Document 7.5.7.2 Outline Landscape and Ecological Management Plan- Kent	DCO Schedule 3, Requirement 6 Landscape and Ecological Management Plan (LEMP) – Suffolk DCO Schedule 3, Requirement 6 Landscape and Ecological Management Plan (LEMP) – Kent

(1) ID	(2) ES or Standalone Document Reference	(3) Potential Changes and Effects	(4) Mitigation commitment	(5) Mitigation	(6) Project Phase	(7) Securing Document/Plan	(8) Securing Mechanism
			all excavations that are left open overnight.				
B04	Application Document 6.2.2.2 Part 2 Suffolk Chapter 2 Ecology and Biodiversity and Application Document 6.2.3.2 Part 3 Kent Chapter 2 Ecology and Biodiversity	Impacts on biodiversity receptors from potential spread of invasive species	To control the spread of invasive weeds in accordance with the Wildlife and Countryside Act 1981, any plant, machinery, or footwear used in areas containing invasive species (terrestrial and aquatic), such as Japanese knotweed, Azolla fern, and Himalayan balsam and Nuttal's waterweed, will be thoroughly cleaned following the Check, Clean, Dry protocol outlined by the GB Non-Native Species Secretariat. Cleaning will take place at contained wash stations designed to remove all soil and debris from equipment and individuals before leaving site. Water used for cleaning vehicles and footwear will be treated as contaminated waste and managed appropriately to prevent the spread of invasive species via seeds, rhizomes, or plant fragments. Pre-commencement checks/surveys for presence of Invasive Non-Native Species (INNS) in works areas would be undertaken by the Environmental Clerk of Works (EnvCoW) and a Biosecurity Management Plan (BMP) will be produced for the project following the latest guidance on from the Great Britain (GB) non-native species secretariat.	Control and management measure	Construction	Application Document 7.5.3 Outline Onshore Construction Environmental Management Plan	DCO Schedule 3, Requirement 6 Onshore Construction Environmental Management Plan

(1) ID	(2) ES or Standalone Document Reference	(3) Potential Changes and Effects	(4) Mitigation commitment	(5) Mitigation	(6) Project Phase	(7) Securing Document/Plan	(8) Securing Mechanism
B05	Application Document 6.2.2.2 Part 2 Suffolk Chapter 2 Ecology and Biodiversity and Application Document 6.2.3.2 Part 3 Kent Chapter 2 Ecology and Biodiversity	Impacts on common reptiles from vegetation clearance	All habitats suitable for common reptiles will be subject to two-stage habitat manipulation that will take place between mid-March and mid-October. Firstly, vegetation will be cut to approximately 150 mm (with the arisings removed) under the supervision of an EnvCoW and the site left for a minimum of two days to allow reptiles to naturally disperse from the area. Secondly, vegetation will be cleared down to ground level under the supervision of an EnvCoW. Vegetation will be cleared using appropriate equipment based on the type of vegetation to be removed, the area affected, and the risk of mortality or injuring reptiles. Construction works could commence immediately after completion of the second stage. Reptile hibernacula will be retained and protected during construction where practicable. If unavoidable, the removal of vegetation and groundworks at hibernacula will be timed to avoid the hibernation season (late October to early March). Replacement hibernacula and refugia will be provided.	Control and management measure	Construction	Application Document 7.5.7.1 Outline Landscape and Ecological Management- Suffolk Application Document 7.5.7.2 Outline Landscape and Ecological Management- Kent	DCO Schedule 3, Requirement 6 Landscape and Ecological Management Plan (LEMP) – Suffolk DCO Schedule 3, Requirement 6 Landscape and Ecological Management Plan (LEMP) – Kent
B06	Application Document 6.2.2.2 Part 2 Suffolk Chapter 2 Ecology and Biodiversity and Application Document 6.2.3.2 Part 3 Kent Chapter 2 Ecology and Biodiversity	Impacts on bat roosts from vegetation clearance	Where necessary, alternative roost structures (bat boxes) will be provided (with landowner consent) on retained trees within the Order Limits or areas outside of the Order Limits agreed with relevant	Control and management measure	Construction	Application Document 7.5.7.1 Outline Landscape and Ecological Management - Suffolk Application Document 7.5.7.2 Outline Landscape and Ecological Management - Kent	DCO Schedule 3, Requirement 6 Landscape and Ecological Management Plan (LEMP) – Suffolk DCO Schedule 3, Requirement 6 Landscape and Ecological

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			landowners. Three boxes will be provided for each tree with moderate bat roost potential to be felled. Five boxes will be provided for each tree with high bat roost potential to be felled.				Management Plan (LEMP) – Kent
B07	Application Document 6.2.2.2 Part 2 Suffolk Chapter 2 Ecology and Biodiversity and Application Document 6.2.3.2 Part 3 Kent Chapter 2 Ecology and Biodiversity	Impacts on hedgerows and hedgerow fauna during construction works	Where the works require the crossing or removal of hedgerows, the gap will be reduced to a width required for safe working. Where hedge removals are necessary, 'dead hedging' should be used in the interim periods to retain connectivity during construction and ensure a gap no larger than 10 m exists at night, in line with B36. Dead hedging can comprise vegetation arisings or artificial provision, such as willow screening panels or Heras fencing covered in camouflage netting. New hedgerow planting will contain native, woody species of local provenance.	Control and management measure	Construction	Application Document 7.5.7.1 Outline Landscape and Ecological Management - Suffolk Application Document 7.5.7.2 Outline Landscape and Ecological Management - Kent	DCO Schedule 3, Requirement 6 Landscape and Ecological Management Plan (LEMP) – Suffolk DCO Schedule 3, Requirement 6 Landscape and Ecological Management Plan (LEMP) – Kent
B08	Application Document 6.2.2.2 Part 2 Suffolk Chapter 2 Ecology and Biodiversity and Application Document 6.2.3.2 Part 3 Kent Chapter 2 Ecology and Biodiversity	Injury to fish or eels	During culvert installation there would be a watching brief and fish rescue where required. Where over pumping is required, pumps would be fitted with 2mm screens to prevent injury to fish or eels.	Control and management measure	Construction	Application Document 7.5.3 Outline Onshore Construction Environmental Management Plan	DCO Schedule 3, Requirement 6 Onshore Construction Environmental Management Plan
B09	Application Document 6.2.2.2 Part 2 Suffolk Chapter 2 Ecology and Biodiversity and Application Document 6.2.3.2 Part 3 Kent Chapter 2 Ecology and Biodiversity	Impacts from potential frac out	Measures to manage risk of frac out: • Ensuring sufficient surveys have been undertaken to understand the ground conditions to inform the final design;	Control and management measure	Construction	Application Document 7.5.3 Outline Onshore Construction Environmental Management Plan	DCO Schedule 3, Requirement 6 Onshore Construction Environmental Management Plan

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			• Design a profile sufficiently deep for the methodology and conditions, with hydrofracture modelling used to check that there is sufficient factor of safety; • Use of a drilling fluids engineer to design and monitor the fluid properties; • Ensure that the trenchless bore is sufficiently clean of cuttings during drilling • Monitoring fluid pressures in the bore, and returns to the entry pit during drilling; • The use of “spotters”, personnel stationed above the onshore drill line to look for any frac out or break out; and • If drilling fluid losses occur, lost circulation material (LCM) may be added to seal the ground. As a last resort, cementitious grout may be used to seal fractures.				
B12	Application Document 6.2.2.2 Part 2 Suffolk Chapter 2 Ecology and Biodiversity and Application Document 6.2.3.2 Part 3 Kent Chapter 2 Ecology and Biodiversity	Impact from the loss of vegetation	Mature vegetation removed from hedgerows and ditches will be retained as close to the area of removal as possible, retaining intact root balls, where feasible and desirable, such that it can be re-used. Any trees in their out-of-ground phase will be monitored to inform any watering or other	Embedded	Construction	Application Document 7.5.7.1 Outline Landscape and Ecological Management- Suffolk Application Document 7.5.7.2 Outline Landscape and Ecological Management-Kent	DCO Schedule 3, Requirement 6 Landscape and Ecological Management Plan (LEMP) – Suffolk DCO Schedule 3, Requirement 6 Landscape and Ecological Management Plan (LEMP) – Kent

(1) ID	(2) ES or Standalone Document Reference	(3) Potential Changes and Effects	(4) Mitigation commitment	(5) Mitigation	(6) Project Phase	(7) Securing Document/Plan	(8) Securing Mechanism
			management for their survival.				
B13	Application Document 6.2.2.2 Part 2 Suffolk Chapter 2 Ecology and Biodiversity and Application Document 6.2.3.2 Part 3 Kent Chapter 2 Ecology and Biodiversity	Impact from the loss of hedgerows and marginal vegetation	Hedgerow gaps will be planted once works are complete with 'light standards' or feathered trees, while gaps in ditch marginal vegetation will be planted with mature emergent vegetation purchased from nurseries.	Embedded	Construction	Application Document 7.5.7.1 Outline Landscape and Ecological Management- Suffolk Application Document 7.5.7.2 Outline Landscape and Ecological Management-Kent	DCO Schedule 3, Requirement 6 Landscape and Ecological Management Plan (LEMP) – Suffolk DCO Schedule 3, Requirement 6 Landscape and Ecological Management Plan (LEMP) – Kent
B14	Application Document 6.2.2.2 Part 2 Suffolk Chapter 2 Ecology and Biodiversity and Application Document 6.2.3.2 Part 3 Kent Chapter 2 Ecology and Biodiversity	Impacts on dormice	A precautionary method would be followed when undertaking vegetation clearance potentially suitable for dormice which would be undertaken in two stages under supervision of a suitably qualified ecologist.	Embedded	Construction	Application Document 7.5.3 Outline Onshore Construction Environmental Management Plan	DCO Schedule 3, Requirement 6 Onshore Construction Environmental Management Plan
B59	Application Document 7.5.3 Outline Onshore Construction Environmental Management Plan	Impacts of potential frac-out	In relation to trenchless landfall works at both Suffolk and Kent, the contractor(s) will prepare the following suite of plans: <u>Kent Landfall:</u> • Landfall Method Statement (Trenchless Techniques) and Drilling Fluid Management Plan, in consultation with NE, Kent Wildlife Trust (KWT), Royal Society for the Protection of Birds (RSPB), National Trust, and Thanet District Council, and submit the same for approval by the Marine Management Organisation (MMO) in accordance with the Cable Specification and Installation Plan prior to the commencement of any trenchless activities.	Control and management measure	Construction	Application Document 7.5.3 Outline Onshore Construction Environmental Management Plan Application Document 7.5.3 Outline Offshore Construction Environmental Management Plan. Application Document 9.92 Outline Cable Specification and Installation Plan	DCO Schedule 3, Requirement 6 Onshore Construction Environmental Management Plan. DCO Schedule 3, Requirement 6 Cable Specification and Installation Plan.

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			• The Landfall Method Statement (Trenchless Techniques) and Pegwell Bay Landfall Construction Method Statement must ensure that works below Mean High Water Springs in Pegwell Bay are programmed to avoid the wintering period (November to February). • Undertake landfall hydrofracture modelling which is to be shared for information only with NE, KWT, National Trust and RSPB when completed. <u>Suffolk Landfall</u> • Landfall Method Statement (Trenchless Techniques) and Drilling Fluid Management Plan, in consultation with NE, Royal Society for the Protection of Birds (RSPB) and East Suffolk Council (ESC) and submit the same for approval by the Marine Management Organisation (MMO) in accordance with the Cable Specification and Installation Plan prior to the commencement of any trenchless activities. • Undertake landfall hydrofracture modelling which is to be shared for information only with NE, RSPB and ESC when completed.At each landfall location (Suffolk and Kent) Natural England, ESC, RSPB, and KWT (respectively) will be notified of changes to landfall depth or changes				

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			to the location of the landfall exit pits.				
B72	Application Document 7.5.3 Outline Onshore Construction Environmental Management Plan	Impacts on hedgehogs	Prior to mechanical woody vegetation clearance to ground level, habitats including hedgerow bases will be inspected by a suitable qualified ecologist. Any hedgehog hibernacula identified within the vegetation clearance footprint prior to the hibernation season (November to March) would be dismantled to ensure hibernating hedgehogs are not encountered in the path of vegetation clearance. Any occupied hedgehog hibernacula that are found in the works footprint during hibernation period would not be disturbed.	Control and management measure	Construction	Application Document 7.5.3 Outline Onshore Construction Environmental Management Plan	DCO Schedule 3, Requirement 6 Onshore Construction Environmental Management Plan
B75	Application Document 7.5.3 Outline Onshore Construction Environmental Management Plan	Impact on ecology	The key ecology survey updates as set out in the Kent oLEMP (specifically for Schedule 1 birds, roosting bats, dormice, and riparian mammals) must be undertaken prior to vegetation clearance in those areas.	Additional	Construction	Application Document 7.5.3 Outline Onshore Construction Environmental Management Plan	DCO Schedule 3, Requirement 6 Onshore Construction Environmental Management Plan
B76	Application Document 7.5.3 Outline Onshore Construction Environmental Management Plan	Impact on ecology	To mitigate any risk to Schedule 5 invertebrates, including disturbance during use of places of shelter or protection, the Applicant commits to avoiding any incidental or direct lighting vegetated areas by locating any temporary task lighting, where required, as close as practicable to the seawards edge of the hoverport and/or as close as	Additional	Construction	Application Document 7.5.3 Outline Onshore Construction Environmental Management Plan	DCO Schedule 3, Requirement 6 Onshore Construction Environmental Management Plan

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			practicable to Sandwich Road.				
B80	Application Document 7.5.3 Outline Onshore Construction Environmental Management Plan	Impact on ecology	The undertaker will ensure that vegetation removal is only carried out as far as necessary, based on the latest design, and not simply in accordance with potentially obsolete plans.	Control and management measure	Construction	Application Document 7.5.3 Outline Onshore Construction Environmental Management Plan	DCO Schedule 3, Requirement 6 Onshore Construction Environmental Management Plan
Cultural Heritage							
H01	Application Document 6.2.2.3 Part 2 Suffolk Chapter 3 Cultural Heritage and Application Document 6.2.3.3 Part 3 Kent Chapter 3 Cultural Heritage	Effects on cultural heritage assets	Construction of the Proposed Project would employ the use of track matting for construction plant, where practicable, as opposed to topsoil stripping for the creation of haul roads. This measure would avoid permanent impacts to buried archaeological remains that may be present.	Control and management measure	Construction	Application Document 7.5.3 Outline Onshore Construction Environmental Management Plan	DCO Schedule 3, Requirement 6 Onshore Construction Environmental Management Plan
H02	Application Document 6.2.2.3 Part 2 Suffolk Chapter 3 Cultural Heritage and Application Document 6.2.3.3 Part 3 Kent Chapter 3 Cultural Heritage	Effects on cultural heritage assets	To minimise change to the setting of heritage assets, land used temporarily will be reinstated to its pre-construction condition and use where practicable, unless agreed otherwise. Hedgerows, fences and walls (including associated earthworks and boundary features) will be reinstated to a similar style and quality to those that were removed where possible, with landowner consultation, through Onshore CEMP measure GG07. This is subject to the DCO provisions on reinstatement.	Control and management measure	Construction	Application Document 7.5.3 Outline Onshore Construction Environmental Management Plan	DCO Schedule 3, Requirement 6 Onshore Construction Environmental Management Plan
H03	Application Document 6.2.2.3 Part 2 Suffolk Chapter 3 Cultural Heritage and Application	Effects on cultural heritage assets	To minimise light intrusion into the setting of heritage assets, construction lighting will be of the lowest	Control and management measure	Construction	Application Document 7.5.3 Outline Onshore Construction Environmental Management Plan	DCO Schedule 3, Requirement 6 Onshore Construction Environmental Management Plan

(1) ID	(2) ES or Standalone Document Reference	(3) Potential Changes and Effects	(4) Mitigation commitment	(5) Mitigation	(6) Project Phase	(7) Securing Document/Plan	(8) Securing Mechanism
	Document 6.2.3.3 Part 3 Kent Chapter 3 Cultural Heritage		levels necessary to safely perform each task. It will be designed, positioned and directed to reduce light spill and intrusion, through Onshore CEMP measure GG21.				
H04	Application Document 6.2.2.3 Part 2 Suffolk Chapter 3 Cultural Heritage and Application Document 6.2.3.3 Part 3 Kent Chapter 3 Cultural Heritage	Effects on cultural heritage assets	Sensitive routeing and siting of infrastructure and temporary works as set out in Section 3.8 of Application Document 6.2.2.3 Part 2 Suffolk Chapter 3 Cultural Heritage and Application Document 6.2.3.3 Part 3 Kent Chapter 3 Cultural Heritage.	Embedded	Construction and Operation	Environmental Statement	Embedded measure that does not require securing mechanism
H17	Application Document 7.5.4.1 Outline Onshore Overarching Written Scheme of Investigation – Suffolk (Draft) Application Document 7.5.4.2 Outline Onshore Overarching Written Scheme of Investigation – Kent (Draft) Application Document 7.5.5 Outline Offshore Overarching Written Scheme of Investigation	Effects on cultural heritage assets	Timescales for the delivery, content and submission of OASIS records will be confirmed in consultation with Historic England and the Archaeological Curator(s) as part of the finalisation of the WSI.	Control and management measure	Construction	Application Document 7.5.4.1 Outline Onshore Overarching Written Scheme of Investigation – Suffolk (Draft) Application Document 7.5.4.2 Outline Onshore Overarching Written Scheme of Investigation – Kent (Draft) Application Document 7.5.5 Outline Offshore Overarching Written Scheme of Investigation	DCO Schedule 3, Requirement 14 Onshore Overarching Written Scheme of Investigation - Suffolk DCO Schedule 3, Requirement 14 Onshore Overarching Written Scheme of Investigation – Kent DCO Schedule 3, Requirement 14 Outline Offshore Overarching Written Scheme of Investigation
Water Environment							
W01	Application Document 6.2.2.4 Part 2 Suffolk Chapter 4 Water Environment and Application Document 6.2.3.4 Part 3 Kent Chapter 4 Water Environment	Risk of not complying with environmental legislation	The Applicant will undertake pre-construction surveys to identify all watercourses within construction work sites. All works within main rivers and qualifying activities within floodplains such as installation of access tracks, within ordinary watercourses and board	Control and management measure	Construction	Application Document 7.5.3 Outline Onshore Construction Environmental Management Plan	DCO Schedule 3, Requirement 6 Onshore Construction Environmental Management Plan

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			drains, will be in accordance with a method approved under environmental permits issued under the Environmental Permitting Regulations by the Environment Agency and /or the relevant secondary consents or permits from the Lead Local Flood Authorities and Internal Drainage Boards.				
W02	Application Document 6.2.2.4 Part 2 Suffolk Chapter 4 Water Environment and Application Document 6.2.3.4 Part 3 Kent Chapter 4 Water Environment	Impacts to watercourses during construction works	For open cut watercourse crossings and installation of vehicle crossing points, good practice measures will include but not be limited to: • where practicable, reducing the working width for open cut crossings of an ordinary watercourse whilst still providing safe working; • no open cut crossing of main rivers; • installation of a pollution boom downstream of open cut works; • the use and maintenance of temporary lagoons, tanks, bunds, silt fences or silt screens as required; • have spill kits and straw bales readily available at all crossing points for downstream emergency use in the event of a pollution incident; • the use of all static plant such as pumps in	Control and management measure	Construction	Application Document 7.5.3 Outline Onshore Construction Environmental Management Plan	DCO Schedule 3, Requirement 6 Onshore Construction Environmental Management Plan

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			appropriately sized spill trays; • prevent refuelling of any plant or vehicle within 10 m of a watercourse and within 50 m of any spring/borehole/well; • prevent storing of soil stockpiles within 15 m of a main river (16 m where river is tidal) and Flood Zone 3b where practicable; • inspect all plant prior to work adjacent to watercourses for leaks of fuel or hydraulic fluids; • reinstating the riparian vegetation and natural bed of the watercourse, using the material removed when appropriate, on completion of the works and compacting as necessary. If additional material is required, appropriately sized material of similar composition will be used; • Prevent siting of construction compounds, laydown areas for heavy machinery (excluding short term laydown for the River Stour and River Fromus bridge construction works), and materials that could move in a flood within 15 m of a main river (16 m where river is tidal).				

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W03	Application Document 6.2.2.4 Part 2 Suffolk Chapter 4 Water Environment and Application Document 6.2.3.4 Part 3 Kent Chapter 4 Water Environment	Impacts to watercourses during construction works	Riverbank and in-channel vegetation will be retained where not directly affected by installation works. Where ditches retaining seasonal flows are crossed, culverts in waterbodies will either preserve the natural bed or be box culverts with inverts sunk a minimum of 300 mm below the hard bed of the watercourse and natural / existing bed material placed across the inside of the culvert, to maintain existing channel gradients and habitat for aquatic invertebrates, as well as to ensure continued passage for in channel species.	Control and management measure	Construction	Application Document 7.5.3 Outline Onshore Construction Environmental Management Plan	DCO Schedule 3, Requirement 6 Onshore Construction Environmental Management Plan
W04	Application Document 6.2.2.4 Part 2 Suffolk Chapter 4 Water Environment and Application Document 6.2.3.4 Part 3 Kent Chapter 4 Water Environment	Impacts to watercourses during construction works	Where watercourses are to be crossed by construction traffic, measures will include the use of culverts or temporary spanned bridges. Once the culvert is installed, the area above the culvert will be backfilled and construction mats placed over the backfilled area to permit the passage of plant, equipment, materials and people. Culverts will be sized to reflect the span width and the estimated flow characteristics of the watercourse under peak flow conditions and kept free from debris. The installation works would be timed to avoid flood flow conditions where practicable or if periods of work were necessary when higher flow conditions could be expected, suitable	Control and management measure	Construction	Application Document 7.5.3 Outline Onshore Construction Environmental Management Plan	DCO Schedule 3, Requirement 6 Onshore Construction Environmental Management Plan

(1) ID	(2) ES or Standalone Document Reference	(3) Potential Changes and Effects	(4) Mitigation commitment	(5) Mitigation	(6) Project Phase	(7) Securing Document/Plan	(8) Securing Mechanism
			pumping provision would be put in place, with standby pumps also made available. Where used, temporary bridges will be designed specifically to consider the span length and the weight and size of plant and equipment that will cross the bridge. The bridge across the River Stour would have a soffit height sufficient to meet with navigational requirements and in excess of the 0.5% flood level plus 600 m freeboard.				
W05	Application Document 6.2.2.4 Part 2 Suffolk Chapter 4 Water Environment and Application Document 6.2.3.4 Part 3 Kent Chapter 4 Water Environment	Impacts to the water environment due to de-watering and discharge activities	The contractor(s) will comply with all relevant consent conditions or DCO provisions regarding de-watering and other discharge activities. This will particularly be with regard to volumes and discharge rates and will include discharges to land, water bodies or third-party drains/sewers.	Control and management measure	Construction	Application Document 7.5.3 Outline Onshore Construction Environmental Management Plan	DCO Schedule 3, Requirement 6 Onshore Construction Environmental Management Plan
W06	Application Document 6.2.2.4 Part 2 Suffolk Chapter 4 Water Environment and Application Document 6.2.3.4 Part 3 Kent Chapter 4 Water Environment	Changes to flood risk due to temporary working areas and access routes	Where new or additional impermeable surfacing is required on any access tracks, bellmouths and in compound areas e.g. for parking provision, site offices, Sustainable Drainage Systems (SuDS) will be incorporated, appropriate to the existing ground conditions, with infiltration to ground preferred where conditions are suitable. These would be put in place as early activities in the construction	Control and management measure	Construction	Application Document 7.5.3 Outline Onshore Construction Environmental Management Plan	DCO Schedule 3, Requirement 6 Onshore Construction Environmental Management Plan

(1) ID	(2) ES or Standalone Document Reference	(3) Potential Changes and Effects	(4) Mitigation commitment	(5) Mitigation	(6) Project Phase	(7) Securing Document/Plan	(8) Securing Mechanism
			schedule so as to avoid or reduce working on land that is prone to waterlogging and flooding. The Proposed Project will incorporate appropriate surface water drainage measures into its final design for the haul roads and access tracks so that they do not lead to a significant increase in flood risk. Temporary haul routes and all other temporary works within Flood Zone 3 and areas of high and medium risk of flooding from surface water will be removed at the end of the construction phase and the ground surface will be reinstated to pre-project levels, except in instances where the ground level has been adjusted as part of the Proposed Project subject to the provisions of the draft DCO in Article 27. During construction of the Suffolk Onshore Scheme, construction materials would be stored within Flood Zone 1 and areas at low risk of flooding from surface water. For the Kent Onshore Scheme, given the expansive nature of the River Stour floodplain, this commitment cannot practicably be achieved. It is therefore proposed that storage of materials within Flood Zone 3 will be minimised with materials such as pylon steelwork stored for up to 30 days and adequate mitigation measures will be applied. For example, model				

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			outputs would inform the placement of soil during construction and soil stockpiles would be aligned in the direction of flow to avoid impeding flood flow routes. In addition, the contractor would monitor weather forecasts and flood alerts/warnings including information on tidal conditions, enacting protocols to remove temporary stores out of Flood Zone 3B, to the closest suitable location in Flood Zone 3a, on receipt of warning. Where construction access routes for both the Kent and Suffolk Onshore Schemes cross Flood Zone 3 and areas at high risk of surface water flooding no land raising would be required, except for the approaches to the temporary bridge crossing of the River Stour.				
W07	Application Document 6.2.2.4 Part 2 Suffolk Chapter 4 Water Environment and Application Document 6.2.3.4 Part 3 Kent Chapter 4 Water Environment	Unsafe working due to flooding incidents	The contractor(s) will subscribe to the Environment Agency's Floodline service, which provides advance warning of potential local flooding events, and subscribe to the Met Office's Weather Warnings email alerts system and any other relevant flood warning information. The contractor(s) will prepare and implement a suitable Flood Emergency Plan as part of the Onshore Construction Environmental Management Plan, which will set out procedures that	Control and management measure	Construction	Application Document 7.5.3 Outline Onshore Construction Environmental Management Plan	DCO Schedule 3, Requirement 6 Onshore Construction Environmental Management Plan

(1) ID	(2) ES or Standalone Document Reference	(3) Potential Changes and Effects	(4) Mitigation commitment	(5) Mitigation	(6) Project Phase	(7) Securing Document/Plan	(8) Securing Mechanism
			will be followed to manage flood risk to site personnel, materials and equipment and include appropriate evacuation procedures, identifying safe access and egress arrangements for site personnel should a flood occur or be forecast.				
W08	Application Document 6.2.2.4 Part 2 Suffolk Chapter 4 Water Environment and Application Document 6.2.3.4 Part 3 Kent Chapter 4 Water Environment	Impacts on private water supplies during construction works	Active private water supplies will be identified with landowners through the landowner discussions. Appropriate measures will be considered during construction. In the event of a landowner or tenant reporting that installation activities have affected their private water supplies, an initial response will be provided within 24 hours. Where the installation works have affected a private water supply, an alternative water supply will be provided, as appropriate, and any groundwater contamination will be remediated.	Control and management measure	Construction	Application Document 7.5.3 Outline Onshore Construction Environmental Management Plan	DCO Schedule 3, Requirement 6 Onshore Construction Environmental Management Plan
W09	Application Document 6.2.2.4 Part 2 Suffolk Chapter 4 Water Environment and Application Document 6.2.3.4 Part 3 Kent Chapter 4 Water Environment	Impacts on private water supplies due to a pollution event	In the event of a significant spill during construction or maintenance, the incident will be reported to the Environment Agency incident hotline and all landowners/tenants with a private water supply within 250 m of the spill will be contacted within 24 hours. An assessment of the likelihood of groundwater contamination reaching identified private water supplies will be undertaken, and where a private water supply is judged likely to be affected,	Control and management measure	Construction / Operation (Maintenance)	Application Document 7.5.3 Outline Onshore Construction Environmental Management Plan	DCO Schedule 3, Requirement 6 Onshore Construction Environmental Management Plan

(1) ID	(2) ES or Standalone Document Reference	(3) Potential Changes and Effects	(4) Mitigation commitment	(5) Mitigation	(6) Project Phase	(7) Securing Document/Plan	(8) Securing Mechanism
			an alternative water supply will be provided, as appropriate and in agreement with the affected landowner/tenant, and any proven groundwater contamination will be remediated.				
W10	Application Document 6.2.2.4 Part 2 Suffolk Chapter 4 Water Environment and Application Document 6.2.3.4 Part 3 Kent Chapter 4 Water Environment	Severance of existing land drainage routes	Severance of existing land drainage routes, including agricultural field drainage systems would be managed during construction through provision of temporary alternative drainage routes. These drainage systems would be permanently reinstated, providing opportunities to improve poor drainage, or rerouted ensuring their existing function is maintained or improved within the Order Limits.	Control and management measure	Construction	Application Document 7.5.3 Outline Onshore Construction Environmental Management Plan	DCO Schedule 3, Requirement 6 Onshore Construction Environmental Management Plan
W11	Application Document 6.2.2.4 Part 2 Suffolk Chapter 4 Water Environment and Application Document 6.2.3.4 Part 3 Kent Chapter 4 Water Environment	Changes to flood risk and water quality due to the increase in impermeable surfaces	Surface water drainage from permanent above ground infrastructure would be managed and treated using SuDS in accordance with policy and guidance requirements of the relevant Lead Local Flood Authorities to include allowances for climate change in accordance with current (May 2022) Environment Agency guidelines. These SuDS would be maintained over the lifetime of the Proposed Project and the drainage infrastructure would provide the storage necessary to achieve discharges at greenfield rates and would not significantly alter	Control and management measure	Construction	Application Document 7.5.3 Outline Onshore Construction Environmental Management Plan	DCO Schedule 3, Requirement 6 Onshore Construction Environmental Management Plan

(1) ID	(2) ES or Standalone Document Reference	(3) Potential Changes and Effects	(4) Mitigation commitment	(5) Mitigation	(6) Project Phase	(7) Securing Document/Plan	(8) Securing Mechanism
			groundwater recharge patterns by transferring recharge quantities from one catchment to another.				
W12	Application Document 6.2.2.4 Part 2 Suffolk Chapter 4 Water Environment and Application Document 6.2.3.4 Part 3 Kent Chapter 4 Water Environment	Physical disturbance to watercourses and areas of coastal floodplain	At the Suffolk and Kent landfalls the offshore cables will be brought onshore using a trenchless technique, avoiding physical disturbance of several watercourses and areas of coastal floodplain. Monitoring of existing flood defences would be undertaken during the cable installation in agreement with Environment Agency protocols to ensure no detriment to the integrity of the defences.	Control and management measure	Construction	Application Document 7.5.3 Outline Onshore Construction Environmental Management Plan	DCO Schedule 3, Requirement 6 Onshore Construction Environmental Management Plan
W13	Application Document 6.2.2.4 Part 2 Suffolk Chapter 4 Water Environment and Application Document 6.2.3.4 Part 3 Kent Chapter 4 Water Environment	Bankside vegetation loss	Bankside vegetation would be reinstated at culvert entries and exits following the completion of construction works as soon as conditions are suitable for planting and where identified as necessary, provision for mammal passage would also be included.	Control and management measure	Construction	Application Document 7.5.3 Outline Onshore Construction Environmental Management Plan	DCO Schedule 3, Requirement 6 Onshore Construction Environmental Management Plan
W14	Application Document 6.2.2.4 Part 2 Suffolk Chapter 4 Water Environment and Application Document 6.2.3.4 Part 3 Kent Chapter 4 Water Environment	Risk of surface water flooding	The Contractor shall develop a Drainage Management Plan in accordance with the National Standards for Sustainable Drainage Systems and this must be submitted to the Local Planning Authority for approval prior to construction works for the Proposed Project commencing and thereafter the approved plan shall be complied with, subject to any amendments that are	Control and management measure	Construction and Operation	Application Document 7.5.3 Outline Onshore Construction Environmental Management Plan	DCO Schedule 3, Requirement 6 Drainage Management Plan

(1) ID	(2) ES or Standalone Document Reference	(3) Potential Changes and Effects	(4) Mitigation commitment	(5) Mitigation	(6) Project Phase	(7) Securing Document/Plan	(8) Securing Mechanism
			subsequently approved pursuant to Requirement 6 of Schedule 3 of the draft DCO. The plan shall demonstrate how the Contractor would manage surface water runoff across the worksite, including details of how offsite impacts would be managed and mitigated. Should the mitigation include discharge to Anglian Water assets, Anglian Water will be consulted on the drainage management plan.				
W15	Application Document 6.2.2.4 Part 2 Suffolk Chapter 4 Water Environment and Application Document 6.2.3.4 Part 3 Kent Chapter 4 Water Environment	Flood risk	The Contractor shall prepare a construction phase Flood Management Plan that shall consider all construction phase activities and temporary works necessary to deliver the Proposed Project and this must be submitted to the Local Planning Authority for approval prior to construction works for the Proposed Project commencing and thereafter the approved plan shall be complied with, subject to any amendments that are subsequently approved pursuant to Requirement 6 of Schedule 3 of the draft DCO.	Control and management measure	Construction	Application Document 7.5.3 Outline Onshore Construction Environmental Management Plan	DCO Schedule 3, Requirement 6 Flood Management Plan (FMP)
W16	Application Document 6.9 Water Framework Directive Assessment	Consumptive use of water resources	Water use efficiency and leakage reduction measures would be adopted during the construction phase, such as use of water-efficient fittings (taps, toilets) in site offices and welfare facilities, use of misting/atomising systems	Control and management measure	Construction	Application Document 7.5.3 Outline Onshore Construction Environmental Management Plan	DCO Schedule 3, Requirement 6 Onshore Construction Environmental Management Plan

(1) ID	(2) ES or Standalone Document Reference	(3) Potential Changes and Effects	(4) Mitigation commitment	(5) Mitigation	(6) Project Phase	(7) Securing Document/Plan	(8) Securing Mechanism
			for dust suppression, drive-on recirculating systems for wheel washing, and sub-metering to help in detecting leaks where reasonably practicable.				
W31	Application Document 7.5.3 Outline Onshore Construction Environmental Management Plan	Impact on flood risk	Drainage ponds serving temporary works during construction of the Proposed Project would be removed following construction, and the land reinstated.	Control and management measure	Construction	Application Document 7.5.3 Outline Onshore Construction Environmental Management Plan	DCO Schedule 3, Requirement 6 Onshore Construction Environmental Management Plan
W32	Application Document 7.5.3 Outline Onshore Construction Environmental Management Plan	Impact on water quality	The Applicant will seek to use precast concrete instead of in-situ concrete where practicable, particularly where works are in the vicinity of watercourses such as for culverts and headwalls. Areas where concrete works are proposed will be identified and each will be specified as either requiring concrete to be cast in-situ, or alternatively precast and delivered. Where in-situ concrete pours are required, there will be detailed provision for timing, weather conditions, and runoff control. These construction works will be minimised during heavy precipitation events, and carried out during dry months where practicable. Details of containment measures for concrete washout (such as lined washout pits, bunded areas) will also be specified.	Control and management measure	Construction	Application Document 7.5.3 Outline Onshore Construction Environmental Management Plan	DCO Schedule 3, Requirement 6 Onshore Construction Environmental Management Plan
Geology and Hydrogeology							

(1) ID	(2) ES or Standalone Document Reference	(3) Potential Changes and Effects	(4) Mitigation commitment	(5) Mitigation	(6) Project Phase	(7) Securing Document/Plan	(8) Securing Mechanism
GH01	Application Document 6.2.2.5 Part 2 Suffolk Chapter 5 Geology & Hydrogeology and Application Document 6.2.3.5 Part 3 Kent Chapter 5 Geology & Hydrogeology	Impacts from geotechnical hazards	Intrusive ground investigations and assessment will be undertaken prior to construction which will inform appropriate geotechnical design in relation to the site/structure specific ground conditions including ground instability/adverse ground conditions.	Control and management measures	Construction	Application Document 7.5.3 Outline Onshore Construction Environmental Management Plan	DCO Schedule 3, Requirement 6 Onshore Construction Environmental Management Plan
GH02	Application Document 6.2.2.5 Part 2 Suffolk Chapter 5 Geology & Hydrogeology and Application Document 6.2.3.5 Part 3 Kent Chapter 5 Geology & Hydrogeology	Mixing of aquifer bodies through the creation of new pathways	A Foundation Works Risk Assessment (FWRA) will be undertaken by the contractor where the use of piled foundations are anticipated and at trenchless crossings. The contractor will utilise construction methods such as appropriate piling techniques to minimise and avoid the risk of introducing new contamination (if required), creating new contamination pathways, and mixing of aquifer bodies. The FWRA would be undertaken once the proposed foundation solutions are known in consultation with the Environment Agency and in accordance with Environment Agency guidance 'Piling and Penetrative Ground Improvement Methods on Land Affected by Contamination'. The FWRA would also seek to minimise impacts on buried archaeological remains as a result of contamination.	Control and management measures	Construction	Application Document 7.5.3 Outline Onshore Construction Environmental Management Plan	DCO Schedule 3, Requirement 6 Onshore Construction Environmental Management Plan
GH03	Application Document 6.2.2.5 Part 2 Suffolk Chapter 5 Geology & Hydrogeology and	Impacts on receptors due to	Use of appropriate occupational health and safety measures e.g.	Control and management measures	Construction	Application Document 7.5.3 Outline Onshore Construction Environmental Management Plan	DCO Schedule 3, Requirement 6 Onshore Construction

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	Application Document 6.2.3.5 Part 3 Kent Chapter 5 Geology & Hydrogeology	contaminated land	Personal Protective Equipment (PPE), and statutory health and safety compliance (e.g. compliance with the Confined Spaces Regulations, 1997 in relation to ground gas from working in confined spaces/trenches) to minimise the risks associated with anticipated/unexpected contamination. Based on risk assessment informed by site specific information.				Environmental Management Plan
GH04	Application Document 6.2.2.5 Part 2 Suffolk Chapter 5 Geology & Hydrogeology and Application Document 6.2.3.5 Part 3 Kent Chapter 5 Geology & Hydrogeology	Impacts on receptors due to the release of hazardous substances into the environment	Appropriate training of construction and maintenance workers in the handling and use of potentially hazardous substances and the associated risks.	Control and management measures	Construction	Application Document 7.5.3 Outline Onshore Construction Environmental Management Plan	DCO Schedule 3, Requirement 6 Onshore Construction Environmental Management Plan
GH05	Application Document 6.2.2.5 Part 2 Suffolk Chapter 5 Geology & Hydrogeology and Application Document 6.2.3.5 Part 3 Kent Chapter 5 Geology & Hydrogeology	Contamination of the water environment from fuels, oils or chemicals during construction and maintenance	All materials that could be hazardous to water quality will be stored in suitable areas, more than 10 m away from a watercourse and wetland habitats, away from site traffic and in containers which are fit for purpose, meeting the requirements of the Control of Pollution (Oil Storage) Regulations. The use and storage of chemicals and fuels will also be controlled and monitored under the Onshore CEMP which will include, for example, protection from vandalism, procedures for good general construction site practices, environmental and waste management procedures, regular vehicle checks, use of spill kits, correct waste storage and	Control and management measures	Construction / Operation (Maintenance)	Application Document 7.5.3 Outline Onshore Construction Environmental Management Plan	DCO Schedule 3, Requirement 6 Onshore Construction Environmental Management Plan

(1) ID	(2) ES or Standalone Document Reference	(3) Potential Changes and Effects	(4) Mitigation commitment	(5) Mitigation	(6) Project Phase	(7) Securing Document/Plan	(8) Securing Mechanism
			disposal, use of oil-water separators as necessary (for example, for drainage from refuelling areas). Any washing of vehicles or equipment will only take place in controlled areas, and wash waters will not be discharged into the water environment. The wash water will be treated and discharged to an approved location and in accordance with any relevant permitting requirements.				
GH06	Application Document 6.2.2.5 Part 2 Suffolk Chapter 5 Geology & Hydrogeology and Application Document 6.2.3.5 Part 3 Kent Chapter 5 Geology & Hydrogeology	Impacts from earthworks or materials movements	The control of earthworks or materials movement (including any re-use of materials) under appropriate Environmental Permits, exemptions or Contaminated Land: Applications in the Real Environment (CL:AIRE) 'The definition of Waste: The development industry Code of Practice (2011).	Control and management measures	Construction	Application Document 7.5.3 Outline Onshore Construction Environmental Management Plan	DCO Schedule 3, Requirement 6 Onshore Construction Environmental Management Plan
GH07	Application Document 6.2.2.5 Part 2 Suffolk Chapter 5 Geology & Hydrogeology and Application Document 6.2.3.5 Part 3 Kent Chapter 5 Geology & Hydrogeology	Impacts on the water environment due to temporary dewatering	Any temporary dewatering activities during construction will be undertaken in accordance with EA guidance, and if required, an Abstraction Licence and Environmental Permit (for the discharge) and will be limited to the depth and time required to facilitate construction activities. If discharge at the site is required, a water discharge activity permit will be sought.	Control and management measures	Construction	Application Document 7.5.3 Outline Onshore Construction Environmental Management Plan	DCO Schedule 3, Requirement 6 Onshore Construction Environmental Management Plan
GH08	Application Document 6.2.2.5 Part 2 Suffolk Chapter 5 Geology & Hydrogeology and Application Document 6.2.3.5 Part 3 Kent Chapter 5 Geology & Hydrogeology	Impacts on receptors due to unexpected contamination	A protocol for dealing with any unexpected contamination will be developed by the Main Works Contractor(s) and will include:	Control and management measures	Construction	Application Document 7.5.3 Outline Onshore Construction Environmental Management Plan	DCO Schedule 3, Requirement 6 Onshore Construction Environmental Management Plan

(1) ID	(2) ES or Standalone Document Reference	(3) Potential Changes and Effects	(4) Mitigation commitment	(5) Mitigation	(6) Project Phase	(7) Securing Document/Plan	(8) Securing Mechanism
			1. Details of a watching brief and toolbox talks to be implemented throughout the construction phase; 2. In the event that contamination (of land or groundwater) is found at any time when carrying out the authorised development, which was not identified in the environmental statement, then no further development shall be carried out within the identifiable perimeters of the area in which the suspected contamination is located. It must be reported as soon as reasonably practicable to the Local Planning Authority, and where necessary, the Environment Agency, and the Main Works Contractor must complete a risk assessment of the contamination in consultation with the Local Planning Authority, and where necessary, the Environment Agency. 3. The qualifications and competencies of the person appointed to complete the risk assessment. 4. Where the assessment determines that remediation is necessary, a written scheme and programme for the remedial measures to be undertaken to render the land fit for its intended purpose must be submitted to and approved in writing by the Local Planning Authority, following				

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			consultation with the Environment Agency. 5. The qualifications and competencies of the person appointed to oversee the works. 6. Remediation must be carried out in accordance with the approved scheme under sub paragraph (4). 7. Following the implementation of the remediation strategy approved under sub-paragraph (4), a verification report, based on the data collected as part of the remediation strategy and demonstrating the completion of the remediation measures must be completed and submitted to the relevant Local Planning Authority and the Environment Agency. This will also include consideration of potential impacts (both direct and indirect) from contamination on nearby buried archaeological remains.				
GH09	Application Document 6.2.2.5 Part 2 Suffolk Chapter 5 Geology & Hydrogeology and Application Document 6.2.3.5 Part 3 Kent Chapter 5 Geology & Hydrogeology	Impacts on the water environment due to temporary dewatering	Where indicated in the ES, a Hydrogeological Risk Assessment will be undertaken during detailed design to assess the specific risks to groundwater and groundwater receptors at those locations and identify any additional mitigation or remediation that may be required. The Hydrogeological Risk Assessment should include considerations of	Control and management measures	Construction	Application Document 7.5.3 Outline Onshore Construction Environmental Management Plan	DCO Schedule 3, Requirement 6 Onshore Construction Environmental Management Plan

(1) ID	(2) ES or Standalone Document Reference	(3) Potential Changes and Effects	(4) Mitigation commitment	(5) Mitigation	(6) Project Phase	(7) Securing Document/Plan	(8) Securing Mechanism
			dewatering (where this is required) on archaeological remains. The nature and scope of any mitigation or remediation will be agreed with the Environment Agency or other stakeholders prior to construction, as appropriate. Any dewatering scheme for the Suffolk trenchless landfall site will include measures that ensure groundwater flows to the wetlands in the RSPB are not impaired by the dewatering scheme. Any dewatering scheme for the Suffolk trenchless landfall site will be agreed with the Environment Agency, the RSPB and other stakeholders (as appropriate).				
GH10	Application Document 6.2.2.5 Part 2 Suffolk Chapter 5 Geology & Hydrogeology and Application Document 6.2.3.5 Part 3 Kent Chapter 5 Geology & Hydrogeology	Impacts on the water environment due to the breakout of drilling fluids	The provision of a drilling fluid management plan, that includes drilling fluid breakout mitigation measures, where horizontal directional drilling is proposed. This plan will include consideration of potential impacts on nearby archaeological remains (both direct and indirect) as a result of drilling fluid breakout. The plan will be developed by the contractor and included within the Offshore and Onshore CEMPs. All relevant permits will be obtained or exemption/exclusions registered by the Main Works Contractor(s) for the use of drilling fluids / additives, as applicable.	Control and management measures	Construction	Application Document 7.5.3 Outline Onshore Construction Environmental Management Plan	DCO Schedule 3, Requirement 6 Onshore Construction Environmental Management Plan

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Agriculture and soils							
AS01	Application Document 6.2.2.6 Part 2 Suffolk Chapter 6 Agriculture & Soils and Application Document 6.2.3.6 Part 3 Kent Chapter 6 Agriculture & Soils	Impacts on soils due to poor management	The Outline Soil Management Plans set out specific guidance in relation to soil handling, including, soil stripping, soil stockpiling and soil reinstatement. These will be updated to Soil Management Plans prior to construction, to include information from soil and agricultural land classification (ALC) surveys. Measures will include but not be limited to the following: • pre-construction surveys in accordance with published guidance to confirm ALC grade and soil type; • how topsoil and subsoil will be stripped and stockpiled; • suitable conditions for when handling soil will be undertaken, for example avoiding handling of waterlogged soil; • indicative soil storage locations; • how soil stockpiles will be designed taking into consideration site conditions and the nature/composition of the soil; • specific measures for managing sensitive soils; • suitable protective surfacing where soil stripping can be	Control and management measures	Construction	Application Document 7.5.10.1 Outline Soil Management Plan – Suffolk Application Document 7.5.10.2 Outline Soil Management Plan - Kent	DCO Schedule 3, Requirement 6 Soil Management Plan – Suffolk DCO Schedule 3, Requirement 6 Soil Management Plan – Kent

(1) ID	(2) ES or Standalone Document Reference	(3) Potential Changes and Effects	(4) Mitigation commitment	(5) Mitigation	(6) Project Phase	(7) Securing Document/Plan	(8) Securing Mechanism
			avoided, and weed suppression encouraged, based on sensitivity of the environment and proposed works; • approach to reinstating soil that has been compacted, where required; and • details of measures required for soil restoration, including target specification for the proposed end uses.				
AS02	Application Document 6.2.2.6 Part 2 Suffolk Chapter 6 Agriculture & Soils and Application Document 6.2.3.6 Part 3 Kent Chapter 6 Agriculture & Soils	Impact on soil conditions following construction	Where land is being returned to agricultural use, the appropriate soil conditions (for example through the replacement of stripped layers and the removal of any compaction) will be recreated. This will be achieved to a depth of 1.2 m (or the maximum natural soil depth if this is shallower) except over buried cables where the reinstated soil depth will be a minimum of 0.9 m. This will aim to restore land to the pre-construction ALC grade (unless otherwise agreed with the landowner).	Control and management measures	Construction	Application Document 7.5.10.1 Outline Soil Management Plan – Suffolk Application Document 7.5.10.2 Outline Soil Management Plan – Kent	DCO Schedule 3, Requirement 6 Soil Management Plan – Suffolk DCO Schedule 3, Requirement 6 Soil Management Plan – Kent
AS03	Application Document 6.2.2.6 Part 2 Suffolk Chapter 6 Agriculture & Soils and Application Document 6.2.3.6 Part 3 Kent Chapter 6 Agriculture & Soils	Disruption to access during construction works	Access to and from residential, commercial, community and agricultural land uses will be maintained throughout the construction period or as agreed through the landowner discussions. This may require signed diversions or temporary restrictions to access. The	Control and management measures	Construction	Application Document 7.5.10.1 Outline Soil Management Plan – Suffolk Application Document 7.5.10.2 Outline Soil Management Plan - Kent	DCO Schedule 3, Requirement 6 Soil Management Plan – Suffolk DCO Schedule 3, Requirement 6 Soil Management Plan – Kent

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			means of access to affected properties, facilities and land parcels will be communicated to affected parties at the start of the project, with any changes communicated in advance of the change being implemented. Where field-to-field access points require alteration as a result of construction, alternative suitable field access will be provided in consultation with the landowner/occupier.				
AS04	Application Document 6.2.2.6 Part 2 Suffolk Chapter 6 Agriculture & Soils and Application Document 6.2.3.6 Part 3 Kent Chapter 6 Agriculture & Soils	Risk to livestock water supplies during construction works	Existing water supplies for livestock and irrigation will be identified pre-construction. Where supplies will be lost or access compromised by construction works, temporary alternative supplies will be provided. Water supplies will be reinstated following construction.	Control and management measures	Construction	Application Document 7.5.3 Outline Onshore Construction Environmental Management Plan	DCO Schedule 3, Requirement 6 Onshore Construction Environmental Management Plan
AS05	Application Document 6.2.2.6 Part 2 Suffolk Chapter 6 Agriculture & Soils and Application Document 6.2.3.6 Part 3 Kent Chapter 6 Agriculture & Soils	Impacts to agricultural land drainage during construction works	Consultation with affected landowners will be carried out to investigate the current extent of land drainage which will be taken into account in the development of the Drainage Management Plan (see W14) prior to construction, with the intent of maintaining the efficiency of the existing land drainage system.	Control and management measures	Construction	Application Document 7.5.10.1 Outline Soil Management Plan – Suffolk Application Document 7.5.10.2 Outline Soil Management Plan - Kent	DCO Schedule 3, Requirement 6 Soil Management Plan – Suffolk DCO Schedule 3, Requirement 6 Soil Management Plan – Kent
AS06	Application Document 6.2.2.6 Part 2 Suffolk Chapter 6 Agriculture & Soils and Application Document 6.2.3.6 Part 3 Kent Chapter 6 Agriculture & Soils	Discovery of animal bones during construction works	Should animal bones be discovered during construction, which may indicate a potential burial site, works will cease, and advice will be sought from the Animal Health Regional	Control and management measures	Construction	Application Document 7.5.3 Outline Onshore Construction Environmental Management Plan	DCO Schedule 3, Requirement 6 Onshore Construction Environmental Management Plan

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			Office on how to proceed, relevant to the origin and age of the materials found.				
AS07	Application Document 6.2.2.6 Part 2 Suffolk Chapter 6 Agriculture & Soils and Application Document 6.2.3.6 Part 3 Kent Chapter 6 Agriculture & Soils	Risk of outbreak of disease during construction works	All movement of plant and vehicles between fields will cease in the event of a notification by the Department for Environment, Food and Rural Affairs (Defra) of a disease outbreak in the vicinity of the site that requires the cessation of activities. Advice will be sought from Defra in order to develop suitable working methods required to reduce the biosecurity risk associated with the continuation of works.	Control and management measures	Construction	Application Document 7.5.3 Outline Onshore Construction Environmental Management Plan	DCO Schedule 3, Requirement 6 Onshore Construction Environmental Management Plan
AS08	Application Document 6.2.2.6 Part 2 Suffolk Chapter 6 Agriculture & Soils and Application Document 6.2.3.6 Part 3 Kent Chapter 6 Agriculture & Soils	Changes to drainage pathways due to trench excavations	Clay bungs or other vertical barriers will be constructed within trench excavations where deemed necessary by a suitably experienced person, to prevent the creation of preferential drainage pathways.	Control and management measures	Construction	Application Document 7.5.3 Outline Onshore Construction Environmental Management Plan	DCO Schedule 3, Requirement 6 Onshore Construction Environmental Management Plan
AS09	Application Document 6.2.2.6 Part 2 Suffolk Chapter 6 Agriculture & Soils and Application Document 6.2.3.6 Part 3 Kent Chapter 6 Agriculture & Soils	Impacts on agricultural land and soils	Sensitive routeing and siting of infrastructure and temporary works to reduce impacts on agricultural land and soils.	Embedded	Construction	Environmental Statement	Embedded measure that does not require securing mechanism
AS11	Application Document 6.2.2.6 Part 2 Suffolk Chapter 6 Agriculture & Soils and Application Document 6.2.3.6 Part 3 Kent Chapter 6 Agriculture & Soils	Impacts on agricultural land and soils	The temporary nature of many of the construction activities and the subsequent restoration of the land and its return to the preconstruction use is likely to result in the avoidance of long-term impacts on agricultural and soil receptors.	Embedded	Construction	Environmental Statement	Embedded measure that does not require securing mechanism

(1) ID	(2) ES or Standalone Document Reference	(3) Potential Changes and Effects	(4) Mitigation commitment	(5) Mitigation	(6) Project Phase	(7) Securing Document/Plan	(8) Securing Mechanism
AS12	Application Document 7.5.3 Outline Onshore Construction Environmental Management Plan	Impact on vegetation reinstatement	Where arable field margin and acid grassland reinstatement will occur, the top 10 cm of topsoil will be stored separately from the remaining topsoil to ensure it is replaced last.	Control and management measure	Construction	Application Document 7.5.3 Outline Onshore Construction Environmental Management Plan	DCO Schedule 3, Requirement 6 Onshore Construction Environmental Management Plan
Traffic and Transport							
TT01	Application Document 6.2.2.7 Part 2 Suffolk Chapter 7 Traffic and Transport and Application Document 6.2.3.7 Part 3 Kent Chapter 7 Traffic and Transport	Impacts on receptors from traffic and transport changes during construction	The Outline CTMTPs identify measures to reduce route and journey mileage to and from and around site, and prevent nuisance to the residents, businesses and the wider community caused by parking, vehicle movements and access restrictions. They also provide suitable control for the means of access and egress to the public highway and set out measures for the maintenance and upkeep of the public highway. The plans also identify access for emergency vehicles. They also set out measures to reduce safety risks through construction vehicle and driver quality standards and measures to manage abnormal loads.	Control and management measures	Construction	Application Document 7.5.1.1 Outline Construction Traffic Management and Travel Plan – Suffolk Application Document 7.5.1.2 Outline Construction Traffic Management and Travel Plan – Kent	DCO Schedule 3, Requirement 6 Construction Traffic Management and Travel Plan – Suffolk DCO Schedule 3, Requirement 6 Construction Traffic Management and Travel Plan – Kent
TT02	Application Document 6.2.2.7 Part 2 Suffolk Chapter 7 Traffic and Transport and Application Document 6.2.3.7 Part 3 Kent Chapter 7 Traffic and Transport	Non-compliance with CTMTP measures leading to adverse impacts on traffic and transport	The contractor(s) will implement a monitoring and reporting system to check compliance with the measures set out within the Outline CTMTPs. This will include the need for a Global Positioning System (GPS) tracking system to be fitted to Heavy Goods Vehicles to check for compliance with authorised construction routes. The contractor(s) will also be	Control and management measures	Construction	Application Document 7.5.1.1 Outline Construction Traffic Management and Travel Plan – Suffolk Application Document 7.5.1.2 Outline Construction Traffic Management and Travel Plan – Kent	DCO Schedule 3, Requirement 6 Construction Traffic Management and Travel Plan – Suffolk DCO Schedule 3, Requirement 6 Construction Traffic Management and Travel Plan – Kent

(1) ID	(2) ES or Standalone Document Reference	(3) Potential Changes and Effects	(4) Mitigation commitment	(5) Mitigation	(6) Project Phase	(7) Securing Document/Plan	(8) Securing Mechanism
			expected to monitor construction vehicles and routing as set out in Section 7 of the Construction Traffic Management and Travel Plans for Suffolk and Kent and take action as described in the same section.				
TT03	Application Document 6.2.2.7 Part 2 Suffolk Chapter 7 Traffic and Transport and Application Document 6.2.3.7 Part 3 Kent Chapter 7 Traffic and Transport	Disruption to public right of way (PRoW) network during construction works	All designated Public Rights of Way (PRoWs) will be identified, and any potential temporary and/or permanent diversions applied for/detailed in the DCO. PRoWs will be kept open as far as possible and, where crossed by a construction access, priority will be given to PRoW users over construction traffic. All designated PRoWs crossing the working area will be managed with access only closed for the shortest period necessary to allow construction activities to occur. Any required diversions will be clearly marked at both ends with signage explaining the diversion, the duration of the diversion (for temporary diversions) and a contact number for any concerns. This is outlined in the Outline Public Rights of Way Management Plans.	Control and management measures	Construction	Application Document 7.5.9.1 Outline Public Rights of Way Management Plan – Suffolk Application Document 7.5.9.2 Outline Public Rights of Way Management Plan – Kent	DCO Schedule 3, Requirement 6 Public Rights of Way (PRoW) Management Plan – Suffolk DCO Schedule 3, Requirement 6 Public Rights of Way (PRoW) Management Plan – Kent
TT04	Application Document 6.2.2.7 Part 2 Suffolk Chapter 7 Traffic and Transport and Application Document 6.2.3.7 Part 3 Kent Chapter 7 Traffic and Transport	Impacts on receptors from traffic and transport changes during construction	The Proposed Project is not anticipated to have any traffic and transport impacts on Sundays/Bank Holidays with the restrictions identified in the Outline CTMTPs, which	Control and management measures	Construction	Application Document 7.5.1.1 Outline Construction Traffic Management and Travel Plan – Suffolk Application Document 7.5.1.2 Outline Construction Traffic Management and Travel Plan – Kent	DCO Schedule 3, Requirement 6 Construction Traffic Management and Travel Plan – Suffolk

(1) ID	(2) ES or Standalone Document Reference	(3) Potential Changes and Effects	(4) Mitigation commitment	(5) Mitigation	(6) Project Phase	(7) Securing Document/Plan	(8) Securing Mechanism
		(Sundays/Bank Holidays)	includes limiting HGV activity to a maximum of 30 HGVs per day on Sundays and public holidays.				DCO Schedule 3, Requirement 6 Construction Traffic Management and Travel Plan – Kent
Noise and Vibration							
NV01	Application Document 6.2.2.9 Part 2 Suffolk Chapter 9 Noise and Vibration and Application Document 6.2.3.9 Part 3 Kent Chapter 9 Noise and Vibration	Impacts on noise sensitive receptors	Construction working will be undertaken within the agreed working hours set out within the DCO. Best practicable means (e.g. screening) to reduce construction noise will be set out within the CEMP and Construction Noise and Vibration Management Plan (NVMP), which will be substantially in accordance with the Outline Construction Noise and Vibration Management Plan (OCNVMP).	Control and management measures	Construction	Application Document 7.5.8.1 Outline Construction Noise and Vibration Management Plan – Suffolk Application Document 7.5.8.2 Outline Construction Noise and Vibration Management Plan – Kent	DCO Schedule 3, Requirement 7 Construction hours DCO Schedule 3, Requirement 6 Construction Noise and Vibration Management Plan (NVMP) – Suffolk DCO Schedule 3, Requirement 6 Construction Noise and Vibration Management Plan (NVMP) – Kent
NV02	Application Document 6.2.2.9 Part 2 Suffolk Chapter 9 Noise and Vibration and Application Document 6.2.3.9 Part 3 Kent Chapter 9 Noise and Vibration	Impacts on noise sensitive receptors	Construction traffic routes, access tracks, and construction haul routes will be surveyed for damage and irregularities (e.g. potholes) that may lead to vibration from construction traffic. Access tracks and construction haul routes will be well maintained.	Control and management measures	Construction	Application Document 7.5.3 Outline Onshore Construction Environmental Management Plan	DCO Schedule 3, Requirement 6 Onshore Construction Environmental Management Plan
NV03	Application Document 6.2.2.9 Part 2 Suffolk Chapter 9 Noise and Vibration and Application Document 6.2.3.9 Part 3 Kent Chapter 9 Noise and Vibration	Impacts on noise sensitive receptors	The contractor will conduct detailed construction noise and vibration assessments to determine whether there are likely to be any new or different significant adverse effects at noise and vibration sensitive receptors, including nocturnal species, and therefore whether additional measures, including site-specific Best Practicable Means (BPM), may be required. Should	Control and management measures	Construction	Application Document 7.5.3 Outline Onshore Construction Environmental Management Plan Application Document 7.5.8.1 Outline Construction Noise and Vibration Management Plan – Suffolk Application Document 7.5.8.2 Outline Construction Noise and Vibration Management Plan - Kent	DCO Schedule 3, Requirement 6 Onshore Construction Environmental Management Plan DCO Schedule 3, Requirement 6 Construction Noise and Vibration Management Plan (NVMP) – Suffolk DCO Schedule 3, Requirement 6 Construction Noise and Vibration Management Plan (NVMP) – Kent

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			the reassessment of intra-project cumulative effects (see commitment GG40) indicate that significant effects are likely to occur, the contractor will consider if there are proportionate and practicable ways to reduce potential noise effects to a greater degree than BPM. The contractor will update the OCNVMP into the CNVMP and include site specific noise and vibration mitigation, as may be required.				
NV06	Application Document 6.2.2.9 Part 2 Suffolk Chapter 9 Noise and Vibration and Application Document 6.2.3.9 Part 3 Kent Chapter 9 Noise and Vibration	Impacts on noise sensitive receptors	Sensitive routeing and siting of infrastructure and temporary works to avoid or reduce impacts on noise sensitive receptors.	Embedded	Construction	Environmental Statement	Embedded measure that does not require securing mechanism
Air Quality							
AQ01	Application Document 6.2.2.8 Part 2 Suffolk Chapter 8 Air Quality and Application Document 6.2.3.8 Part 3 Kent Chapter 8 Air Quality	Impacts on sensitive receptors from dust emissions	Develop and implement an Air Quality Management Plan (AQMP) approved by the Local Authority.	Control and management measure	Construction	Application Document 7.5.6.1 Outline Air Quality Management Plan – Suffolk Application Document 7.5.6.2 Outline Air Quality Management Plan – Kent	DCO Schedule 3, Requirement 6 Air Quality Management Plan – Suffolk DCO Schedule 3, Requirement 6 Air Quality Management Plan – Kent
AQ02	Application Document 6.2.2.8 Part 2 Suffolk Chapter 8 Air Quality and Application Document 6.2.3.8 Part 3 Kent Chapter 8 Air Quality	Impacts on sensitive receptors from dust emissions	Monitoring • Undertake daily on-site and off-site inspection, where receptors (including roads) are nearby, to monitor dust, record inspection results, and make the log available to the Local Authority when asked. This should include regular dust soiling checks of surfaces such as street furniture, cars and window sills within 100 m of site boundary, with	Control and management measure	Construction	Application Document 7.5.6.1 Outline Air Quality Management Plan – Suffolk Application Document 7.5.6.2 Outline Air Quality Management Plan – Kent	DCO Schedule 3, Requirement 6 Air Quality Management Plan – Suffolk DCO Schedule 3, Requirement 6 Air Quality Management Plan – Kent

(1) ID	(2) ES or Standalone Document Reference	(3) Potential Changes and Effects	(4) Mitigation commitment	(5) Mitigation	(6) Project Phase	(7) Securing Document/Plan	(8) Securing Mechanism
			cleaning to be provided if necessary. • Carry out regular site inspections to monitor compliance with the AQMP, record inspection results, and make an inspection log available to the local authority when asked. • Increase the frequency of site inspections by the person accountable for air quality and dust issues on site when activities with a high potential to produce dust are being carried out and during prolonged dry or windy conditions. • Agree dust deposition, dust flux, or real-time PM_{10} continuous monitoring locations with the Local Authority prior to installation. Where possible, commence baseline monitoring at least three months before work commences on site or, if it a large site, before work on a phase commences. • Provide Local Authority access to real-time monitoring data.				
AQ03	Application Document 6.2.2.8 Part 2 Suffolk Chapter 8 Air Quality and Application Document 6.2.3.8 Part 3 Kent Chapter 8 Air Quality	Impacts on sensitive receptors from dust emissions	Preparing and maintaining the site: • Erect solid screens or barriers around dusty activities or the site boundary so that they are at least as high as any stockpiles on site.	Control and management measure	Construction	Application Document 7.5.6.1 Outline Air Quality Management Plan – Suffolk Application Document 7.5.6.2 Outline Air Quality Management Plan – Kent	DCO Schedule 3, Requirement 6 Air Quality Management Plan – Suffolk DCO Schedule 3, Requirement 6 Air Quality Management Plan – Kent

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			• Fully enclose site or specific operations where there is a high potential for dust production and the site is active for an extensive period. • Keep site fencing, barriers and scaffolding clean using wet methods. • Remove materials that have a potential to produce dust from site as soon as possible, unless being re-used on site. If they are being re-used on-site, cover as described below.				
AQ04	Application Document 6.2.2.8 Part 2 Suffolk Chapter 8 Air Quality and Application Document 6.2.3.8 Part 3 Kent Chapter 8 Air Quality	Impacts on sensitive receptors from dust emissions	Operating vehicle/machinery and sustainable travel: • Avoid the use of diesel or petrol powered generators and use mains electricity or battery powered equipment where practicable. • Impose and signpost an appropriate maximum-speed-limit on unsurfaced haul roads and work areas. • Hold regular liaison meetings with other high risk construction sites within 500 m of the site boundary, to ensure plans are co-ordinated to minimise dust and particulate matter emissions and to understand the interactions of the off-site transport/deliveries	Control and management measure	Construction	Application Document 7.5.6.1 Outline Air Quality Management Plan – Suffolk Application Document 7.5.6.2 Outline Air Quality Management Plan – Kent	DCO Schedule 3, Requirement 6 Air Quality Management Plan – Suffolk DCO Schedule 3, Requirement 6 Air Quality Management Plan – Kent

(1) ID	(2) ES or Standalone Document Reference	(3) Potential Changes and Effects	(4) Mitigation commitment	(5) Mitigation	(6) Project Phase	(7) Securing Document/Plan	(8) Securing Mechanism
			which might be using the same strategic road network routes.				
AQ05	Application Document 6.2.2.8 Part 2 Suffolk Chapter 8 Air Quality and Application Document 6.2.3.8 Part 3 Kent Chapter 8 Air Quality	Impacts on sensitive receptors from dust emissions	Operations: • Only use cutting, grinding or sawing equipment fitted or in conjunction with suitable dust suppression techniques such as water sprays or local extraction, e.g. suitable local exhaust ventilation systems. • Ensure an adequate water supply on the site for effective dust/particulate matter suppression/mitigation, using non-potable water where possible and appropriate. • Use enclosed chutes and conveyors and covered skips. • Minimise drop heights from conveyors, loading shovels, hoppers and other loading or handling equipment and use fine water sprays on such equipment wherever appropriate.	Control and management measure	Construction	Application Document 7.5.6.1 Outline Air Quality Management Plan – Suffolk Application Document 7.5.6.2 Outline Air Quality Management Plan – Kent	DCO Schedule 3, Requirement 6 Air Quality Management Plan – Suffolk DCO Schedule 3, Requirement 6 Air Quality Management Plan – Kent
AQ06	Application Document 6.2.2.8 Part 2 Suffolk Chapter 8 Air Quality and Application Document 6.2.3.8 Part 3 Kent Chapter 8 Air Quality	Impacts on sensitive receptors from dust emissions	Earthworks: • Use Hessian, mulches or trackifiers where it is not possible to re-vegetate or cover with topsoil, as soon as practicable. • Only remove the cover in small areas during work and not all at once.	Control and management measure	Construction	Application Document 7.5.6.1 Outline Air Quality Management Plan – Suffolk Application Document 7.5.6.2 Outline Air Quality Management Plan – Kent	DCO Schedule 3, Requirement 6 Air Quality Management Plan – Suffolk DCO Schedule 3, Requirement 6 Air Quality Management Plan – Kent

(1) ID	(2) ES or Standalone Document Reference	(3) Potential Changes and Effects	(4) Mitigation commitment	(5) Mitigation	(6) Project Phase	(7) Securing Document/Plan	(8) Securing Mechanism
AQ07	Application Document 6.2.2.8 Part 2 Suffolk Chapter 8 Air Quality and Application Document 6.2.3.8 Part 3 Kent Chapter 8 Air Quality	Impacts on sensitive receptors from dust emissions	Construction: • Avoid scabbling (roughening of concrete surfaces) if possible. • Ensure sand and other aggregates are stored in bunded areas and are not allowed to dry out, unless this is required for a particular process, in which case ensure that appropriate additional control measures are in place. • Ensure bulk cement and other fine powder materials are delivered in enclosed tankers and stored in silos with suitable emission control systems to prevent escape of material and overfilling during delivery. • For smaller supplies of fine powder materials ensure bags are sealed after use and stored appropriately to prevent dust.	Control and management measure	Construction	Application Document 7.5.6.1 Outline Air Quality Management Plan – Suffolk Application Document 7.5.6.2 Outline Air Quality Management Plan – Kent	DCO Schedule 3, Requirement 6 Air Quality Management Plan – Suffolk DCO Schedule 3, Requirement 6 Air Quality Management Plan – Kent
AQ08	Application Document 6.2.2.8 Part 2 Suffolk Chapter 8 Air Quality and Application Document 6.2.3.8 Part 3 Kent Chapter 8 Air Quality	Impacts on sensitive receptors from dust caused by trackout	Trackout: • Ensure vehicles entering and leaving sites are covered to prevent escape of materials during transport. • Inspect on-site haul routes for integrity and instigate necessary repairs to the surface as soon as reasonably practicable. • Record all inspections of haul routes and any	Control and management measure	Construction	Application Document 7.5.6.1 Outline Air Quality Management Plan – Suffolk Application Document 7.5.6.2 Outline Air Quality Management Plan – Kent	DCO Schedule 3, Requirement 6 Air Quality Management Plan – Suffolk DCO Schedule 3, Requirement 6 Air Quality Management Plan – Kent

(1) ID	(2) ES or Standalone Document Reference	(3) Potential Changes and Effects	(4) Mitigation commitment	(5) Mitigation	(6) Project Phase	(7) Securing Document/Plan	(8) Securing Mechanism
			subsequent action in a site log book. • Install hard surfaced haul routes, which are regularly damped down with fixed or mobile sprinkler systems, or mobile water bowsers and regularly cleaned where possible.				
AQ09	Application Document 6.2.2.8 Part 2 Suffolk Chapter 8 Air Quality and Application Document 6.2.3.8 Part 3 Kent Chapter 8 Air Quality	Impacts on sensitive receptors as a result of Non-Road Mobile Machinery (NRMM) emissions	Ensure all equipment complies with the appropriate Non-Road Mobile Machinery (NRMM) standards. Use stage 4 NRMM as a minimum and stage 5 where possible. The use of Stage 4 equipment will be notified to the LPA in advance. Additionally, where possible, use alternative / renewable energy to power NRMM.	Control and management measure	Construction	Application Document 7.5.6.1 Outline Air Quality Management Plan – Suffolk Application Document 7.5.6.2 Outline Air Quality Management Plan – Kent	DCO Schedule 3, Requirement 6 Air Quality Management Plan – Suffolk DCO Schedule 3, Requirement 6 Air Quality Management Plan – Kent
AQ10	Application Document 6.2.2.8 Part 2 Suffolk Chapter 8 Air Quality and Application Document 6.2.3.8 Part 3 Kent Chapter 8 Air Quality	Impacts on air quality impacts sensitive receptors	Sensitive routeing and siting of infrastructure and temporary works to avoid or reduce air quality impacts on sensitive receptors.	Embedded	Construction	Environmental Statement	Embedded measure that does not require securing mechanism Actions and Commitments (REAC)
AQ12	Application Document 7.5.6.1 Outline Air Quality Management Plan – Suffolk Application Document 7.5.6.2 Outline Air Quality Management Plan – Kent	Impacts on sensitive receptors from dust emissions	Weather forecasts will be checked on a daily basis. Should periods of particularly dry or windy weather be forecast, dust mitigation measures would be reviewed and where possible high-risk activities will be rescheduled to minimise air quality impacts on sensitive receptors.	Control and management measure	Construction	Application Document 7.5.6.1 Outline Air Quality Management Plan – Suffolk Application Document 7.5.6.2 Outline Air Quality Management Plan – Kent	DCO Schedule 3, Requirement 6 Air Quality Management Plan – Suffolk DCO Schedule 3, Requirement 6 Air Quality Management Plan – Kent
AQ13			Site logs will include a list of NRMM being used, recording whether each item is Stage 5 or Stage 4 and the reason for any				

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			approved Stage 4 use. This log will be made available to the LPA upon request.				
AQ14			The Air Quality Management Plan will be reviewed and updated throughout the construction phase of the project as necessary, based on monitoring results				
Socio-economics, Recreation and Tourism							
SE01	Application Document 6.2.2.10 Part 2 Suffolk Chapter 10 Socio-Economics, Recreation, and Tourism and Application Document 6.2.3.10 Part 3 Kent Chapter 10 Socio-Economics, Recreation, and Tourism	Impacts on socio-economics, recreation and tourism receptors	Sensitive routing and siting of infrastructure and temporary works to avoid or reduce impacts on socio-economics, recreation and tourism receptors	Embedded	Construction	Environmental Statement	Embedded measure that does not require securing mechanism
SE04	Application Document 7.5.3 Outline Onshore Construction Environmental Management Plan	Impacts on tourism receptors	The Applicant will liaise with East Suffolk Council, Suffolk County Council, the Local Destination Management Organisation (DMO) and the Local Visitor Economy Partnership (LVEP) during construction to discuss how potential impacts on tourism within Suffolk could be minimised and benefits be maximised, such as through considering the use of vouchers for workers to spend eating out in the local area and / or encouraging workers to remove high visibility jackets when work is finished. Liaison, where practical, will be undertaken through existing working groups which were established for the Sizewell C project. The Applicant will also liaise with Kent County	Control and management measures	Construction	Application Document 7.5.3 Outline Onshore Construction Environmental Management Plan	DCO Schedule 3, Requirement 6 Onshore Construction Environmental Management Plan

(1) ID	(2) ES or Standalone Document Reference	(3) Potential Changes and Effects	(4) Mitigation commitment	(5) Mitigation	(6) Project Phase	(7) Securing Document/Plan	(8) Securing Mechanism
			Council, Thanet District Council and relevant tourism organisations during construction to discuss how potential impacts on tourism within Kent could be minimised and benefits be maximised. For example, this could include discussions with local cafes to assist in providing catering and / or hot drinks during works at particular locations. .				
SE06	Application Document 7.5.3 Outline Onshore Construction Environmental Management Plan		The Applicant (including the contractors) will develop and implement a Social Value strategy. As the Proposed Project develops, the detail of the approach will be shared with the relevant local authorities when available.	Additional	Construction	Application Document 7.5.3 Outline Onshore Construction Environmental Management Plan	DCO Schedule 3, Requirement 6 Onshore Construction Environmental Management Plan
Health and Wellbeing							
HW01	Application Document 6.2.2.11 Part 2 Suffolk Chapter 11 Health & Wellbeing and Application Document 6.2.3.11 Part 3 Kent Chapter 11 Health & Wellbeing	Impacts on health and wellbeing receptors	Sensitive routeing and siting of infrastructure and temporary works to avoid or reduce impacts on health and wellbeing receptors.	Embedded	Construction	Environmental Statement	Embedded measure that does not require securing mechanism
Climate Change							
CC01	Application Document 6.2.5.1 Part 5 Combined Chapter 1 Climate Change	Climate change effects	Sensitive routeing and siting of infrastructure and temporary works, to avoid or reduce climate change effects	Embedded	Construction	Environmental Statement	Embedded measure that does not require securing mechanism
CC02	Application Document 6.2.5.1 Part 5 Combined Chapter 1 Climate Change	Embodied carbon as a result of the Proposed Development	National Grid will work to reduce carbon across the project in line with National Grid's RIIO-T3 Environmental Action Plan. National Grid has a corporate commitment to a	Embedded	Construction	Not necessary National Grid's RIIO-T3 Environmental Action Plan or any successor document	Not necessary National Grid's RIIO-T3 Environmental Action Plan or any successor document

(1) ID	(2) ES or Standalone Document Reference	(3) Potential Changes and Effects	(4) Mitigation commitment	(5) Mitigation	(6) Project Phase	(7) Securing Document/Plan	(8) Securing Mechanism
			50% reduction in scope one and two emissions from a 2018-19 baseline and supports Net Zero by 2050.				
CC05	Application Document 6.2.5.1 Part 5 Combined Chapter 1 Climate Change	Climate change resilience	Designing the Proposed Project to be resilient to any significant effects of climate change.	Embedded	Operation	Application Document 7.12.1 Design Principles - Suffolk Application Document 7.12.2 Design Principles - Kent	DCO Schedule 3, Requirement 3
CC06	Application Document 6.2.5.1 Part 5 Combined Chapter 1 Climate Change	Effects from Greenhouse Gas emissions	The GHG management process detailed in Application Document 7.5.13 Greenhouse Gas Reduction Strategy. The GHG Reduction Strategy sets out how the GHG emissions associated with the Proposed Project should be managed and reduced, including a framework for identifying and prioritising GHG reduction opportunities.	Embedded	Construction and Operation	Application Document 7.5.13 Greenhouse Gas Reduction Strategy	DCO Schedule 3, Requirement 5 Greenhouse Gas Reduction Strategy
Arboriculture							
A06	Application Document 6.10 Arboricultural Impact Assessment	Requirements for additional tree works not specified in the Arboricultural Method Statement and final Tree Protection Plans	All tree works required which are not identified within the Arboricultural Method Statement and final Tree Protection Plans will require consent from the relevant local planning authority.	Additional	Construction	Arboricultural Method Statement	DCO Schedule 3, Requirement 8 Retention and protection of existing trees and hedgerows
A21	Application Document 9.84 Register of Environmental Actions and Commitments (REAC)	Loss of trees	Replacement tree planting of three standard trees per each individual mature tree to be removed (replanting with the same species where feasible) as defined within the Arboricultural Method Statement, provided under Requirement 8 within Schedule 3 of the draft	Additional	Operation	Arboricultural Method Statement	DCO Schedule 3, Requirement 8 Retention and protection of existing trees and hedgerows

(1) ID	(2) ES or Standalone Document Reference	(3) Potential Changes and Effects	(4) Mitigation commitment	(5) Mitigation	(6) Project Phase	(7) Securing Document/Plan	(8) Securing Mechanism
			DCO (**Application Document 3.1**).				
A22	Application Document 9.84 Register of Environmental Actions and Commitments (REAC)	Reinstatement of boundary vegetation	Prior to the start of construction the Applicant will carry out a photographic / video and topographical survey of the Order Limits to map the trees and hedgerows affected by the project. This information will be made available to the Local Planning Authorities. The Applicant will then carry out a post construction photographic / video and topographical survey to enable comparison between the two with regards to the reinstatement of boundary vegetation following the works. The information on the trees will be utilised within the Arboricultural Method Statement which is to be provided under Requirement 8 within Schedule 3 of the draft DCO.	Additional	Construction and Operation	Arboricultural Method Statement	DCO Schedule 3, Requirement 8 Retention and protection of existing trees and hedgerows

Suffolk Onshore Scheme

Table 3.2 Register of Environmental Actions and Commitments – Suffolk Onshore Scheme

(1) ID	(2) ES or Standalone Document Reference	(3) Potential Changes and Effects	(4) Mitigation commitment	(5) Mitigation	(6) Project Phase	(7) Securing Document/Plan	(8) Securing Mechanism
General Project Commitments (i.e. relates to more than one environmental topic)							
GG34	Application Document 6.2.1.4 Part 1 Introduction Chapter 4 Description of the Proposed Project	Environmental impacts from the operation of Friston Substation	Friston Substation described in Work No. 1B should be designed to be in general accordance with the Key Design Principles set out in Table 4.1 of	Embedded	Operation	Application Document 7.12.1 Design Principles - Suffolk Application Document 3.1 Development Consent Order	DCO Schedule 3, Requirement 3

(1) ID	(2) ES or Standalone Document Reference	(3) Potential Changes and Effects	(4) Mitigation commitment	(5) Mitigation	(6) Project Phase	(7) Securing Document/Plan	(8) Securing Mechanism
	Application Document 6.2.2.1 Part 2 Suffolk Chapter 1 Landscape and Visual		the Design Principles – Suffolk (Application Document 7.12.1).				
GG37	Application Document 7.5.3 Outline Onshore Construction Environmental Management Plan	Inter-project cumulative effects	National Grid have aligned working hours for the Proposed Project's Works No. 1A and 1B (the National Grid substation at Friston Kiln Lane and associated overhead line works) set out in Application Document 3.1 draft Development Consent Order with the working hours secured in the SPR East Anglia One (North) and East Anglia Two DCOs.	Embedded	Construction	Application Document 3.1 Development Consent Order	DCO Schedule 3, Requirement 7
Landscape and Visual							
LV03	Application Document 6.2.2.1 Part 2 Suffolk Chapter 1 Landscape and Visual	Impacts on landscape and views from failure of reinstatement and mitigation planting	As set out within the Outline LEMP for Suffolk, a five-year aftercare period will be established for all reinstatement and mitigation planting along the HVDC and HVAC cable corridors. For the Suffolk Onshore Scheme, all planting associated with the Fromus Bridge, permanent access track, Friston substation (under Scenario 2) and Saxmundham converter station will be managed and maintained for the life time of the asset.	Control and Management Measure	Construction	Application Document 7.5.7.1 Outline Landscape and Ecological Management Plan - Suffolk	DCO Schedule 3, Requirement 6 Landscape and Ecological Management Plan (LEMP) – Suffolk
LV08	Application Document 6.2.2.1 Part 2 Suffolk Chapter 1 Landscape and Visual	Loss of habitat within the Site of Special Scientific Interest (SSSI): Leiston – Aldeburgh and North Warren RSPB Reserve.	The installation method for the Suffolk Landfall is a trenchless technique to minimise the loss of habitat within the Site of Special Scientific Interest (SSSI): Leiston – Aldeburgh and North Warren RSPB Reserve.	Embedded	Construction	Application Document 7.5.7.1 Outline Landscape and Ecological Management Plan - Suffolk	DCO Schedule 3, Requirement 6 Landscape and Ecological Management Plan (LEMP) – Suffolk
LV09	Application Document 6.2.2.1 Part 2 Suffolk Chapter 1 Landscape and Visual	Impacts on the Area of Outstanding Natural Beauty (AONB) due to the	The temporary works within the AONB associated with the landfall and HVDC would be fully reinstated in accordance with Control and Management	Embedded	Construction	Application Document 7.12.1 Design Principles - Suffolk	DCO Schedule 3, Requirement 6 Landscape and

(1) ID	(2) ES or Standalone Document Reference	(3) Potential Changes and Effects	(4) Mitigation commitment	(5) Mitigation	(6) Project Phase	(7) Securing Document/Plan	(8) Securing Mechanism
		landfall and HVDC cables	Measures and further outlined in Application Document 7.5.7.1 Outline Landscape and Ecological Management Plan – Suffolk.				Ecological Management Plan (LEMP) – Suffolk
LV10	Application Document 6.2.2.1 Part 2 Suffolk Chapter 1 Landscape and Visual	Impacts on landscape and visual receptors due to the Saxmundham Converter Station	Locating the Saxmundham Converter Station as far as practicable within the southern extent of the site, away from the B1119 and the gateway approach into Saxmundham and to maximise the opportunity for landscape integration planting and screening to improve landscape fit and minimise visual impact.	Embedded	Operation	Application Document 7.12.1 Design Principles - Suffolk	DCO Schedule 3, Requirement 3
LV11			Consideration of the orientation and massing of the Saxmundham Converter Station in order that existing landscape features can be retained and enhanced (woodland, hedgerow planting).				
LV12			Designing and arranging the converter station to be sympathetic to their surroundings and be integrated into the landscaped setting of the site. Buildings to be clad in appropriate materials and colours designed to appear recessive within the landscape, to help integrate the building into the landscape and views.				
LV13	Application Document 6.2.2.1 Part 2 Suffolk Chapter 1 Landscape and Visual	Impacts on landscape and visual receptors due to the Saxmundham Converter Station (including River Fromus Crossing)	Implementation of the outline landscape strategy for the Saxmundham Converter Station in line with the following principles: • Integrate the Suffolk Onshore Scheme into the existing landscape pattern as far as practicable by utilising and following existing features, including vegetation;	Embedded	Operation	Application Document 7.5.7.1 Outline Landscape and Ecological Management Plan – Suffolk Application Document 7.5.7.1.1 Saxmundham Converter Station Outline Landscape Mitigation within Application Document 7.5.7.1 Outline Landscape and Ecological Management Plan – Suffolk	DCO Schedule 3, Requirement 6 Landscape and Ecological Management Plan (LEMP) – Suffolk

(1) ID	(2) ES or Standalone Document Reference	(3) Potential Changes and Effects	(4) Mitigation commitment	(5) Mitigation	(6) Project Phase	(7) Securing Document/Plan	(8) Securing Mechanism
			• Replace habitat lost as a result of construction of the Suffolk Onshore Scheme and enhance habitats through the creation of woodland, hedgerow, grassland and riparian habitats; • Protect existing vegetation wherever possible, including the veteran and ancient trees at the River Fromus bridge crossing; • Strengthen the existing landscape framework of the site, extending and enhancing the woodland planting along the western and southern boundaries with native woodland planting to provide structural screening to the Saxmundham Converter Station; • Introduce native hedgerow and tree planting along sections of the B1119 to partially screen views of the Saxmundham Converter Station whilst maintaining some views of the planted edge of Saxmundham (identified in the Saxmundham Neighbourhood Plan as an important aspect of the setting and in views when approaching along the B1119 from the east). • To consider opportunities for providing permissive access across the Saxmundham Converter Station site and establishing an attractive amenity value for users of the permanent PRoW diversions.				

(1) ID	(2) ES or Standalone Document Reference	(3) Potential Changes and Effects	(4) Mitigation commitment	(5) Mitigation	(6) Project Phase	(7) Securing Document/Plan	(8) Securing Mechanism
			• To provide an integrated drainage solution with attenuation ponds planted with marginal wetland species set within a wider context of native scrub planting to improve the biodiversity value across the site. • To strengthen areas of existing planting to provide greater biodiversity and screening function around the River Fromus Bridge. • To establish native woodland planting within the areas previously planted with willow plantation to integrate and partially screen views of the River Fromus Bridge within the valley landscape; • To integrate the permanent access route within the historic parkland landscape with hedgerow and occasional tree planting; • To consider opportunities for advanced planting to provide early establishment of woodland planting; and • Monitoring and maintenance of new planting and seeding to ensure successful establishment.				
LV14	Application Document 6.2.2.1 Part 2 Suffolk Chapter 1 Landscape and Visual	Impacts on landscape and visual receptors due to the River Fromus crossing	The River Fromus bridge design shall be developed as described in Requirement 3(3).	Control and Management Measure	Operation	Application Document 7.12.1 Design Principles - SuffolkApplication Document Application Document 7.5.7.1 Outline Landscape and Ecological Management Plan - Suffolk	DCO Schedule 3 Requirement 3 Detailed Design DCO Schedule 3, Requirement 6 Landscape and Ecological Management

(1) ID	(2) ES or Standalone Document Reference	(3) Potential Changes and Effects	(4) Mitigation commitment	(5) Mitigation	(6) Project Phase	(7) Securing Document/Plan	(8) Securing Mechanism
							Plan (LEMP) – Suffolk
Ecology and Biodiversity							
B20	Application Document 6.2.2.2 Part 2 Suffolk Chapter 2 Ecology and Biodiversity	Impacts from loss of habitats	Creation of 21 ha of woodland, 6.9 ha species rich neutral grassland, 1.5 ha of native hedgerow and 0.8 ha and of balancing pond habitat around the Saxmundham Converter Station and Friston Substation (for the scenario where the substation is built as part of the Proposed Project) The final habitat creation proposals will be developed through the final Landscape and Ecological Management Plan so may deviate from areas/ habitats presented here.	Embedded	Construction	Application Document 7.5.7.1 Outline Landscape and Ecological Management Plan – Suffolk	DCO Schedule 3, Requirement 6 Landscape and Ecological Management Plan (LEMP) – Suffolk
B24	Application Document 6.2.2.2 Part 2 Suffolk Chapter 2 Ecology and Biodiversity	Disturbance of woodlark nests	Where the proposed works are to take place within arable fields or acid grassland, one of two approaches would be applied to the Suffolk Onshore Scheme to ensure no likely significant effects. First would be to clear crops from the fields between October to January inclusive before works commence and then ensure that vegetation is kept clear from those areas until construction starts in that area as any regrowth of vegetation could attract ground-nesting birds such as skylark and woodlark. The second approach is to agree with the landowner and/or tenant to leave the previous crop in the ground so that there is already a tall, dense crop in spring, which would deter ground-nesting birds from utilising that field. Where works are to take place in areas of acid grassland, the first of the two approaches would be utilised.	Embedded	Construction	Application Document 7.5.3 Outline Onshore Construction Environmental Management Plan	DCO Schedule 3, Requirement 6 Onshore Construction Environmental Management Plan

(1) ID	(2) ES or Standalone Document Reference	(3) Potential Changes and Effects	(4) Mitigation commitment	(5) Mitigation	(6) Project Phase	(7) Securing Document/Plan	(8) Securing Mechanism
B25	Application Document 6.2.2.2 Part 2 Suffolk Chapter 2 Ecology and Biodiversity	Disturbance impacts on ecological receptors	A watching brief would be introduced during vegetation clearance in the ditch west of the River Fromus. Displacement of water voles if any are encountered would occur under a Class Licence. This would restrict clearance of any locations where water voles are present to either 15 February to 15 April or 15 September to 31 October. Vegetation clearance will only be undertaken following an updated water vole survey.	Embedded	Construction	Application Document 7.5.3 Outline Onshore Construction Environmental Management Plan	DCO Schedule 3, Requirement 6 Onshore Construction Environmental Management Plan
B26	Application Document 6.2.2.2 Part 2 Suffolk Chapter 2 Ecology and Biodiversity	Impacts on badgers	During the construction phase no lighting will be placed within 40m of an active badger sett. There will be a 40 m setback between the identified badger sett (if active) and the construction compounds S04 and S08.	Embedded	Construction	Application Document 7.5.3 Outline Onshore Construction Environmental Management Plan	DCO Schedule 3, Requirement 6 Onshore Construction Environmental Management Plan
B27	Application Document 6.2.2.2 Part 2 Suffolk Chapter 2 Ecology and Biodiversity	Disturbance to breeding nightjar and woodlark in the Sandlings Special Protection Area (SPA)	A seasonal restriction on compound set-up and demobilisation for the trenchless bore such that it occurs outside the nesting season (February to August). The most potentially disturbing elements of trenchless installation (set up of trenchless compound S10) will take place between September and January, to minimise disturbance of breeding nightjar and woodlark in the adjacent Sandlings SPA.	Additional	Construction	Application Document 7.5.3 Outline Onshore Construction Environmental Management Plan	DCO Schedule 3, Requirement 6 Onshore Construction Environmental Management Plan
B32	Application Document 6.2.2.2 Part 2 Suffolk Chapter 2 Ecology and Biodiversity Application Document 6.9 Water Framework Directive	Impacts on riparian habitat	Riparian habitat improvement along River Fromus through riparian planting. Deliver enhancement of an approximately 500 m stretch of the riparian corridor along the River Fromus from approximate grid references TM 38806 62412 to TM 38825 61847. Within this stretch (although not for its entire length) there will be reprofiling of selected areas of	Additional	Operation	Application Document 7.5.7.1 Outline Landscape and Ecological Management Plan – Suffolk	DCO Schedule 3, Requirement 6 Landscape and Ecological Management Plan (LEMP) – Suffolk

(1) ID	(2) ES or Standalone Document Reference	(3) Potential Changes and Effects	(4) Mitigation commitment	(5) Mitigation	(6) Project Phase	(7) Securing Document/Plan	(8) Securing Mechanism
			the banks of the River Fromus at specific locations (where it would not, for example, require displacement of water voles) to create an approximately 50 cm wide berm just above the typical summer water level. This berm will be planted with riparian vegetation. This will enhance the value of the River Fromus since this stretch of the river has little riparian emergent vegetation. The replanting will be focused on the new bridge, partly in order to improve connectivity beneath the bridge structure; however, other stretches will also be diversified.				
B33	Application Document 6.2.2.2 Part 2 Suffolk Chapter 2 Ecology and Biodiversity	Impacts on nesting sites	To minimise disturbance risk to nesting hobby, any old crow or other similarly large nests within the Order Limits will be removed, if possible, every winter in areas where works are planned for the following nesting season. To ensure no reduction in nesting opportunities for hobby, three wicker baskets will be placed in trees within the Order Limits (or outside the Order limits if agreed with landowners) before the breeding season commences. These baskets would be at least 200 m from planned construction activity in that nesting season. These will be moved, if necessary, each winter to ensure they continue to be in undisturbed locations. They can also be moved to alternative locations during a given nesting season if there is no evidence of nesting at the time.	Additional	Construction	Application Document 7.5.3 Outline Onshore Construction Environmental Management Plan	DCO Schedule 3, Requirement 6 Onshore Construction Environmental Management Plan
B34	Application Document 6.2.2.2 Part 2 Suffolk Chapter 2 Ecology and Biodiversity	Disturbance to barn owl	The barn owl nest box near the River Fromus bridge will be moved further south and two additional nest boxes added.	Additional	Construction	Application Document 7.5.3 Outline Onshore Construction Environmental Management Plan	DCO Schedule 3, Requirement 6 Onshore

(1) ID	(2) ES or Standalone Document Reference	(3) Potential Changes and Effects	(4) Mitigation commitment	(5) Mitigation	(6) Project Phase	(7) Securing Document/Plan	(8) Securing Mechanism
			Regarding the barn owl box north of compound S08, additional barn owl boxes will be erected to ensure no net reduction in nesting opportunities and the compound established when barn owls are not nesting. These barn owl boxes will be located on trees within the Order limits or outside the Order Limits if agreed with landowners.				Construction Environmental Management Plan
B35	Application Document 6.2.2.2 Part 2 Suffolk Chapter 2 Ecology and Biodiversity	Disturbance of nesting woodlark outside the SPA	To avoid disturbance of nesting woodlark outside the SPA, works close to known nesting areas will be commenced during the winter so there is already activity before the nesting season; the birds will then choose alternative nesting locations. In addition, there will be appropriate monitoring for woodlark throughout the nesting season (February-August) by experienced ecologists. If singing males are present the site manager will be notified and steps taken to introduce construction works in the area prior to a nest being established. If a nesting pair is found to be present in the vicinity of construction, then the ecologist will consider the likely location of the nest alongside proposed works planned in the area. Appropriate stand off buffers will be implemented if works are to significantly vary from those already occurring and will remain in place until either the works are completed or an active nest and/or fledged chicks are no longer present. If necessary, advice will be sought from Natural England.	Additional	Construction	Application Document 7.5.3 Outline Onshore Construction Environmental Management Plan	DCO Schedule 3, Requirement 6 Onshore Construction Environmental Management Plan

(1) ID	(2) ES or Standalone Document Reference	(3) Potential Changes and Effects	(4) Mitigation commitment	(5) Mitigation	(6) Project Phase	(7) Securing Document/Plan	(8) Securing Mechanism
B36	Application Document 6.2.2.2 Part 2 Suffolk Chapter 2 Ecology and Biodiversity	Fragmentation of hedgerows and/or woodland belts	Larger gaps in hedgerows or woodland belts would be reduced to 10 m maximum during the night by hurdles or similar.	Additional	Construction	Application Document 7.5.3 Outline Onshore Construction Environmental Management Plan	DCO Schedule 3, Requirement 6 Onshore Construction Environmental Management Plan
B37	Application Document 6.2.2.2 Part 2 Suffolk Chapter 2 Ecology and Biodiversity	Fragmentation of environmental corridors	The gap for access traversing the hedgerow that runs north from Broomfield's Covert will be kept to 10 m maximum.	Additional	Construction	Application Document 7.5.3 Outline Onshore Construction Environmental Management Plan	DCO Schedule 3, Requirement 6 Onshore Construction Environmental Management Plan
B38	Application Document 6.2.2.2 Part 2 Suffolk Chapter 2 Ecology and Biodiversity	Impacts from light pollution	Around construction compounds and the converter station and substation works areas, direct illumination of boundary features would be avoided. Lighting would be designed to comply with published guidelines, specifically, 'Bats and Artificial Lighting in the UK' Guidance Note (GN 08 / 23). The lighting design would be approved by a suitably qualified lighting professional.	Additional	Construction	Application Document 7.5.3 Outline Onshore Construction Environmental Management Plan	DCO Schedule 3, Requirement 6 Onshore Construction Environmental Management Plan
B60	Application Document 7.3 Design Development Report - Appendix A Landfall HDD Feasibility Technical Note	Impacts of potential frac-out	For the Suffolk landfall, National Grid will notify and consult ESC, Natural England (NE) and RSPB of methods, locations, and routes for spotters and, in the unlikely event of a frac out, vehicles, personnel and equipment for remediation; and will take into consideration any comments received in relation to them. Spotters will be on foot except where using existing vehicle access tracks. There will be no vehicle access to shingle habitats. Tracks within the RSPB reserve will only be used by tractor and bowser and 4WD in the emergency case of responding to a frac out –	Control and Management Measure	Construction	Application Document 7.5.3 Outline Onshore Construction Environmental Management Plan	DCO Schedule 3, Requirement 6 Onshore Construction Environmental Management Plan

(1) ID	(2) ES or Standalone Document Reference	(3) Potential Changes and Effects	(4) Mitigation commitment	(5) Mitigation	(6) Project Phase	(7) Securing Document/Plan	(8) Securing Mechanism
			routine access by spotters will be on foot. The existing tracks are sufficient for purposes without any changes. Use of the tracks would be cognisant of the ground conditions and will be discussed and agreed with RSPB at the time of the event.				
B62	Application Document 7.5.3 Outline Onshore Construction Environmental Management Plan	Impacts of trenchless landfall techniques on SSSI	Prior to trenchless landfall techniques commencing, the undertaker will carry out phase 2 botanical surveys and water vole surveys within the area of the proposed cable route to support monitoring and mitigation of any impact of the trenchless technique.	Control and Management Measure	Construction	Application Document 7.5.3 Outline Onshore Construction Environmental Management Plan	DCO Schedule 3, Requirement 6 Onshore Construction Environmental Management Plan
B63	Application Document 7.5.3 Outline Onshore Construction Environmental Management Plan	Impacts on shingle habitats	National Grid will inform Natural England and East Suffolk Council of any proposals to undertake additional ground investigation surveys on or adjacent to shingle habitats.	Control and Management Measure	Construction	Application Document 7.5.3 Outline Onshore Construction Environmental Management Plan	DCO Schedule 3, Requirement 6 Onshore Construction Environmental Management Plan
B73	Application Document 7.5.3 Outline Onshore Construction Environmental Management Plan	Impact on SSSI	Routes and access arrangements for vehicle and pedestrian access to Sandlings SPA and Leiston-Aldeburgh SSSI will be agreed with RSPB.	Additional	Construction	Application Document 7.5.3 Outline Onshore Construction Environmental Management Plan	DCO Schedule 3, Requirement 6 Onshore Construction Environmental Management Plan
B74	Application Document 7.5.3 Outline Onshore Construction Environmental Management Plan	Vegetation loss	Within the North Warren RSPB Reserve vegetation will only be managed when required to re-establish path widths to no more than 1 m (the statutory minimum for a footpath) and will only be managed using hand tools unless otherwise agreed with RSPB.	Additional	Construction	Application Document 7.5.3 Outline Onshore Construction Environmental Management Plan	DCO Schedule 3, Requirement 6 Onshore Construction Environmental Management Plan
B77	Application Document 7.5.3 Outline Onshore Construction	Impact on SSSI	The Applicant will not use impact or vibratory hammer (excluding side grip vibratory) piling at the Suffolk trenchless	Additional	Construction	Application Document 7.5.3 Outline Onshore Construction Environmental Management Plan	DCO Schedule 3, Requirement 6 Onshore

(1) ID	(2) ES or Standalone Document Reference	(3) Potential Changes and Effects	(4) Mitigation commitment	(5) Mitigation	(6) Project Phase	(7) Securing Document/Plan	(8) Securing Mechanism
	Environmental Management Plan		compound and any use of side grip vibratory hammer will be monitored by the Applicant to ensure that a noise level of 60dB Lamax at the boundary of Leiston-Aldeburgh SSSI is not being exceeded.				Construction Environmental Management Plan
B78	Application Document 7.5.7.1 Outline Landscape and Ecological Management Plan - Suffolk	Impacts on ecological receptors	The key ecology survey updates as set out in the Suffolk oLEMP (specifically for schedule 1 birds, bat activity, roosting bats, dormice, and riparian mammals) must be undertaken prior to vegetation clearance in those areas.	Additional	Construction	Application Document 7.5.7.1 Outline Landscape and Ecological Management Plan - Suffolk	DCO Schedule 3, Requirement 6 Landscape and Ecological Management Plan (LEMP) – Suffolk
Cultural Heritage							
H05	Application Document 6.2.2.3 Part 2 Suffolk Chapter 3 Cultural Heritage	Effects on cultural heritage assets	Locations of known archaeological interest/value to be preserved *in situ*, or areas where archaeological work is planned, would be signposted/fenced off to avoid unintentional damage.	Additional	Construction	Application Document 7.5.4.1 Outline Onshore Overarching Written Scheme of Investigation – Suffolk (Draft)	DCO Schedule 3, Requirement 14 Onshore Overarching Written Scheme of Investigation - Suffolk
H06	Application Document 6.2.2.3 Part 2 Suffolk Chapter 3 Cultural Heritage	Effects on cultural heritage assets	Where a previously unknown heritage asset is discovered, or a known heritage asset proves to be more significant than predicted at the time of application for Development Consent, then the Archaeology Advisor for Suffolk County Council and Historic England should be informed and a solution agreed that protects the significance of the new discovery, so far as is practicable, within the Proposed Project parameters.	Additional	Construction	Application Document 7.5.4.1 Outline Onshore Overarching Written Scheme of Investigation – Suffolk	DCO Schedule 3, Requirement 14 Onshore Overarching Written Scheme of Investigation - Suffolk
H07	Application Document 6.2.2.3 Part 2 Suffolk Chapter 3 Cultural Heritage	Effects on cultural heritage assets	Archaeological excavation, recording, and publication to be undertaken where archaeological features cannot be avoided. Scope of works to	Additional	Construction	Application Document 7.5.4.1 Outline Onshore Overarching Written Scheme of Investigation – Suffolk	DCO Schedule 3, Requirement 14 Onshore Overarching

(1) ID	(2) ES or Standalone Document Reference	(3) Potential Changes and Effects	(4) Mitigation commitment	(5) Mitigation	(6) Project Phase	(7) Securing Document/Plan	(8) Securing Mechanism
			be agreed with the Archaeology Advisor for Suffolk County Council, and any other relevant heritage stakeholders, prior to works commencing in the relevant area and detailed in the Suffolk Outline Onshore Overarching Written Scheme of Investigation or a site specific Written Scheme of Investigation.				Written Scheme of Investigation - Suffolk
H08	Application Document 6.2.2.3 Part 2 Suffolk Chapter 3 Cultural Heritage	Effects on cultural heritage assets	Archaeological Strip, Map, and Record, to be undertaken in pre-agreed areas of archaeological potential/features. Scope of works to be agreed with the Archaeology Advisor for Suffolk County Council, and any other relevant heritage stakeholders prior to works in the relevant area commencing and detailed in the Suffolk Outline Onshore Overarching Written Scheme of Investigation or a site specific Written Scheme of Investigation.	Additional	Construction	Application Document 7.5.4.1 Outline Onshore Overarching Written Scheme of Investigation – Suffolk (Draft)	DCO Schedule 3, Requirement 14 Onshore Overarching Written Scheme of Investigation- Suffolk
H09	Application Document 6.2.2.3 Part 2 Suffolk Chapter 3 Cultural Heritage	Effects on cultural heritage assets	Archaeological Watching Brief to be undertaken in pre-agreed areas of archaeological potential/features. Scope of works to be agreed with the Archaeology Advisor for Suffolk County Council, and any other relevant heritage stakeholders prior to works commencing in the relevant area and detailed in the Suffolk Outline Onshore Overarching Written Scheme of Investigation or a site specific Written Scheme of Investigation.	Additional	Construction	Application Document 7.5.4.1 Outline Onshore Overarching Written Scheme of Investigation – Suffolk (Draft)	DCO Schedule 3, Requirement 14 Onshore Overarching Written Scheme of Investigation - Suffolk
H10	Application Document 6.2.2.3 Part 2 Suffolk Chapter 3 Cultural Heritage	Effects on cultural heritage assets	Geoarchaeological modelling/profiling in areas of potential. Scope of works to be agreed with the Archaeology Advisor for Suffolk County Council, and any other relevant heritage stakeholders prior to works commencing and detailed in the Suffolk Outline Onshore Overarching Written Scheme of	Additional	Construction	Application Document 7.5.4.1 Outline Onshore Overarching Written Scheme of Investigation – Suffolk (Draft)	DCO Schedule 3, Requirement 14 Onshore Overarching Written Scheme of Investigation - Suffolk

(1) ID	(2) ES or Standalone Document Reference	(3) Potential Changes and Effects	(4) Mitigation commitment	(5) Mitigation	(6) Project Phase	(7) Securing Document/Plan	(8) Securing Mechanism
			Investigation or a site specific Written Scheme of Investigation.				
Water Environment							
W17	Application Document 6.2.2.4 Part 2 Suffolk Chapter 4 Water Environment	Effects on water environment receptors	In the pre-application stage of the Proposed Project, the scheme was designed with sensitive routeing and siting of infrastructure and temporary works. For example, National Grid has avoided situating the proposed Saxmundham Converter Station and Friston Substation (the most vulnerable components of the Suffolk Onshore Scheme), and the proposed crossing of the River Fromus for access, in areas that are at risk of flooding (Flood Zones 2 and 3) and avoiding areas at high risk of surface water flooding.	Embedded	Construction and Operation	Environmental Statement	Embedded measure that does not require securing mechanism
W19	Application Document 6.2.2.4 Part 2 Suffolk Chapter 4 Water Environment	Effects on water environment receptors	Saxmundham Converter Station and Friston Substation would be served with drainage systems that embed SuDS for attenuation of runoff to green field runoff rates in line with the requests from the receiving watercourse authorities (Water Management Board, Environment Agency or Lead Local Flood Authority) and to provide treatment of runoff. Should the mitigation include discharge to Anglian Water assets, Anglian Water will be consulted in the design of these drainage systems.	Embedded	Operation	Application Document 9.17.1: Suffolk Drainage Strategy	DCO Schedule 3, Requirement 6
W20	Application Document 6.2.2.4 Part 2 Suffolk Chapter 4 Water Environment	Effects on water environment receptors	Construction compounds, haul roads and bellmouths served by SuDS systems would be constructed at the same time as the formation platform of these infrastructure (to reduce the risk of flooding during the construction stage) and would include pollution controls to	Embedded	Construction	Application Document 7.5.3 Outline Onshore Construction Environmental Management Plan	DCO Schedule 3, Requirement 6 Onshore Construction Environmental Management Plan

(1) ID	(2) ES or Standalone Document Reference	(3) Potential Changes and Effects	(4) Mitigation commitment	(5) Mitigation	(6) Project Phase	(7) Securing Document/Plan	(8) Securing Mechanism
			address the possibility of runoff contamination with oils and silts. Installation of filter drains/swales/header drains along the perimeter of construction compounds/parallel to haul roads to intercept 'clean' runoff from the adjacent land. These SuDS would be maintained in accordance with a SuDS maintenance schedule to ensure continued good function throughout the construction period.				
W26	Application Document 7.5.3 Outline Onshore Construction Environmental Management Plan	Deterioration in surface water quality.	Where construction works are undertaken in proximity to the Hundred River and the River Fromus, which are of high sensitivity to water quality changes, regular visual monitoring for signs of water pollution would be undertaken by the Environmental Clerk of Works. Monthly monitoring will be undertaken in the year prior to construction commencing, so an up-to-date water quality baseline is established. Monitoring will then be undertaken fortnightly during construction and after heavy rainfall events. Locations to be monitored are immediately upstream and downstream of any proposed surface water outfalls or water crossings. The primary method will be via in-situ handheld devices operated by the EnvCoW, with samples sent off to laboratories of potential pollution is detected. If pollution is confirmed, appropriate mitigation measures should be implemented to prevent further deterioration. Monthly post-construction monitoring will be undertaken for 6 months.	Control and Management Measure	Construction	Application Document 7.5.3 Outline Onshore Construction Environmental Management Plan	DCO Schedule 3, Requirement 6 Onshore Construction Environmental Management Plan

(1) ID	(2) ES or Standalone Document Reference	(3) Potential Changes and Effects	(4) Mitigation commitment	(5) Mitigation	(6) Project Phase	(7) Securing Document/Plan	(8) Securing Mechanism
W38	Application Document 7.5.3 Outline Onshore Construction Environmental Management Plan	Increased likelihood of flooding	To remove any future risk of the proposed permanent bridge over the River Fromus becoming inaccessible in future scenarios, the western approach road would be raised in the order of 100mm to provide added flood resilience, in accordance with the details provided in 6.8 (B) Flood Risk Assessment [REP6-052].	Embedded	Construction and Operation	Application Document 7.5.3 Outline Onshore Construction Environmental Management Plan	DCO Schedule 3, Requirement 6 Onshore Construction Environmental Management Plan
Geology and Hydrogeology							
GH14	Application Document 7.5.3 Outline Onshore Construction Environmental Management Plan	Impact on geological feature	Trenchless landfall techniques at Suffolk will exit a minimum of 45 m east of the continual Coralline Crag outcrop.	Embedded	Construction and Operation	Application Document 7.5.3 Outline Onshore Construction Environmental Management Plan	DCO Schedule 3, Requirement 6 Onshore Construction Environmental Management Plan
GH15	Application Document 7.5.3 Outline Onshore Construction Environmental Management Plan	Impact on groundwater	The depth of the trenchless crossing at the Suffolk landfall will be limited to within the Crag, Coralline Crag and London Clay strata. The trenchless landfall crossing in Suffolk will not penetrate the underlying chalk aquifer.	Additional	Construction and Operation	Application Document 7.5.3 Outline Onshore Construction Environmental Management Plan	DCO Schedule 3, Requirement 6 Onshore Construction Environmental Management Plan
Agriculture and Soils							
No specific mitigation measures relevant to Suffolk identified.							
Traffic and Transport							
TT04	Application Document 6.2.2.7 Part 2 Suffolk Chapter 7 Traffic and Transport Application Document 6.3.1.4.A Appendix 1.4.A Crossings Schedules	Impact on PRoW	During the pre-application stage infrastructure and temporary works have been sensitively routed and sited including to minimise the requirement to close/divert PRoW. Where possible, this will be further minimised during the detailed design process through the PRoW Management Plan-Suffolk.	Embedded	Construction and Operation	Application Document 7.5.9.1 Outline Public Rights of Way Management Plan – Suffolk	DCO Schedule 3, Requirement 6 Public Rights of Way (PRoW) Management Plan – Suffolk

(1) ID	(2) ES or Standalone Document Reference	(3) Potential Changes and Effects	(4) Mitigation commitment	(5) Mitigation	(6) Project Phase	(7) Securing Document/Plan	(8) Securing Mechanism
TT06	Application Document 6.2.2.7 Part 2 Suffolk Chapter 7 Traffic and Transport	Impact on the highway network	Potential carriageway widening works, vegetation clearance and street furniture removal will be undertaken at the locations identified within the Outline CTMTP for Suffolk to accommodate construction vehicles (including Abnormal Indivisible Loads).	Embedded	Construction	Application Document 7.5.1.1 Outline Construction Traffic Management and Travel Plan – Suffolk	DCO Schedule 3, Requirement 6 Construction Traffic Management and Travel Plan – Suffolk
TT11	Application Document 9.76.5 Change Request Addendum to Volume 6 Environmental Statement	Restricted local access	During any closure of Benhall Railway Bridge a shuttle/taxi service will be made available as embedded mitigation, so that residents who do not have access to a vehicle can continue to travel between Whitearch Park Residential Park Homes and nearby areas (e.g. Benhall and Saxmundham when the proposed temporary footway/footpath closures are in place on Benhall Bridge).	Control and Management Measure	Construction	Application Document 7.5.1.1 Outline Construction Traffic Management and Travel Plan – Suffolk	DCO Schedule 3, Requirement 6 Construction Traffic Management and Travel Plan – Suffolk
TT14	Application Document 7.5.3 Outline Onshore Construction Environmental Management Plan	Impact on RSPB reserve	In the unlikely event that more than one parking bay in Thorpe Road car park is likely to be required for the trenchless construction, the RSPB will be consulted regarding implications on visitor parking.	Additional	Construction	Application Document 7.5.3 Outline Onshore Construction Environmental Management Plan	DCO Schedule 3, Requirement 6 Onshore Construction Environmental Management Plan (CEMP)
Air Quality							
No specific mitigation measures relevant to Suffolk identified.							
Noise and Vibration							
NV08	Application Document 6.2.2.10 Part 3 Suffolk Chapter 10 Noise and Vibration	Impacts on noise sensitive receptors	Application of site-specific BPM (e.g. screening) to reduce levels of noise and vibration from potentially significant construction activities.	Additional	Construction	Application Document 7.5.8.1 Outline Construction Noise and Vibration Management Plan – Suffolk	DCO Schedule 3, Requirement 6 Construction Noise and Vibration Management Plan (NVMP) – Suffolk
Socio-economics, Recreation and Tourism							

(1) ID	(2) ES or Standalone Document Reference	(3) Potential Changes and Effects	(4) Mitigation commitment	(5) Mitigation	(6) Project Phase	(7) Securing Document/Plan	(8) Securing Mechanism
SE05	Application Document 7.5.3 Outline Onshore Construction Environmental Management Plan	Impact on tourist accommodation availability	For works in Suffolk, the Applicant will establish a process to monitor where workers are staying by type of accommodation and location on a quarterly basis and agree how this information will be provided to East Suffolk Council (ESC). Should these results indicate that during a monitoring period on average greater than 18 workers are utilising accommodation that would otherwise be utilised by tourists in the Suffolk Coastal area, then the Applicant will discuss potential actions with ESC, Local Destination Management Organisation ("DMO") and the Local Visitor Economy Partnership ("LVEP") to agree what steps will be taken to encourage more workers to stay in accommodation less commonly used by tourists to the coast. This could include discussions with other developers in the Suffolk area about shared use of specialist accommodation or encouraging use of accommodation in a larger settlement such as Ipswich or surrounding areas with financial incentives and/ or transport from Ipswich to work locations. The Applicant recognises seasonal variations and that in the cooler months outside holiday periods it may beneficial to the economy for accommodation to be occupied by workers because this accommodation would not be occupied by tourists. This will be taken into account when determining whether steps should be taken to encourage workers to stay outside the area	Additional	Construction	Application Document 7.5.3 Outline Onshore Construction Environmental Management Plan	DCO Schedule 3, Requirement 6 Onshore Construction Environmental Management Plan (CEMP)

(1) ID	(2) ES or Standalone Document Reference	(3) Potential Changes and Effects	(4) Mitigation commitment	(5) Mitigation	(6) Project Phase	(7) Securing Document/Plan	(8) Securing Mechanism
			in consultation with ESC, DMO and LVEP. Accommodation in the Suffolk Coastal areas that would otherwise be utilised by tourists in the context of this requirement relates to hotel and b&b accommodation that would otherwise be used by tourists within 15 km of Aldeburgh, although the area covered can change if agreed between the Applicant and ESC. The Applicant will also discuss with contractors whether accommodation will be booked direct with the provider rather than via third party websites to avoid dynamic pricing.				
Health and Wellbeing							
No specific mitigation measures relevant to Suffolk identified.							
Arboriculture							
A07	Application Document 6.10 Arboricultural Impact Assessment	Negative impacts to a high quality tree (T876S) from the construction of a permanent attenuation outfall pipe.	The final alignment of the permanent attenuation outfall pipe willLV14 avoid the area of constraint associated with T876S.	Embedded	Construction	Arboricultural Method Statement	DCO Schedule 3, Requirement 8 Retention and protection of existing trees and hedgerows
A08	Application Document 6.10 Arboricultural Impact Assessment	Negative impacts or removal of a high quality tree (T821S) to facilitate the installation of the high voltage cable.	The final alignment of the high voltage cable will avoid the area of constraint associated with T821S.	Embedded	Construction	Arboricultural Method Statement	DCO Schedule 3, Requirement 8 Retention and protection of existing trees and hedgerows
A09	Application Document 6.10 Arboricultural Impact Assessment	Negative impacts or removal of T821S (high quality tree) and	The final alignment of a temporary clean water drain will avoid the areas of constraint	Embedded	Construction	Arboricultural Method Statement	DCO Schedule 3, Requirement

(1) ID	(2) ES or Standalone Document Reference	(3) Potential Changes and Effects	(4) Mitigation commitment	(5) Mitigation	(6) Project Phase	(7) Securing Document/Plan	(8) Securing Mechanism
		T822S (veteran tree) to facilitate the installation of a temporary clean water drain.	associated with T821S and T822S (veteran tree).				8 Retention and protection of existing trees and hedgerows
A10	Application Document 6.10 Arboricultural Impact Assessment	Negative impacts or removal of T522S and T525S two veteran trees to facilitate the installation of the permanent access road for Friston Substation.	The final alignment of the permanent access road for Friston Substation will avoid the areas of constraint associated with T522S and T525S two veteran trees.	Embedded	Construction	Arboricultural Method Statement	DCO Schedule 3, Requirement 8 Retention and protection of existing trees and hedgerows
A12	Application Document 6.10 Arboricultural Impact Assessment	Negative impacts to the structure of the soil within the RPA of T45S (veteran tree) to facilitate construction access.	Fit for purpose ground protection specified to the highest expected load in accordance with Application Document 6.10 Arboricultural Impact Assessment will be utilised within the RPA of T45S (veteran tree) to avoid negatively impacting the soil structure.	Embedded	Construction	Arboricultural Method Statement	DCO Schedule 3, Requirement 8 Retention and protection of existing trees and hedgerows
A13	Application Document 6.10 Arboricultural Impact Assessment	Negative impacts to the structure of the soil within the RPAs of T938S and T940S (veteran trees)	Access routes will be positioned as far from the tree stems of T938S and T940S (veteran trees) as possible and any incursion within the RPA will be managed with fit for purpose ground protection to the highest expected load in accordance with Application Document 6.10 Arboricultural Impact Assessment to avoid negatively impacting the soil structure.	Embedded	Construction	Arboricultural Method Statement	DCO Schedule 3, Requirement 8 Retention and protection of existing trees and hedgerows
A14	Application Document 6.10 Arboricultural Impact Assessment	Negative impacts to the structure of the soil within the RPAs of T103S and T107S (veteran trees) to facilitate infrequent pedestrian and all-terrain vehicle access.	Access within the RPAs of T103S and T107S (veteran trees) will be achieved by pedestrian only access. Alternatively where all-terrain vehicle access is required, fit for purpose ground protection specified to the highest expected load in accordance with Application Document 6.10 Arboricultural Impact	Embedded	Construction	Arboricultural Method Statement	DCO Schedule 3, Requirement 8 Retention and protection of existing trees and hedgerows

(1) ID	(2) ES or Standalone Document Reference	(3) Potential Changes and Effects	(4) Mitigation commitment	(5) Mitigation	(6) Project Phase	(7) Securing Document/Plan	(8) Securing Mechanism
			Assessment will be utilised to avoid negatively impacting soil structure.				
A15	Application Document 6.10 Arboricultural Impact Assessment	Negative impacts or removal of T876S (category A tree) to facilitate the installation of a permanent attenuation outfall pipe.	The final alignment of the permanent attenuation outfall pipe will be positioned to avoid the RPA of T876S (category A tree).	Embedded	Construction	Arboricultural Method Statement	DCO Schedule 3, Requirement 8 Retention and protection of existing trees and hedgerows
A16	Application Document 6.10 Arboricultural Impact Assessment	Negative impacts or removal of T821S (category A tree) and T822S (veteran tree) to facilitate the installation of a temporary clean water drain.	The final alignment of the temporary clean water drain will be positioned to avoid the RPA of T821S (category A tree) and T822S (veteran tree)	Embedded	Construction	Arboricultural Method Statement	DCO Schedule 3, Requirement 8 Retention and protection of existing trees and hedgerows
A17	Application Document 6.10 Arboricultural Impact Assessment	Negative impacts or removal of third party trees to the west of Leiston Road which includes category A and B trees T147S, T148S, T152S, T1150S, T1151S, T1152S, T1154S, T1155S, T1156S, T1157S, T1158S, T1159S and T1160S.	At the detailed design the final alignment and installation method of the cable will be determined which will allow for the retention of all third-party trees with any potential impacts minimised or avoided.	Embedded	Construction	Arboricultural Method Statement	DCO Schedule 3, Requirement 8 Retention and protection of existing trees and hedgerows
A19	Application Document 9.76.5 Change Request Addendum to Volume 6 Environmental Statement	Loss of moderate and high quality tree features.	The final alignment of the cable and haul road will be positioned to avoid all moderate and high quality tree features within the Order Limits, including the identified veteran tree (T1227). These will be fully retained and protected in accordance with the tree protection fencing shown on Sheet 5 of **Application Document 9.76.5.9 Change Request Appendix I Tree**	Embedded	Construction	Application Document 7.5.3 Outline Onshore Construction Environmental Management Plan	DCO Schedule 3, Requirement 6 Code of Construction Practice DCO Schedule 3, Requirement 8 Retention

(1) ID	(2) ES or Standalone Document Reference	(3) Potential Changes and Effects	(4) Mitigation commitment	(5) Mitigation	(6) Project Phase	(7) Securing Document/Plan	(8) Securing Mechanism
			Protection Plans Suffolk Onshore Scheme.				and protection of existing trees and hedgerows.
A20	Application Document 9.76.5 Change Request Addendum to Volume 6 Environmental Statement	Impacts to retained trees within W708S from proposed hedgerow planting.	All hedgerow planting within the area of constraint associated with W708S will be undertaken carefully, by hand with new hedgerow plants sited to avoid important tree roots. All access to facilitate hedgerow planting within the area of constraint associated with retained trees will be achieved in accordance with **Application Document 6.10 Arboricultural Impact Assessment.**	Embedded	Construction	Arboricultural Method Statement	DCO Schedule 3, Requirement 8 Retention and protection of existing trees and hedgerows

Table 3.3 Register of Environmental Actions and Commitments – Kent Onshore Scheme

(1) ID	(2) ES or Standalone Document Reference	(3) Potential Changes and Effects	(4) Measure Proposed	(5) Mitigation	(6) Project Phase	(7) Securing Document/Plan	(8) Securing Mechanism
GG35	Application Document 6.2.3.2 Part 3 Kent Chapter 2 Ecology & Biodiversity	Loss of habitat within Sandwich Bay to Hacklinge Marshes SSSI, Thanet Coast & Sandwich Bay SPA/Ramsar and Sandwich Bay SAC	The installation method for the Kent Landfall is a trenchless technique to minimise the loss of habitat within Sandwich Bay to Hacklinge Marshes SSSI, Thanet Coast & Sandwich Bay SPA/Ramsar and Sandwich Bay SAC and avoid any loss of saltmarsh.	Embedded	Construction	Application Document 7.5.3 Outline Onshore Construction Environmental Management Plan	DCO Schedule 3, Requirement 6 Onshore Construction Environmental Management Plan
GG36	Application Document 6.2.1.4 Part 1 Introduction Chapter 4 Description of the Proposed Project Application Document 6.2.3.1 Part 3 Kent Chapter 1 Landscape and Visual	Environmental impacts from the operation of Minster Substation	Minster Substation described in Work No. 11 should be designed to be in general accordance with the Key Design Principles set out in Table 3.1 of the Design Principles – Kent (Application document 7.12.2).	Embedded	Operation	Application Document 7.12.2 Design Principles - Kent	DCO Schedule 3, Requirement 3
GG45	Application Document 7.5.3 Outline Onshore Construction Environmental Management Plan	Impacts from hovercraft use	Hovercraft at Pegwell Bay will be on standby and used for emergencies only. It will not be used at any other time during any stage of the Project's construction, operation, maintenance or decommissioning. The applicant will report all instances of emergency hovercraft use to Natural England and Thanet District Council within 24 hours. The definition for 'emergency' in relation to the use of hovercraft is: 'a time-critical intervention in a serious and unexpected accident, event or situation which threatens damage sufficient to cause danger to persons or property'..	Additional	Construction	Application Document 7.5.3 Outline Onshore Construction Environmental Management Plan	DCO Schedule 3, Requirement 6 Onshore Construction Environmental Management Plan
Landscape and Visual							
LV04	Application Document 6.2.3.1 Part 3 Kent Chapter 1 Landscape and Visual	Impacts on landscape and views from failure of reinstatement and mitigation planting	A five-year aftercare period will be established for all reinstatement and mitigation planting along the HVDC cable corridor. All planting associated with the Minster Converter Station and Substation will be managed and maintained for the lifetime of the asset.	Control and Management Measure	Construction	Application Document 7.5.7.2 Outline Landscape and Ecological Management Plan – Kent	DCO Schedule 3, Requirement 6 Landscape and Ecological Management Plan (LEMP) – Kent
LV15	Application Document 6.2.3.1 Part 3 Kent	Impacts on landscape and visual receptors	During the pre-application stage the project was designed so that the converter station and substation are located as close to the existing	Embedded	Construction and Operation	Environmental Statement	Embedded measure that does not require securing mechanism

(1) ID	(2) ES or Standalone Document Reference	(3) Potential Changes and Effects	(4) Measure Proposed	(5) Mitigation	(6) Project Phase	(7) Securing Document/Plan	(8) Securing Mechanism
	Chapter 1 Landscape and Visual	from the Minster Converter Station and Minster Substation	infrastructure at Richborough Energy Park and deigned to limit the incursion into the wider marsh landscape, to improve landscape fit and minimise visual impact.				
LV16	Application Document 6.2.3.1 Part 3 Kent Chapter 1 Landscape and Visual	Impacts on landscape and visual receptors from the Minster Converter Station and Minster Substation	During the pre-application stage the converter station and substation was designed to minimise the impact on existing landscape features (drainage ditches and SSSI woodland).	Embedded	Construction and Operation	Environmental Statement	Embedded measure that does not require securing mechanism
LV17	Application Document 6.2.3.1 Part 3 Kent Chapter 1 Landscape and Visual	Impacts on landscape and visual receptors from the Minster Converter Station and Minster Substation	During the pre-application stage the converter station buildings have been located and designed to be sympathetic to their surroundings and be integrated into the landscaped setting of the site where possible. Buildings will be clad in appropriate material and colours designed to appear recessive within the landscape, to help integrate the buildings into the landscape and views where possible.	Embedded and Management Measure	Construction and Operation	Application Document 7.12.2 Design Principles – Kent (Table 3.1)	DCO Schedule 3 Requirement 3 Detailed Design
LV18	Application Document 6.2.3.1 Part 3 Kent Chapter 1 Landscape and Visual	Impacts on landscape and visual receptors from the Minster Converter Station and Minster Substation	Implementation of the outline landscape strategy for the Minster Converter Station and Substation in line with the following principles: • Respond to both the immediate landscape pattern of the site as well as the wider landscape character. • Use native woodland planting to provide screening to the converter station and substation in views from the north and northwest whilst providing containment to the converter station and substation site so that it appears visually connected to the Richborough Energy Park rather than the wider marsh landscape. • Reinforce the pattern of drainage ditches with appropriate marginal planting and establishing a sensitive interface with the wider marsh landscape. • Provide connectivity with wider blue and green infrastructure networks. • Protect existing vegetation wherever possible. • Consider opportunities for advanced planting to provide early establishment of woodland planting.	Embedded	Operation	Application Document 7.5.7.2 Outline Landscape and Ecological Management Plan – Kent Application Document 7.5.7.2.1 Minster Converter Station and Substation Outline Landscape Mitigation within Application Document 7.5.7.2 Outline Landscape and Ecological Management Plan – Kent	DCO Schedule 3, Requirement 6 Landscape and Ecological Management Plan (LEMP) – Kent

(1) ID	(2) ES or Standalone Document Reference	(3) Potential Changes and Effects	(4) Measure Proposed	(5) Mitigation	(6) Project Phase	(7) Securing Document/Plan	(8) Securing Mechanism
			• Provide an integrated drainage solution with attenuation ponds and swales, planted with marginal wetland species set within a wider context of marshland and native scrub planting to improve the biodiversity value within the site. • Monitoring and maintenance of new planting and seeding to ensure successful establishment.				
Ecology and Biodiversity							
B41	Application Document 6.2.3.2 Part 3 Kent Chapter 2 Ecology and Biodiversity	Loss of woodland, grassland and pond habitat	Creation of 6.5 ha of woodland, 5 ha species rich neutral grassland, 1km native hedgerow, 2ha of balancing pond, and swales along the permanent access road. The final habitat creation proposals will be developed through the final Landscape and Ecological Management Plan so may deviate from areas/ habitats presented here.	Embedded	Operation	Application Document 7.5.7.2 Outline Landscape and Ecological Management Plan – Kent	DCO Schedule 3, Requirement 6 Landscape and Ecological Management Plan (LEMP) – Kent
B43	Application Document 6.2.3.2 Part 3 Kent Chapter 2 Ecology and Biodiversity	Impacts to ecological receptors from having to retrieve drilling equipment	Measures will be adopted to avoid the trenchless drilling equipment getting stuck at the Kent landfall. No excavation will be undertaken to remove stuck drilling equipment except within 40 m of the entry or exit point, where the drill is at shallow depth (>5 m), and outside any areas of saltmarsh.	Embedded	Construction	Application Document 7.5.3 Outline Onshore Construction Environmental Management Plan)	DCO Schedule 3, Requirement 6 Onshore Construction Environmental Management Plan
B44	Application Document 6.2.3.2 Part 3 Kent Chapter 2 Ecology and Biodiversity	Disturbance to noise sensitive receptors	Noise fencing or similar effective noise reduction methods will be implemented around works areas where required to avoid significant disturbance on noise sensitive receptors, particularly the Sandwich Bay to Hacklinge Marshes SSSI and birds. Noise monitoring would be included adjacent to the Sandwich Bay and Hacklinge Marshes SSSI to confirm the mitigation measures met the required noise thresholds.	Embedded	Construction	Application Document 7.5.3 Outline Onshore Construction Environmental Management Plan	DCO Schedule 3, Requirement 6 Onshore Construction Environmental Management Plan
B45	Application Document 6.2.3.2 Part 3 Kent Chapter 2 Ecology and Biodiversity	Impacts on breeding birds from the installation of overhead line pylons	Installation of overhead line pylons either side of Sandwich Bay to Hacklinge Marshes SSSI will not cover the entire breeding season (March to September included) but will either take place outside the bird breeding season or will only occupy approximately two months of the breeding season unless otherwise agreed with Natural England. Any works causing noise levels above 60dB Lamax at the boundary of the SSSI, will take place outside the period from March to August. Where such works are to be undertaken during September, an Ecological Clerk of Works and/or a	Embedded	Construction	Application Document 7.5.3 Outline Onshore Construction Environmental Management Plan	DCO Schedule 3, Requirement 6 Onshore Construction Environmental Management Plan

(1) ID	(2) ES or Standalone Document Reference	(3) Potential Changes and Effects	(4) Measure Proposed	(5) Mitigation	(6) Project Phase	(7) Securing Document/Plan	(8) Securing Mechanism
			suitably qualified ornithologist will check the area of SSSI within which the activities are forecast to be subject to noise levels above 60dBLAmax to confirm the absence of qualifying nesting bird features of the SSSI. The relevant works will only occur if no active nests of SSSI qualifying birds are identified.				
B46	Application Document 6.2.3.2 Part 3 Kent Chapter 2 Ecology and Biodiversity	Impact on water voles	It is assumed that water voles could be present on any ditch section to be traversed and a watching brief will therefore be introduced during any vegetation clearance in these ditches. Displacement of water voles if any are encountered would be undertaken under the supervision of a licensed ecologist under Class Licence CL31. This would restrict clearance of any locations where water voles are present to either 15 February to 15 April or 15 September to 31 October. Vegetation clearance will only be undertaken following an updated water vole survey.	Embedded	Construction	Application Document 7.5.3 Outline Onshore Construction Environmental Management Plan	DCO Schedule 3, Requirement 6 Onshore Construction Environmental Management Plan
B47	Application Document 6.2.3.2 Part 3 Kent Chapter 2 Ecology and Biodiversity	Impact on ecological receptors from clearance of sections of ditch	In order to avoid the nesting bird season and the water vole active season, vegetation clearance of sections of ditch will need to take place during 15th September to 31st October (this being one of the two legally permissible windows for excluding water voles by displacement). Vegetation clearance will only be undertaken following an updated water vole survey. However, if pre-construction surveys undertaken immediately prior to the clearance works taking place confirm the absence of nesting birds, vegetation removal may also occur between 15 February to 15 April (this being the other legally permissible window for excluding water voles by displacement), provided that pre-construction surveys have been undertaken by a suitably qualified ecologist to ensure there is no suitable habitat for hibernating reptiles. If pre-construction surveys identify no water vole burrows or nesting birds are present within the area to be cleared, then vegetation clearance could also take place outside these windows. The actual culverts will then be installed at the appropriate time as the haul road progresses across the site.	Embedded	Construction	Application Document 7.5.3 Outline Onshore Construction Environmental Management Plan	DCO Schedule 3, Requirement 6 Onshore Construction Environmental Management Plan
B48	Application Document 6.2.3.2 Part 3 Kent Chapter 2 Ecology and Biodiversity	Disturbance to Cetti's warbler nesting	A 20 m buffer will be implemented during construction around any Cetti's warbler nests that do establish within the construction area in each nesting season. A specific decision will then be	Embedded	Construction	Application Document 7.5.3 Outline Onshore Construction Environmental Management Plan	DCO Schedule 3, Requirement 6 Onshore Construction Environmental Management Plan

(1) ID	(2) ES or Standalone Document Reference	(3) Potential Changes and Effects	(4) Measure Proposed	(5) Mitigation	(6) Project Phase	(7) Securing Document/Plan	(8) Securing Mechanism
			undertaken in discussion with a suitably qualified ecologist over the construction activities that can take place in that area while the nest is active. In addition, there will be continued monitoring for Cetti warbler throughout out the nesting season (March to August) by experienced ecologists. If singing males are present the site manager will be notified and steps taken to introduce construction works in the area prior to a nest being established.				
B49	Application Document 6.2.3.2 Part 3 Kent Chapter 2 Ecology and Biodiversity	Disturbance to badgers	There will be no lighting within 40m of any active badger setts or any significant sources of noise that would affect active badger setts during construction.	Embedded	Construction	Application Document 7.5.3 Outline Onshore Construction Environmental Management Plan	DCO Schedule 3, Requirement 6 Onshore Construction Environmental Management Plan
B50	Application Document 6.2.3.2 Part 3 Kent Chapter 2 Ecology and Biodiversity	Disturbance to breeding birds	Any activities relating to construction of the Minster Converter Station and Substation, that are calculated, following detailed design, to be above 60dB LAmax at the boundary of the SSSI, are to be undertaken outside the period March to June. If such works are to be undertaken during July to September, a suitably qualified ornithologist will check the area of SSSI within which the activities are forecast to be subject to noise levels above 60dBLAmax to confirm the absence of qualifying nesting bird features of the SSSI. The relevant works will only occur if no active nests of SSSI qualifying birds are identified.	Additional	Construction	Application Document 7.5.3 Outline Onshore Construction Environmental Management Plan	DCO Schedule 3, Requirement 6 Onshore Construction Environmental Management Plan
B51	Application Document 6.2.3.2 Part 3 Kent Chapter 2 Ecology and Biodiversity	Impact on wintering birds	The overhead line pylon base installation will be programmed to avoid the core wintering bird period of November to February.	Additional	Construction	Application Document 7.5.3 Outline Onshore Construction Environmental Management Plan	DCO Schedule 3, Requirement 6 Onshore Construction Environmental Management Plan
B52	Application Document 6.2.3.2 Part 3 Kent Chapter 2 Ecology and Biodiversity Application Document 6.9 Water Framework Directive	Loss of riparian habitat	It is proposed to deliver a series of small shallow riverside scrapes with riparian planting, and some alder and willow planting, along the River Stour within the Order Limits before the end of the Proposed Project's construction. This will increase the ecological value of what is currently (north of the River Stour) a predominantly arable landscape. In addition, there will be localised introduction of Azolla weevil to control invasive Azolla fern in Ash Levels and South Richborough Local Wildlife Site.	Additional	Operation	Application Document 7.5.7.2 Outline Landscape and Ecological Management Plan – Kent	DCO Schedule 3, Requirement 6 Landscape and Ecological Management Plan (LEMP) – Kent
B53	Application Document 6.2.3.2 Part 3 Kent Chapter 2 Ecology and Biodiversity	Impacts to hedgerows	Larger gaps in hedgerows or woodland belts would be reduced to a maximum of 10 m during the night by hurdles or similar. These temporary structures would be retained until replanted vegetation matures or replaced by 'dead hedging' using cut woody material retained from hedgerow gap	Additional	Construction	Application Document 7.5.3 Outline Onshore Construction Environmental Management Plan	DCO Schedule 3, Requirement 6 Onshore Construction Environmental Management Plan

(1) ID	(2) ES or Standalone Document Reference	(3) Potential Changes and Effects	(4) Measure Proposed	(5) Mitigation	(6) Project Phase	(7) Securing Document/Plan	(8) Securing Mechanism
			creation. Where practicable, the gap will be reduced to less than 10 m. Around construction compounds, direct illumination of boundary features will be avoided. Lighting will be designed to comply with published guidelines, specifically, 'Bats and Artificial Lighting in the UK' Guidance Note (GN 08 / 23). The lighting design would be approved by a suitably qualified lighting professional.				
B56	Application Document 6.2.3.2 Part 3 Kent Chapter 2 Ecology and Biodiversity	Loss of macroinvertebrate and macrophyte communities	Macroinvertebrate and macrophyte communities will be translocated from the ditch to be lost to the Minster Converter Station, into nearby watercourses (where this would not impede flow in the channel) or the balancing/attenuation ponds, in advance of infill.	Additional	Construction	Application Document 7.5.3 Outline Onshore Construction Environmental Management Plan	DCO Schedule 3, Requirement 6 Onshore Construction Environmental Management Plan
B57	Application Document 6.2.3.2 Part 3 Kent Chapter 2 Ecology and Biodiversity	Disturbance to bats	There will be no lighting directed towards any of the four trees with bat roost potential identified in the surveys for the Kent Onshore Scheme.	Embedded	Construction	Application Document 7.5.3 Outline Onshore Construction Environmental Management Plan	DCO Schedule 3, Requirement 6 Onshore Construction Environmental Management Plan
B61	Application Document 7.5.3 Outline Onshore Construction Environmental Management Plan	Impacts on saltmarsh vegetation	If pumps are used to flush saltmarsh vegetation in the event of a frac-out they will be hand held only and operated at low pressure	Control and management measures	Construction	Application Document 7.5.3 Outline Onshore Construction Environmental Management Plan	DCO Schedule 3, Requirement 6 Onshore Construction Environmental Management Plan
B79	Application Document 7.5.7.2 Outline Landscape and Ecological Management Plan – Kent	Impact on golden plover	Detailed management and monitoring prescriptions for the golden plover enhancement area to be agreed with Natural England and Dover District Council prior to commencement of converter station works.	Additional	Construction	Application Document 7.5.7.2 Landscape and Ecological Management Plan – Kent	DCO Schedule 3, Requirement 6 Landscape and Ecological Management Plan (LEMP) – Kent
Cultural Heritage							
H11	Application Document 6.2.3.3 Part 3 Kent Chapter 3 Cultural Heritage	Effects on cultural heritage assets	Locations of known archaeological interest/value to be preserved *in situ*, or areas where archaeological work is planned, would be signposted/fenced off to avoid unintentional damage.	Additional	Construction	Application Document 7.5.4.2 Outline Onshore Overarching Written Scheme of Investigation – Kent (Draft)	DCO Schedule 3, Requirement 14 Archaeology
H12	Application Document 6.2.3.3 Part 3 Kent Chapter 3 Cultural Heritage	Effects on cultural heritage assets	Where a previously unknown heritage asset is discovered, or a known heritage asset proves to be more significant than predicted at the time of application for Development Consent, then the Archaeology Advisor for Kent County Council should be informed and a solution agreed that protects the significance of the new discovery, so far as is practicable, within the Proposed Project parameters	Additional	Construction	Application Document 7.5.4.2 Outline Onshore Overarching Written Scheme of Investigation – Kent (Draft)	DCO Schedule 3, Requirement 14 Archaeology

(1) ID	(2) ES or Standalone Document Reference	(3) Potential Changes and Effects	(4) Measure Proposed	(5) Mitigation	(6) Project Phase	(7) Securing Document/Plan	(8) Securing Mechanism
H13	Application Document 6.2.3.3 Part 3 Kent Chapter 3 Cultural Heritage	Effects on cultural heritage assets	Archaeological excavation, recording, and publication to be undertaken where archaeological features cannot be avoided. Scope of works to be agreed with the Archaeology Advisor for Kent County Council, and any other relevant heritage stakeholders, prior to works commencing in the relevant area and detailed in the Kent Outline Onshore Overarching Written Scheme of Investigation or a site specific Written Scheme of Investigation.	Additional	Construction	Application Document 7.5.4.2 Outline Onshore Overarching Written Scheme of Investigation – Kent (Draft)	DCO Schedule 3, Requirement 14 Archaeology
H14	Application Document 6.2.3.3 Part 3 Kent Chapter 3 Cultural Heritage	Effects on cultural heritage assets	Archaeological Strip, Map, and Record, to be undertaken in pre-agreed areas of archaeological potential/features. Scope of works to be agreed with the Archaeology Advisor for Kent County Council, and any other relevant heritage stakeholders prior to works in the relevant area commencing and detailed in the Kent Outline Onshore Overarching Written Scheme of Investigation or a site specific Written Scheme of Investigation.	Additional	Construction	Application Document 7.5.4.2 Outline Onshore Overarching Written Scheme of Investigation – Kent (Draft)	DCO Schedule 3, Requirement 14 Archaeology
H15	Application Document 6.2.3.3 Part 3 Kent Chapter 3 Cultural Heritage	Effects on cultural heritage assets	Archaeological Watching Brief to be undertaken in pre-agreed areas of archaeological potential/features. Scope of works to be agreed with the Archaeology Advisor for Kent County Council, and any other relevant heritage stakeholders prior to works commencing in the relevant area and detailed in the Kent Outline Onshore Overarching Written Scheme of Investigation or a site specific Written Scheme of Investigation.	Additional	Construction	Application Document 7.5.4.2 Outline Onshore Overarching Written Scheme of Investigation – Kent (Draft)	DCO Schedule 3, Requirement 14 Archaeology
H16	Application Document 6.2.3.3 Part 3 Kent Chapter 3 Cultural Heritage	Effects on cultural heritage assets	Geoarchaeological modelling/profiling in areas of potential. Scope of works to be agreed with the Archaeology Advisor for Kent County Council, and any other relevant heritage stakeholders prior to works commencing and detailed in the Kent Outline Onshore Overarching Written Scheme of Investigation or a site specific Written Scheme of Investigation.	Additional	Construction	Application Document 7.5.4.2 Outline Onshore Overarching Written Scheme of Investigation – Kent (Draft)	DCO Schedule 3, Requirement 14 Archaeology
Water Environment							
W21	Application Document 6.2.3.4 Part 3 Kent Chapter 4 Water Environment	Effects on water environment receptors	During the pre-application stage of the Proposed Project, infrastructure and temporary works have been sensitively routed and sited e.g. avoiding situating the Minster Substation and Converter Station (the most vulnerable permanent components of the Kent Onshore Scheme) in areas that are at risk of flooding from rivers and the	Embedded	Construction and Operation	Environmental Statement	Embedded – no securing mechanism required

(1) ID	(2) ES or Standalone Document Reference	(3) Potential Changes and Effects	(4) Measure Proposed	(5) Mitigation	(6) Project Phase	(7) Securing Document/Plan	(8) Securing Mechanism
			sea (Flood Zones 2 and 3) and avoiding areas at high risk of surface water flooding.				
W23	Application Document 6.2.3.4 Part 3 Kent Chapter 4 Water Environment	Effects on water environment receptors	Minster Converter Station and Substation would be served with drainage systems that embed SuDS for attenuation of runoff to green field runoff rates in line with the requirements of the receiving watercourse authorities (Internal Drainage Board, Environment Agency or Lead Local Flood Authority) and to provide treatment of runoff.	Embedded	Operation	Application Document 9.17.2 Kent Drainage Strategy	DCO Schedule 3, Requirement 6
W24	Application Document 6.2.3.4 Part 3 Kent Chapter 4 Water Environment	Effects on water environment receptors	Construction compounds, haul roads and bellmouths served by SuDS systems would be constructed at the same time as the formation platform of these infrastructure (to reduce the risk of flooding during the construction stage) and would include pollution controls to address the possibility of runoff contamination with oils and silts. Installation of filter drains/swales/header drains along the perimeter of construction compounds/parallel to haul roads to intercept 'clean' runoff from the adjacent land. These SuDS would be maintained in accordance with a SuDS maintenance schedule to ensure continued good function throughout the construction period.	Embedded	Construction	Application Document 7.5.3 Outline Onshore Construction Environmental Management Plan	DCO Schedule 3, Requirement 6 Onshore Construction Environmental Management Plan
W25	Application Document 6.2.3.4 Part 3 Kent Chapter 4 Water Environment	Effects on water environment receptors	Balancing ponds will be provided around the Minster Converter Station and Substation and close to the proposed access road to create a new riparian perimeter of 1.38 km. The final habitat creation proposals will be developed through the final Landscape and Ecological Management Plan so may deviate from areas/ habitats presented here.	Embedded	Operation	Application Document 7.5.7.2 Outline Landscape and Ecological Management Plan – Kent	DCO Schedule 3, Requirement 6 Landscape and Ecological Management Plan (LEMP) – Kent
W33	Application Document 7.5.3 Outline Onshore Construction Environmental Management Plan	Watercourse blockage	Appropriate mitigation will be in place to avoid the possibility of debris or construction materials falling into the River Stour and causing potential blockages on the watercourse. This could include debris netting under the temporary bridge, though still allowing the 4m clearance for navigation, details of this will be included in the CEMP. The final CEMP will include a method statement for construction of the scaffolding either side of the River Stour.	Control and management measures	Construction	Application Document 7.5.3 Outline Onshore Construction Environmental Management Plan	DCO Schedule 3, Requirement 6 Onshore Construction Environmental Management Plan
W37	Application Document 7.5.3 Outline Onshore Construction Environmental Management Plan	Impacts on water quality	The Applicant will prepare a hoverport condition monitoring plan post consent to monitor the condition of the hoverport during construction. This will include measures for identifying and managing any potential contamination risk and will	Additional	Construction	Application Document 7.5.3 Outline Onshore Construction Environmental Management Plan	DCO Schedule 3, Requirement 6 Onshore Construction Environmental Management Plan (CEMP)

(1) ID	(2) ES or Standalone Document Reference	(3) Potential Changes and Effects	(4) Measure Proposed	(5) Mitigation	(6) Project Phase	(7) Securing Document/Plan	(8) Securing Mechanism
			be prepared in consultation with the EA, NE, KWT and TDC for approval by TDC.				
Geology and Hydrogeology							
GH11	Application Document 6.2.3.5 Part 3 Kent Chapter 5 Geology and Hydrogeology	Impacts on groundwater Source Protection Zone 1	The proposed construction compound within the Source Protection Zone 1 within Kent will be designed and operated in accordance with the following: 1. The conceptual ground model will be confirmed through intrusive ground investigation, 2. There will be no below ground storage of liquids/fuels/chemicals, 3. There will be no water abstractions or discharges within this compound, and 4. Best available techniques will be followed for both construction and operation of this compound. This will include commitments such as using double skinned and/or bunded tanks, drip trays, spill kits etc.	Control and management measures	Construction and Operation	Application Document 7.5.3 Outline Onshore Construction Environmental Management Plan	DCO Schedule 3, Requirement 6 Onshore Construction Environmental Management Plan (CEMP)
Agriculture and Soils							
No specific mitigation measures relevant to Kent identified.							
Traffic and Transport							
TT07	Application Document 6.2.3.7 Part 3 Kent Chapter 7 Traffic and Transport Application Document 6.3.3.1.4.A Appendix 1.4.A Crossings Schedule	Impact on PRoW	During the pre-application stage infrastructure and temporary works have been sensitively routed and sited including to minimise the requirement to close/divert PRoW. Where possible, this will be further minimised during the detailed design process through the PRoW Management Plan-Kent, including minimising the requirement to close/ divert PRoW in the vicinity of the River Stour.	Embedded	Construction and Operation	Application Document 7.5.9.2 Outline Public Rights of Way Management Plan – Kent	DCO Schedule 3, Requirement 6 Public Rights of Way (PRoW) Management Plan – Kent
TT08	Application Document 6.2.3.7 Part 3 Kent Chapter 7 Traffic and Transport	Impacts on the highway and walking and cycling routes	Trenchless methods employed at some locations at the landfall (including underneath Sandwich Road, the Viking Coastal Trail, the Kings Charles III England Coast Path and the A256) will minimise potential impacts on the highway and walking/ cycling routes.	Embedded	Construction	Environmental Statement	Embedded – no securing mechanism required
TT09	Application Document 6.2.3.7 Part 3 Kent Chapter 7 Traffic and Transport	Impact on highway network	Potential carriageway widening works, vegetation clearance and street furniture removal at the locations as identified within the CTMTP for Kent will be implemented to accommodate construction vehicles (including Abnormal Indivisible Loads).	Embedded`	Construction	Application Document 7.5.1.2 Outline Construction Traffic Management and Travel Plan – Kent	DCO Schedule 3, Requirement 6 Construction Traffic Management and Travel Plan – Kent
Air Quality							
No specific mitigation measures relevant to Kent identified.							
Noise and Vibration							

(1) ID	(2) ES or Standalone Document Reference	(3) Potential Changes and Effects	(4) Measure Proposed	(5) Mitigation	(6) Project Phase	(7) Securing Document/Plan	(8) Securing Mechanism
NV10	Application Document 6.2.3.10 Part 3 Kent Chapter 10 Noise and Vibration	Impacts on noise sensitive receptors	Application of site-specific BPM (e.g. screening) will be incorporated into the detailed design of the Proposed Project to reduce levels of noise and vibration from potentially significant construction activities.	Additional	Construction	Application Document 7.5.8.2 Outline Construction Noise and Vibration Management Plan – Kent	DCO Schedule 3, Requirement 6 Construction Noise and Vibration Management Plan (NVMP) – Kent
Socio-economics, Recreation and Tourism							
No specific mitigation measures relevant to Kent identified.							
Health and Wellbeing							
No specific mitigation measures relevant to Kent identified.							
Arboriculture							
A18	Application Document 6.10 Arboricultural Impact Assessment	Negative impacts to the structure of the soil within the RPAs of T612K (ancient tree) and T614K (veteran tree) from all-terrain vehicles used for monitoring and maintenance access in wet conditions on soft ground.	Access required for monitoring and) maintenance within the RPAs of T612K (ancient tree) and T614K (veteran tree) in wet conditions, will be achieved by pedestrian only access or, where all-terrain vehicle access is required, fit for purpose ground protection specified to the highest expected load in accordance with Application Document 6.10 Arboricultural Impact Assessment will be utilised to avoid negatively impacting the soil structure.	Embedded	Construction	Application Document 7.5.3 Outline Onshore Construction Environmental Management Plan Arboricultural Method Statement	DCO Schedule 3, Requirement 6 Onshore Construction Environmental Management Plan (CEMP) DCO Schedule 3, Requirement 8 Retention and protection of existing trees and hedgerows

Table 3.4 Register of Environmental Actions and Commitments – Offshore Scheme

(1) ID	(2) ES Reference	(3) Potential Changes and Effects	(4) Measure Proposed	(5) Mitigation	(6) Project Phase	(7) Securing Document/Plan	(8) Securing Mechanism
General project commitments							
GM01	All Offshore Scheme Technical Chapters	Physical disturbance to the seabed.	Designated (and as minimal as possible) anchoring areas and protocols shall be employed during marine operations to minimise physical disturbance of the seabed.	Control and management measures	All Phases	Application Document 7.5.2 Outline Offshore Construction Environmental Management Plan.	Condition 4(1)(b) of the DML
GM02	All Offshore Scheme Technical Chapters	Disturbance to other sea users.	As-built locations of cable and external protection will be supplied to UK Hydrographic Office (UKHO) (Admiralty), The Crown Estate and Kingfisher (KIS-ORCA) and Port Authorities.	Control and management measures	Construction	Application Document 7.5.2 Outline Offshore Construction Environmental Management Plan.	Condition 4(1)(b) of the DML
GM03	All Offshore Scheme Technical Chapters	Offshore pollution.	An offshore Construction Environmental Management Plan (CEMP) including an Emergency Spill Response Plan and Waste Management Plan, Marine Pollution Contingency Plan (MPCP), Shipboard Oil Pollution Emergency Plan (SOPEP) and a dropped objects procedure will be produced prior to installation.	Control and management measures	All	Application Document 7.5.2 Outline Offshore Construction Environmental Management Plan.	Condition 4(1)(b) of the DML
GM04	All Offshore Scheme Technical Chapters	Sensitive routeing and siting of infrastructure and temporary works.	Sensitive routeing and siting of infrastructure and temporary works.	Embedded	Construction	Application Document 2.5.3 Work Plans – Offshore.	DCO Schedule 1 and 16
GM05	All Offshore Scheme Technical Chapters	-	The Undertaker will ensure that early and continued stakeholder consultations take place.	Embedded	All Phases	Application Document 7.5.2 Outline Offshore Construction Environmental Management Plan.	Condition 4(1)(b) of the DML
GM06	Application Document 7.5.2 Outline Offshore Construction Environmental Management Plan		A suitably experienced Environmental Manager will be appointed for the duration of the construction phase who can cover both onshore and intertidal requirements. In addition, a qualified and experienced Environmental Clerk of Works (EnvCoW) will be assigned to Pegwell Bay during the construction phase to advise, supervise and report on the delivery of the mitigation methods and controls outlined in the Offshore CEMP. The EnvCoW will monitor that the works proceed in accordance with relevant environmental DML requirements and adhere to the required good practice and mitigation measures.	Control and management	Construction	Application Document 7.5.2 Outline Offshore Construction Environmental Management Plan.	Condition 4(1)(b) of the DML
GM07	Application Document 7.5.2 Outline Offshore Construction		The Applicant will ensure that the contractor considers measures to avoid use of microplastics where possible.	Embedded	All Phases	Application Document 7.5.2 Outline Offshore Construction	Condition 4(1)(b) of the DML

(1) ID	(2) ES Reference	(3) Potential Changes and Effects	(4) Measure Proposed	(5) Mitigation	(6) Project Phase	(7) Securing Document/Plan	(8) Securing Mechanism
	Environmental Management Plan					Environmental Management Plan.	
GM08	Application Document 7.5.2 Outline Offshore Construction Environmental Management Plan		The Applicant will factor in the removability of cable protection when identifying the external cable protection for the Proposed Project. The Applicant will ensure it uses all available best practice guidance for cable decommissioning in its decision making.	Embedded	Construction	9.92 Outline Cable Specification and Installation Plan (Outline CSIP)	Condition 4(1)(b) of the DML
GM09	Application Document 7.5.2 Outline Offshore Construction Environmental Management Plan		The Applicant commits to no planned freespans (sections of the cable that are not touching the seabed) as part of the Proposed Project.	Additional	All	Application Document 7.5.2 Outline Offshore Construction Environmental Management Plan Application Document 9.12 Outline Navigation and Installation Plan	Condition 4(1)(b) of the DML DCO Schedule 3, Requirement 6 Navigation and Installation Plan
GM10	Application Document 7.5.2 Outline Offshore Construction Environmental Management Plan	Impediment of water depths	Trial trenching, if required, would not be undertaken within the three Areas of Safeguarded Water Depth or within any designated sites which are designated for the protection of benthic habitats.	Additional	Construction	Application Document 7.5.2 Outline Offshore Construction Environmental Management Plan Application Document 9.92 Outline Cable Specification and Installation Plan	Condition 4(1)(b) of the DML DCO Schedule 3, Requirement 6 Cable Specification and Installation Plan
Landfall and vessel set up							
LVS01	All Offshore Scheme Technical Chapters	Release of ballast water.	All project vessels shall adhere to the International Convention for the Control and Management of Ships' Ballast Water and Sediments, 2004 (BWM Convention).	Control and management measures	All	Application Document 7.5.2 Outline Offshore Construction Environmental Management Plan.	Condition 4(1)(b) of the DML
LVS02	All Offshore Scheme Technical Chapters	Collision.	All project vessels must comply with the International Regulations for Preventing Collisions at Sea (1972) (IMO, 2019), regulations relating to International Convention for the Prevention of Pollution from Ships (the MARPOL Convention 73/78) (IMO, 2019) with the aim of preventing and minimising pollution from ships and the international Convention for the Safety of Life at Sea (SOLAS, 1974).	Control and management measures	All	Application Document 7.5.2 Outline Offshore Construction Environmental Management Plan.	Condition 4(1)(b) of the DML
LVS03	All Offshore Scheme Technical Chapters	Failure of installation machinery.	An installation machine failure contingency plan will be produced prior to installation.	Control and management measures	Construction	Application Document 7.5.2 Outline Offshore Construction Environmental Management Plan.	Condition 4(1)(b) of the DML
LVS04	All Offshore Scheme Technical Chapters	The release of oil, fuel and/or chemical spills.	All oil, fuel and chemical spills will be reported to the MMO Marine Pollution response team.	Control and management measures	All	Application Document 7.5.2 Outline Offshore Construction	Condition 4(1)(b) of the DML

(1) ID	(2) ES Reference	(3) Potential Changes and Effects	(4) Measure Proposed	(5) Mitigation	(6) Project Phase	(7) Securing Document/Plan	(8) Securing Mechanism
						Environmental Management Plan.	
LVS05	All Offshore Scheme Technical Chapters	The release of drilling fluids into the marine environment.	Drilling fluids required for trenchless operations will be carefully managed to minimise the risk of breakouts into the marine environment. Specific avoidance measures would include: • the use of biodegradable drilling fluids (pose little or no risk (PLONOR) substances) where practicable; • drilling fluids will be tested for contamination to determine possible reuse or disposal; and • If disposal is required drilling fluids would be transported by a licensed courier to a licensed waste disposal site.	Control and management measures	Construction	Application Document 7.5.2 Outline Offshore Construction Environmental Management Plan.	Condition 4(1)(b) of the DML
Marine physical environment							
MPE01	Application Document 6.2.4.1 Part 4 Marine Chapter 1 Physical Environment	Disturbance to the seabed.	During the course of cable route clearance, specific activities will be completed to remove items from the seabed. Out of Service cables will be removed as per industry guidelines, larger debris including lost fishing gear will be removed prior to cable installation and a pre-lay grapnel run will be completed to ensure smaller debris is removed. In the event that abandoned, lost or discarded fishing gear (‘ALDFG’) is encountered, it may be necessary in certain circumstances to bring ALDFG onto the vessel deck. In these instances, marked ALDFG will be returned to the Marine Management Orgnaisation (MMO) / local Inshore Fisheries and Conservation Authority (IFCA) for onward retrieval by the owner of the marked gear, in line with existing best practice. Not all gear (particularly ‘active’ gear) is marked; if necessary to bring onto the vessel deck, unmarked gear will be disposed of via conventional onshore waste channels. Recovered objects identified as ‘wreck’ must be reported to the Receiver of Wreck within 28 days under the obligations of the Merchant Shipping Act 1995 and must be stored and maintained at the finder’s expense until a decision is made on ownership. It is recommended that advice is sought from the marine archaeological consultant with regards survey campaigns and data assessments, to ensure, where possible, 'wreck' of possible or known archaeological interest can be avoided and left in situ.	Control and management measures	Construction	Application Document 7.5.2 Outline Offshore Construction Environmental Management Plan.	Condition 4(1)(b) of the DML

(1) ID	(2) ES Reference	(3) Potential Changes and Effects	(4) Measure Proposed	(5) Mitigation	(6) Project Phase	(7) Securing Document/Plan	(8) Securing Mechanism
MPE02	Application Document 6.2.4.1 Part 4 Marine Chapter 1 Physical Environment	Disturbance to the seabed.	For subtidal sections of the cable route, the minimum depth of lowering (DOL) to the top of the cable is 0.5 m (in areas of bedrock), with a target DOL for the Proposed Project approximately 1 m to 2.5 m, to be achieved where possible dependant on the seabed geology. At both the Kent and Suffolk landfalls, seaward of the marine trenchless exit, a target DOL of 1.5 m will apply.	Control and management measures	All Phases	Application Document 7.5.2 Outline Offshore Construction Environmental Management Plan.	Condition 4(1)(b) of the DML
MPE03	Application Document 6.2.4.1 Part 4 Marine Chapter 1 Physical Environment	Disturbance to the seabed.	Cable protection features (e.g. rock placement, mattresses and grout bags) will be installed only where considered necessary for the safe operation of the Proposed Project. This includes the repair of cables due to accidental damage.	Control and management measures	Construction	Application Document 7.5.2 Outline Offshore Construction Environmental Management Plan.	Condition 4(1)(b) of the DML
MPE06	Application Document 6.2.4.1 Part 4 Marine Chapter 1 Physical Environment	Impacts to coastal erosion.	Over the operational lifetime of the Proposed Project, monitoring of the beach profile and erosion rates will be carried out at both the Suffolk and Kent landfall sites in relation to the trenchless technique construction areas associated with the exit pits. The frequency and scope of monitoring would be dependent on the outcomes of the pre-construction surveys and 'as-built' status of the Offshore Scheme. The Applicant will produce a monitoring plan, in substantial accordance with the outline In-Principle Monitoring Plan to be submitted to the MMO to cover works below Mean High Water Springs within three months of the 'as-built survey' unless otherwise agreed in writing by the MMO.	Additional	Operation	Application Document 7.5.2 Outline Offshore Construction Environmental Management Plan. Application Document 9.140 Outline In Principle Monitoring Plan.	Condition 4(1)(b) of the DML
MPE07	Application Document 6.2.4.1 Part 4 Marine Chapter 1 Physical Environment	Impacts to the Coralline Crag ridges	Installation of cables should not create pre-cut trenches at the Coralline Crags outcrop (as defined within Application Document 9.113 (A) The Coralline Crag Technical Note) due to the sensitivity of the system.	Embedded	Construction	Application Document 7.5.2 Outline Offshore Construction Environmental Management Plan.	Condition 4(1)(b) of the DML
MPE08	Application Document 7.5.2 Outline Offshore Construction Environmental Management Plan	Erosion at landfall	Further analysis will be undertaken to consider the potential for coastal erosion over the lifetime of the project in line with the Final Offshore Construction and Environmental Management Plan (CEMP). This information will be used to inform the detailed design of the Proposed Project, to ensure that the risk of future exposure of the intertidal and offshore buried cables is as reduced as far as practicable.	Additional	Construction	Application Document 7.5.2 Outline Offshore Construction Environmental Management Plan. Application Document 9.140 Outline In Principle Monitoring Plan	Condition 4(1)(b) of the DML
MPE10	Application Document 7.5.2 Outline Offshore Construction	Impact on the Pegwell Bay physical environment	At the Kent landfall, reinstatement of the excavation pits through both natural and, if required, mechanical backfill within the intertidal	Additional	Construction	Application Document 7.5.2 Outline Offshore Construction	Condition 4(1)(b) of the DML

(1) ID	(2) ES Reference	(3) Potential Changes and Effects	(4) Measure Proposed	(5) Mitigation	(6) Project Phase	(7) Securing Document/Plan	(8) Securing Mechanism
	Environmental Management Plan		mudflats will be completed following removal of the cofferdams. This measure will be included in the Pegwell Bay Landfall Construction Method Statement which is already secured within the Offshore CEMP.			Environmental Management Plan	
MPE11	Application Document 7.5.2 Outline Offshore Construction Environmental Management Plan	Impacts to coastal erosion	Cofferdams at the Suffolk Landfall are not included within the Proposed Project. The Landfall trenchless exit pits at the Suffolk Landfall are in c. 7.5m (LAT) of water, therefore cofferdams are not required.	Additional	Construction	Application Document 7.5.2 Outline Offshore Construction Environmental Management Plan.	Condition 4(1)(b) of the DML
MPE12	Application Document 7.5.2 Outline Offshore Construction Environmental Management Plan	Impacts on sediment processes	Boulders would be relocated locally in similar habitats and placed to be reflective of the surrounding habitats and not in linear berms which have the potential to disrupt sediment transport.	Additional	Construction	Application Document 7.5.2 Outline Offshore Construction Environmental Management Plan.	Condition 4(1)(b) of the DML
MPE13	Application Document 7.5.2 Outline Offshore Construction Environmental Management Plan	Impacts on Goodwin Sands MCZ	The Applicant does not anticipate the need for continuous external cable protection adjacent to the Goodwin Sands MCZ, on the basis of confidence in achieving the required depth of cable lowering. However, if external cable protection is required locally, the Applicant commits to limiting its use to no more than 500 metres in total, whether continuous or cumulative, within sections of the offshore cable corridor adjacent to the Goodwin Sands MCZ (unless otherwise agreed with the MMO, in consultation with Natural England and the MCA). In such circumstances, the installed height of any external cable protection will be limited to a maximum of 1 metre above the surrounding seabed. Furthermore, where reasonably practicable, and in line with the Applicant's commitment to sensitive routing, the offshore cable corridor will be micro-routed to maintain a separation distance of at least 100 metres from the boundary of the Goodwin Sands MCZ.	Additional	Construction	Application Document 7.5.2 Outline Offshore Construction Environmental Management Plan.	Condition 4(1)(b) of the DML
MPE14	Application Document 7.5.2 Outline Offshore Construction Environmental Management Plan	Impacts on coastal erosion at Suffolk Landfall	At the Suffolk landfall, where a trenchless landfall construction technique is employed, the Applicant commits to ensuring that the drilled alignment achieves a minimum depth defined as follows: • For the length of landfall installed between the western boundary of the RSPB North Warren Reserve and the western boundary of The Haven Local Nature Reserve, the minimum depth of the trenchless landfall shall be 12 metres below existing ground level	Additional	Construction	Application Document 7.5.2 Outline Offshore Construction Environmental Management Plan.	Condition 4(1)(b) of the DML

(1) ID	(2) ES Reference	(3) Potential Changes and Effects	(4) Measure Proposed	(5) Mitigation	(6) Project Phase	(7) Securing Document/Plan	(8) Securing Mechanism
			• For the length of landfall installed beneath The Haven Local Nature Reserve, the trenchless landfall shall be below elevation -10.5m OD. The specification of these minimum depths is such that the trenchless works remain at sufficient depth beneath sensitive designated land and the dynamic coastal zone to provide a conservative margin against reasonable worst case future coastal change and erosion over the lifetime of the Proposed Project.				
Benthic ecology							
BE01	Application Document 6.2.4.2 Part 4 Marine Chapter 2 Benthic Ecology	Direct or indirect spread of invasive species.	A biosecurity plan will be produced for the project, following the latest guidance on invasive non-native species (INNS) from the Great Britain (GB) non-native species secretariat.	Control and management measures	Construction	Application Document 7.5.2 Outline Offshore Construction Environmental Management Plan, Application Document 7.5.12 Outline Offshore Invasive Non-Native Species Management Plan.	Condition 4(1)(b) of the DML DCO Schedule 3, Requirement 6 Offshore Invasive Non-Native Species Management Plan
BE02	Application Document 6.2.4.2 Part 4 Marine Chapter 2 Benthic Ecology	Transfer of invasive aquatic species.	All project vessels shall adhere to the International Maritime Organisation (IMO) Guidelines for the control and management of ships' biofouling to minimize the transfer of invasive aquatic species (Biofouling Guidelines 2011).	Control and management measures	Construction	Application Document 7.5.2 Outline Offshore Construction Environmental Management Plan Application Document 7.5.12 Outline Offshore Invasive Non-Native Species Management Plan.	Condition 4(1)(b) of the DML DCO Schedule 3, Requirement 6 Offshore Invasive Non-Native Species Management Plan
BE03	Application Document 6.2.4.2 Part 4 Marine Chapter 2 Benthic Ecology	Direct or indirect spread of invasive species.	Any material introduced into the marine environment, such as rock protection material, will be from a suitable source or cleaned to ensure no invasive non-native species (INNS) can be introduced.	Control and management measures	Construction	Application Document 7.5.2 Outline Offshore Construction Environmental Management Plan, Application Document 7.5.12 Outline Offshore Invasive Non-Native Species Management Plan.	Condition 4(1)(b) of the DML DCO Schedule 3, Requirement 6 Offshore Invasive Non-Native Species Management Plan DCO Schedule 16
BE04	Application Document 6.2.4.2 Part 4 Marine	Direct or indirect spread of invasive species.	Where possible, cable protection materials will use locally sourced materials or environmentally benign sources.	Control and management measures	Construction	Application Document 7.5.2 Outline Offshore Construction	Condition 4(1)(b) of the DML

(1) ID	(2) ES Reference	(3) Potential Changes and Effects	(4) Measure Proposed	(5) Mitigation	(6) Project Phase	(7) Securing Document/Plan	(8) Securing Mechanism
	Chapter 2 Benthic Ecology					Environmental Management Plan Application Document 7.5.12 Outline Offshore Invasive Non-Native Species Management Plan.	DCO Schedule 3, Requirement 6 Offshore Invasive Non-Native Species Management Plan
BE05	Application Document 6.2.4.2 (C) Part 4 Marine Chapter 2 Benthic Ecology	Impacts on benthic habitats of principal habitats	As secured under the dML, in accordance with the Environmental Principles set out in the Outline Cable Specification and Installation Plan, where benthic habitats of principal importance (qualifying as Habitats Regulations Annex I habitats; Natural Environment and Rural Communities (NERC) Section 41 habitats and species) are identified during pre-construction surveys, and additional mitigation is required to avoid or reduce impacts on these habitats, the Undertaker must prepare a Benthic Mitigation Plan. Any necessary Benthic Mitigation Plan(s) must be submitted to and approved in writing by the MMO prior to Work 6 in the dML commencing and should include a timetable for implementation of the mitigation and details of any necessary monitoring. Any agreed mitigation and/or monitoring must be implemented in accordance with the agreed timetable. A monitoring plan, in substantial accordance with the outline In-Principle Monitoring Plan will be submitted to the MMO (unless otherwise agreed in writing by the MMO) within three months of the 'as-built survey'.	Control and management measures	Construction	Application Document 7.5.2 Outline Offshore Construction Environmental Management Plan Application Document 9.140 Outline In Principle Monitoring Plan	Condition 4(1)(b) of the DML
BE06	Application Document 7.5.2 Outline Offshore Construction Environmental Management Plan	Impacts on habitats of principle importance	All phases of the cable routing and design will seek to minimise impacts on habitats of principal importance (qualifying as Habitats Regulations Annex I habitats; Natural Environment and Rural Communities (NERC) Section 41 habitats and species), including micrositing and consideration of the use, type and location of cable protection.	Additional	Construction	Application Document 7.5.2 Outline Offshore Construction Environmental Management Plan	Condition 4(1)(b) of the DML
BE07	Application Document 7.5.2 Outline Offshore Construction Environmental Management Plan	Impact on Sabellaria spinulosa reef	The Applicant will avoid relocating any sediment to with 50m of any Annex II *Sabellaria spinulosa* reef identified during pre-construction surveys and/or adjacent to and updrift of sandwaves.	Additional	Construction	Application Document 7.5.2 Outline Offshore Construction Environmental Management Plan Application Document 9.92 Outline Cable Specification and Installation Plan.	Condition 4(1)(b) of the DML DCO Schedule 3, Requirement 6 Cable Specification and Installation Plan
Fish and shellfish							

(1) ID	(2) ES Reference	(3) Potential Changes and Effects	(4) Measure Proposed	(5) Mitigation	(6) Project Phase	(7) Securing Document/Plan	(8) Securing Mechanism
FSF01	Application Document 6.2.4.3 Part 4 Marine Chapter 3 Fish and Shellfish	Effects to fish caused by Electro Magnetic Field (EMF).	The target Depth of Lowering (DOL) will be between 1 m to 2.5 m (subject to local geology and obstructions).	Control and management measures	Construction	Application Document 7.5.2 Outline Offshore Construction Environmental Management Plan	Condition 4(1)(b) of the DML
Marine mammals							
MM01	Application Document 6.2.4.4 Part 4 Marine Chapter 4 Marine Mammals	Impacts from underwater sound generated from known project activities.	Adherence to Joint Nature Conservation Committee (JNCC) (JNCC, 2025) guidelines, where appropriate, regarding the minimisation of impacts from underwater sound generated from known project activities including geophysical surveys.	Control and management measures	Construction	Application Document 7.5.2 Outline Offshore Construction Environmental Management Plan Application Document 7.5.11 Outline Marine Mammal Mitigation Plan.	Condition 4(1)(b) of the DML DCO Schedule 3, Requirement 6 Marine Mammal Mitigation Plan
MM02	Application Document 6.2.4.4 Part 4 Marine Chapter 4 Marine Mammals	Noise disturbance.	Adherence to Joint Nature Conservation Committee (JNCC) (JNCC, 2020) guidance for assessing the significance of noise disturbance against conservation objectives of the Southern North Sea Special Area of Conservation (SAC).	Control and management measures	Construction	Application Document 7.5.2 Outline Offshore Construction Environmental Management Plan Application Document 7.5.11 Outline Marine Mammal Mitigation Plan.	Condition 4(1)(b) of the DML DCO Schedule 3, Requirement 6 Marine Mammal Mitigation Plan
MM03	Application Document 6.6. Habitats Regulations Assessment Report	Impacts from underwater sound generated from known project activities.	No offshore construction or UXO removal may commence until the undertaker has provided confirmation to the MMO that they have begun participation in the Development Coordination forum. This participation must continue until agreed with the MMO in consultation with the relevant Statutory Nature Conservation Bodies.	Control and management measures	Construction	Application Document 7.5.2 Outline Offshore Construction Environmental Management Plan Application Document 7.5.11 Outline Marine Mammal Mitigation Plan.	Condition 4(1)(b) of the DMLDCO Schedule 3, Requirement 6 Offshore Construction Environmental Management Plan DCO Schedule 3, Requirement 6 Marine Mammal Mitigation Plan
MM04	Application Document 6.6. Habitats Regulations Assessment Report	Impacts from underwater sound generated from known project activities.	The Applicant will seek to carry out survey activities, where practicable, during summer months to maximise suitable survey weather windows.	Control and management measures	Construction	Application Document 7.5.2 Outline Offshore Construction Environmental Management Plan Application Document 7.5.11 Outline Marine Mammal Mitigation Plan.	Condition 4(1)(b) of the DMLDCO Schedule 3, Requirement 6 Offshore Construction Environmental Management Plan DCO Schedule 3, Requirement 6 Marine Mammal Mitigation Plan
Ornithology							

(1) ID	(2) ES Reference	(3) Potential Changes and Effects	(4) Measure Proposed	(5) Mitigation	(6) Project Phase	(7) Securing Document/Plan	(8) Securing Mechanism
O01	Application Document 6.2.4.5 Part 4 Marine Chapter 5 Ornithology	Accidental spillages from occurring and to minimise disturbance of sediments.	The Offshore CEMP will outline the best practice mitigation measures required to be implemented during construction. This would include measures to prevent accidental spillages from occurring and to minimise disturbance of sediments.	Control and management measures	Construction	Application Document 7.5.2 Outline Offshore Construction Environmental Management Plan Application Document 7.8 Red Throated Diver Protocol.	Condition 4(1)(b) of the DMLDCO Schedule 3, Requirement 6 Offshore Construction Environmental Management Plan Condition 4(1) of the DML Red Throated Diver Protocol.
O02	Application Document 6.2.4.5 Part 4 Marine Chapter 5 Ornithology	Accidental spillages from occurring and to minimise disturbance of sediments.	There will be Health, Safety and Environment (HSE) procedures implemented, with strict limits on weather conditions, equipment maintenance and personnel to further reduce the risk of any accidental spills/releases. Furthermore, in the event of a spill, a response will be made swiftly.	Control and management measures	Construction	Application Document 7.5.2 Outline Offshore Construction Environmental Management Plan Application Document 7.8 Red Throated Diver Protocol.	Condition 4(1)(b) of the DMLDCO Schedule 3, Requirement 6 Offshore Construction Environmental Management Plan Condition 4(1) of the DML Red Throated Diver Protocol.
O03	Application Document 6.2.4.5 Part 4 Marine Chapter 5 Ornithology	Disturbance to Red Throated Diver.	For red-throated diver, a full seasonal restriction (1st November – 31st March) for offshore cable burial activities (including pre-lay grapnel run activities) in the Outer Thames Estuary SPA and a 2 km buffer and a reduced seasonal restriction (1st January – 31st March) will apply to landfall cable installation activities at the Suffolk landfall in Aldeburgh.	Additional	Construction	Application Document 7.5.2 Outline Offshore Construction Environmental Management Plan Application Document 7.8 Red Throated Diver Protocol.	Condition 4(1)(b) of the DMLDCO Schedule 3, Requirement 6 Offshore Construction Environmental Management Plan Condition 4(1) of the DML Red Throated Diver Protocol.
O04	Application Document 6.2.4.5 Part 4 Marine Chapter 5 Ornithology	Disturbance to Red Throated Diver.	Existing shipping lanes will be utilised for vessel transiting routes to avoid additional disturbance, where practicable.	Control and management measures	Construction	Application Document 7.5.2 Outline Offshore Construction Environmental Management Plan Application Document 7.8 Red Throated Diver Protocol.	Condition 4(1)(b) of the DMLDCO Schedule 3, Requirement 6 Offshore Construction Environmental Management Plan Condition 4(1) of the DML Red Throated Diver Protocol.
O05	Application Document 6.2.4.5 Part 4 Marine Chapter 5 Ornithology	Disturbance to Red Throated Diver.	Vessel operators will be made aware of the importance and sensitivity of the species to disturbance. Vessels will avoid rafting birds and areas with high densities of birds, where practicable.	Control and management measures	Construction	Application Document 7.5.2 Outline Offshore Construction Environmental Management Plan	Condition 4(1)(b) of the DMLDCO Schedule 3, Requirement 6 Offshore Construction Environmental Management Plan

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						Application Document 7.8 Red Throated Diver Protocol.	Condition 4(1) of the DML Red Throated Diver Protocol.
O06	Application Document 6.2.4.5 Part 4 Marine Chapter 5 Ornithology	Disturbance to Red Throated Diver.	Artificial lighting on vessels will be directional and only used when necessary, noting that health and safety requirements will need to be met for safe working practices.	Control and management measures	Construction	Application Document 7.5.2 Outline Offshore Construction Environmental Management Plan Application Document 7.8 Red Throated Diver Protocol.	Condition 4(1)(b) of the DMLDCO Schedule 3, Requirement 6 Offshore Construction Environmental Management Plan Condition 4(1) of the DML Red Throated Diver Protocol.
O07	Application Document 6.2.4.5 Part 4 Marine Chapter 5 Ornithology	Cold Weather Protocol	Cold Weather Protocol. To minimise additional stress to waterbirds, in the intertidal zone of Pegwell Bay, during periods of severe weather the following restriction will be applied, where practicable. If freezing conditions persist for five consecutive days, work should cease until there has been three consecutive days of thaw.	Control and management measures	Construction	Application Document 7.5.2 Outline Offshore Construction Environmental Management Plan	Condition 4(1)(b) of the DMLDCO Schedule 3, Requirement 6 Offshore Construction Environmental Management Plan
Marine archaeology							
MA01	Application Document 6.2.4.6 Part 4 Marine Chapter 6 Marine Archaeology	Disturbance to Marine Archaeology.	A Written Scheme of Investigation (WSI) including a Protocol for Archaeological Discoveries will be agreed with the Archaeological Curator via the Regulator and implemented (**Application Document 7.5.5 Outline Offshore Written Scheme of Investigation (WSI)**) prior to works commencing. Unavoidable impacts to potential archaeological receptors would be addressed through a series of agreed control and management measures to deal with the discoveries once impacts have occurred. These measures would be outlined in a WSI and would be in place throughout the construction, operation, maintenance and decommissioning phases. The WSI would address unavoidable impacts that may occur anywhere in the Offshore Scheme and particularly where the nature of the Proposed Project means that some details have not been confirmed when an application is submitted, allowing flexibility within clearly defined parameters (Rochdale Envelope or Design Envelope) in accordance with archaeological best practice.	Control and management measures	Construction	Application Document 7.5.2 Outline Offshore Construction Environmental Management Plan Application Document 7.5.5 Outline Offshore Overarching Written Scheme of Investigation.	Condition 4(1)(b) of the DML DCO Schedule 3, Requirement 14 Outline Offshore Overarching Written Scheme of Investigation

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			A project-specific Protocol for Archaeological Discoveries will be established to support the reporting of unexpected archaeological material during the lifetime of the Project. Impact to unexpected archaeological material is reduced by promptly receiving archaeological advice and undertaking recording and/or conserving any objects that have been disturbed. Additional offshore investigation of features with an uncertain identity or archaeological value can often mean their true nature and value can be better understood. A Protocol for Archaeological Discoveries reduces the impact on the marine historic environment by enabling Project staff to report their finds in a manner that is convenient and effective. Any additional marine geophysical survey, diver or remotely operated vehicle (ROV) survey footage that takes place within the area will be assessed by a suitably qualified marine geophysicist or marine archaeologist, as appropriate. If an archaeologically important site is subsequently discovered during Project works, a temporary exclusion zone (TEZ) will be established to allow for further investigation to take place. The TEZ would then be re-evaluated, removed or expanded, based on the results of further investigations				
MA02	Application Document 6.2.4.6 Part 4 Marine Chapter 6 Marine Archaeology	Disturbance to Marine Archaeology.	A WSI will also include offsetting of archaeological impact where necessary through the completion of a Stage 3 palaeo-environmental assessment (including scientific dating and updated deposit modelling, if required) of deposits of high geoarchaeological potential which may be disturbed.	Control and management measures	Construction	Application Document 7.5.2 Outline Offshore Construction Environmental Management Plan Application Document 7.5.5 Outline Offshore Overarching Written Scheme of Investigation.	Condition 4(1)(b) of the DML DCO Schedule 3, Requirement 14 Outline Offshore Overarching Written Scheme of Investigation
MA03	Application Document 6.2.4.6 Part 4 Marine Chapter 6 Marine Archaeology	Disturbance to Marine Archaeology.	The project will be run in compliance with all relevant legislation, consents and permits, for example the Marine and Coastal Access Act 2009, Protection of Military Remains 1986, Merchant Shipping Act 1995, Protection of Wrecks Act 1973 and Ancient Monuments and Archaeological Areas Act 1979.	Control and management measures	Construction	Application Document 7.5.2 Outline Offshore Construction Environmental Management Plan Application Document 7.5.5 Outline Offshore Overarching Written Scheme of Investigation.	Condition 4(1)(b) of the DML DCO Schedule 3, Requirement 14 Outline Offshore Overarching Written Scheme of Investigation
MA04	Application Document 6.2.4.7 Part 4 Marine	Disturbance/ damage to archaeological features.	Locations of known marine archaeological interest/value within the marine environment will be avoided by all marine vessels by the	Control and management measures	Construction	Application Document 7.5.2 Outline Offshore Construction	Condition 4(1)(b) of the DML

(1) ID	(2) ES Reference	(3) Potential Changes and Effects	(4) Measure Proposed	(5) Mitigation	(6) Project Phase	(7) Securing Document/Plan	(8) Securing Mechanism
	Chapter 7 Marine Archaeology		implementation of appropriately sized Archaeological Exclusions Zones (AEZs). No works that could impact the seabed will be undertaken within the extent of an AEZ during the construction, operation and maintenance, or decommissioning phases of the Offshore Scheme. AEZs may be amended (enlarged, reduced, moved or removed) because of further data assessment or archaeological field evaluation and must be undertaken in consultation with the Archaeological Curator, Historic England.			Environmental Management Plan Application Document 7.5.5 Outline Offshore Overarching Written Scheme of Investigation.	DCO Schedule 3, Requirement 14 Outline Offshore Overarching Written Scheme of Investigation
MA05	Application Document 6.2.4.6 Part 4 Marine Chapter 6 Marine Archaeology	Disturbance/ damage to archaeological features.	Where a previously unknown heritage asset is discovered, or a known heritage asset proves to be more significant than foreseen at the time of application, the project would inform the MMO, as advised by Historic England. All works that led to the discovery would stop until a solution is agreed that protects the significance of the new discovery, utilising agreed mitigation measures such as AEZs and avoidance.	Control and management measures	Construction	Application Document 7.5.2 Outline Offshore Construction Environmental Management Plan Application Document 7.5.5 Outline Offshore Overarching Written Scheme of Investigation. .	Condition 4(1)(b) of the DML DCO Schedule 3, Requirement 14 Outline Offshore Overarching Written Scheme of Investigation
MA06	Application Document 6.2.4.6 Part 4 Marine Chapter 6 Marine Archaeology	Disturbance/ damage to archaeological features.	Archaeological features of lower archaeological value will be avoided where practicable within the marine and coastal/intertidal areas. Micro-siting of the cable route and siting of infrastructure and temporary works will help to avoid seabed features, such as geophysical anomalies of archaeological potential. It is recommended that consultation with the archaeological consultant is undertaken with regards to routing around such anomalies of archaeological potential.	Control and management measures	Construction	Application Document 7.5.2 Outline Offshore Construction Environmental Management Plan Application Document 7.5.5 Outline Offshore Overarching Written Scheme of Investigation.	Condition 4(1)(b) of the DML DCO Schedule 3, Requirement 14 Outline Offshore Overarching Written Scheme of Investigation
MA07	Application Document 6.2.4.6 Part 4 Marine Chapter 6 Marine Archaeology	Disturbance/ damage to archaeological features.	Archaeological input at the planning stages of any further survey work should be undertaken. Archaeological Method Statements will be prepared for the following additional works: ground truthing of anomalies (e.g. ROV), diver survey or coordination with UXO campaigns); marine geophysical or geotechnical surveys; intertidal, coastal or marine watching briefs and/ or excavation (where deemed necessary and in agreement with the Archaeological Curator); measures to protect marine heritage assets from indirect impacts (e.g. physical buffers); and post-construction monitoring works. Method Statements will be prepared by a suitably qualified, experienced and accredited marine archaeological consultant and will require approval by the Regulator (the MMO), and the	Control and management measures	Construction	Application Document 7.5.2 Outline Offshore Construction Environmental Management Plan. Application Document 7.5.5 Outline Offshore Overarching Written Scheme of Investigation.	Condition 4(1)(b) of the DML DCO Schedule 3, Requirement 14 Outline Offshore Overarching Written Scheme of Investigation

(1) ID	(2) ES Reference	(3) Potential Changes and Effects	(4) Measure Proposed	(5) Mitigation	(6) Project Phase	(7) Securing Document/Plan	(8) Securing Mechanism
			Archaeological Curator (Historic England for marine works and the respective local authority curatorial bodies that serve Suffolk and Kent for works in the intertidal zone).				
MA08	Application Document 6.2.4.6 Part 4 Marine Chapter 6 Marine Archaeology	Disturbance/ damage to archaeological features.	Where sensitive routeing and siting of infrastructure and temporary works around marine heritage assets is not possible, anomaly investigation will be undertaken to confirm the nature and value of the seabed anomaly. Methods of ground truthing assessment could include ROV or diver survey offshore and watching briefs onshore, and could be undertaken in conjunction and in coordination with other surveys associated with the Offshore Scheme, for example unexploded ordnance (UXO) or obstruction surveys. All relevant information and data derived from such surveys should be assessed by a suitably qualified, experienced and accredited marine archaeological consultant, and in accordance with the associated WSI.	Additional	Construction	Application Document 7.5.2 Outline Offshore Construction Environmental Management Plan Application Document 7.5.5 Outline Offshore Overarching Written Scheme of Investigation.	Condition 4(1)(b) of the DML DCO Schedule 3, Requirement 14 Outline Offshore Overarching Written Scheme of Investigation
MA09	Application Document 6.2.4.6 Part 4 Marine Chapter 6 Marine Archaeology	Disturbance/ damage to archaeological features.	Any further marine geophysical or geotechnical surveys undertaken, for instance post-consent or post-construction, will be archaeologically assessed and interpreted by a suitably qualified, experienced and accredited marine archaeological geophysicist or geoarchaeologist. Work will be undertaken in accordance with the associated WSI (**Application Document 7.5.5 Outline Offshore Written Scheme of Investigation (WSI)**) and accompanying Method Statements. The results of such surveys will be integrated with previous interpretations and reported on accordingly to inform archaeological mitigation and consent compliance. It is also recommended that archaeological specialists are included in the design of any geophysical and geotechnical surveys to ensure that opportunities are maximised where possible.	Additional	Construction	Application Document 7.5.2 Outline Offshore Construction Environmental Management Plan Application Document 7.5.5 Outline Offshore Overarching Written Scheme of Investigation.	Condition 4(1)(b) of the DML DCO Schedule 3, Requirement 14 Outline Offshore Overarching Written Scheme of Investigation
MA10	Application Document 6.2.4.6 Part 4 Marine Chapter 6 Marine Archaeology	Disturbance/ damage to archaeological features.	Watching briefs will be utilised in the intertidal, coastal or marine areas where any intrusive works are planned. These could include pre-lay grapnel runs or intertidal cable-laying in an excavated trench. The proposed methodology will be presented in a Method Statement and agreed through consultation with the Regulator, the MMO, and the Archaeological Curator, Historic England, for marine works and the respective local authority curatorial bodies that	Additional	Construction	Application Document 7.5.2 Outline Offshore Construction Environmental Management Plan Application Document 7.5.5 Outline Offshore Overarching Written Scheme of Investigation.	Condition 4(1)(b) of the DML DCO Schedule 3, Requirement 14 Outline Offshore Overarching Written Scheme of Investigation

(1) ID	(2) ES Reference	(3) Potential Changes and Effects	(4) Measure Proposed	(5) Mitigation	(6) Project Phase	(7) Securing Document/Plan	(8) Securing Mechanism
			serve Suffolk and Kent for works in the intertidal and coastal zone.				
MA11	Application Document 6.2.4.6 Part 4 Marine Chapter 6 Marine Archaeology	Disturbance/ damage to archaeological features.	Once the design of the Offshore Scheme has been confirmed, it may be possible to ascertain measures to protect heritage assets that could be indirectly impacted, for instance by scouring, exposure or erosion, caused by direct impacts to the seabed. For instance, 'physical buffers' may be placed around a heritage asset to protect it from scour. The proposed methodology for such works will be outlined in a Method Statement and approved by the Archaeological Curator, Historic England and the Regulator, the MMO.	Additional	Construction	Application Document 7.5.2 Outline Offshore Construction Environmental Management Plan Application Document 7.5.5 Outline Offshore Overarching Written Scheme of Investigation.	Condition 4(1)(b) of the DML DCO Schedule 3, Requirement 14 Outline Offshore Overarching Written Scheme of Investigation
MA12	Application Document 6.2.4.6 Part 4 Marine Chapter 6 Marine Archaeology		The Marine WSI contains details of the mitigation measures to prevent and reduce impact to marine archaeological features and material. The Marine Written Scheme of Investigation (WSI) and any associated Archaeological Method Statements must be complied with throughout the project. Contractors should be provided with GIS files containing up to date details of the location of all marine archaeological anomalies, which should all be avoided where possible. Locations and extents of all AEZs should also be provided, whereby impact to the seabed is prohibited inside these areas. Where accidental impact inside an AEZ does occur, contractors should be aware of the process for reporting it to the MMO, with advice from Historic England. Work within the AEZ should immediately cease if impact is known to have occurred. If any archaeological material is discovered, contractors must ensure that the bespoke Protocol for Archaeological Discoveries for the Proposed Project is followed and reporting of material occurs accordingly. Prior to works, contractors must provide contact details as required for the purposes of the Protocol.	Additional	Construction	Application Document 7.5.2 Outline Offshore Construction Environmental Management Plan Application Document 7.5.5 Outline Offshore Overarching Written Scheme of Investigation.	Condition 4(1)(b) of the DML DCO Schedule 3, Requirement 14 Outline Offshore Overarching Written Scheme of Investigation
MA13	Application Document 6.2.4.6 Part 4 Marine Chapter 6 Marine Archaeology	Disturbance/ damage to archaeological features.	Prior to works commencing, contractors should have familiarised themselves with the Protocol for Archaeological Discoveries and undertake awareness training. Contractors should provide relevant contact details to the Archaeological Contractor to ensure the lines of communication are clear for the Protocol to run smoothly. If archaeological material is discovered, contractors	Additional	Construction	Application Document 7.5.2 Outline Offshore Construction Environmental Management Plan Application Document 7.5.5 Outline Offshore Overarching	Condition 4(1)(b) of the DML DCO Schedule 3, Requirement 14 Outline Offshore Overarching Written Scheme of Investigation

(1) ID	(2) ES Reference	(3) Potential Changes and Effects	(4) Measure Proposed	(5) Mitigation	(6) Project Phase	(7) Securing Document/Plan	(8) Securing Mechanism
			must ensure that the Protocol is followed and reporting of material occurs accordingly. The obligations of the Merchant Shipping Act 1995 and Protection of Military Remains Act 1986 will be complied with.			Written Scheme of Investigation.	
MA14	Application Document 6.2.4.6 Part 4 Marine Chapter 6 Marine Archaeology	Disturbance/damage to archaeological features.	Contractors should be provided with GIS files containing information showing areas of archaeological potential with regards to palaeolandscapes. Contractors should be made aware of the interests of the archaeological contractor with regards surveys.	Additional	Construction	Application Document 7.5.2 Outline Offshore Construction Environmental Management Plan Application Document 7.5.5 Outline Offshore Overarching Written Scheme of Investigation.	Condition 4(1)(b) of the DML DCO Schedule 3, Requirement 14 Outline Offshore Overarching Written Scheme of Investigation
Shipping and navigation							
SN01	Application Document 6.2.4.7 Part 4 Marine Chapter 7 Shipping and Navigation	Disturbance to Shipping and Navigation.	A risk based burial approach will be used where cables will be buried to a minimum DOL to the top of the cable of 0.5 m (in areas of bedrock), with a target DOL for the Proposed Project of approximately 1 m to 2.5 m, assessing cable protection risk factors such as sediment type, shallow geology, sediment mobility, fishing activity, shipping movements and anchor deployment along the route. If burial is unsuccessful in the Areas of Safeguarded Depth (as defined by Application Document 9.104 Areas of Safeguarded Water Depth Plan) such that the depth protection specified in DCO Schedule 3 Requirement 17 is not met, then the Remedial Clause in the Outline Cable Specification and Installation Plan (CSIP) will be activated, subject always to any statutory enforcement action.	Control and management measures	Construction	Application Document 7.5.2 Outline Offshore Construction Environmental Management Plan Application Document 9.92 Outline Cable Specification and Installation Plan.	Condition 4(1)(b) of the DML DCO Schedule 3, Requirement 6 Cable Specification and Installation Plan
SN02	Application Document 6.2.4.7 Part 4 Marine Chapter 7 Shipping and Navigation	Disturbance to Shipping and Navigation.	Relevant information will be communicated to other sea users via Notices to Mariners (NtM), Radio Navigation Warnings Navigational Telex (NAVTEX) and/or broadcast warnings.	Control and management measures	All Phases	Application Document 7.5.2 Outline Offshore Construction Environmental Management Plan Application Document 9.12 Outline Navigation and Installation Plan	Condition 4(1)(b) of the DML DCO Schedule 3, Requirement 6 Navigation and Installation Plan
SN03	Application Document 6.2.4.7 Part 4 Marine Chapter 7 Shipping and Navigation	Disturbance to Shipping and Navigation.	All Project vessels will display appropriate marks and lights and will always broadcast their status on AIS.	Control and management measures	All Phases	Application Document 7.5.2 Outline Offshore Construction Environmental Management Plan	Condition 4(1)(b) of the DML
SN04	Application Document 6.2.4.7 Part 4 Marine Chapter 7 Shipping and Navigation	Disturbance to Shipping and Navigation.	Temporary aids to navigation will be used as required to guide vessels around areas of installation activity.	Control and management measures	Construction	Application Document 7.5.2 Outline Offshore Construction Environmental Management Plan	Condition 4(1)(b) of the DML

(1) ID	(2) ES Reference	(3) Potential Changes and Effects	(4) Measure Proposed	(5) Mitigation	(6) Project Phase	(7) Securing Document/Plan	(8) Securing Mechanism
SN05	Application Document 6.2.4.7 Part 4 Marine Chapter 7 Shipping and Navigation	Disturbance to Shipping and Navigation.	A compass deviation report will be produced prior to installation.	Control and management measures	Construction	Application Document 7.5.2 Outline Offshore Construction Environmental Management Plan	Condition 4(1)(b) of the DML
SN06	Application Document 6.2.4.7 Part 4 Marine Chapter 7 Shipping and Navigation	Disturbance to other vessels.	Guard vessel(s), using RADAR with Automatic RADAR Plotting Aid (ARPA) and Automatic Identification System (AIS) to monitor vessel activity and predict possible interactions, will be employed to work alongside the installation vessel(s) during cable installation works.	Control and management measures	Construction	Application Document 7.5.2 Outline Offshore Construction Environmental Management Plan	Condition 4(1)(b) of the DML
SN08	Application Document 6.2.4.7 Part 4 Marine Chapter 7 Shipping and Navigation	Disturbance to other vessels.	A Navigation and Installation Plan (NIP) secured within the Deemed Marine Licence, will be established with clear protocols to ensure effective communication and coordination between all relevant shipping and navigation stakeholders, including SHAs (Statutory Harbour Authorities), Competent Harbour Authorities (CHAs, Vessel Traffic Services (VTS), and Traffic Separation Scheme (TSS) operators. This will maintain ongoing awareness and coordination of Offshore Scheme installation fleet activities and awareness of their locations during construction, among all relevant parties. Special attention will be given to the routeing of the installation operation through the Sunk TSS and when in proximity to the Sunk Deep Water anchorage area and the Sunk pilot station, as well as when routeing in proximity to the Tongue anchorages and pilot station, and in particular within the Areas of Safeguarded Depth as defined in Application Document 9.104 Areas of Safeguarded Water Depth Plan. Communication plans will include key stakeholders such as Harwich Haven, Port of London Authority, London Gateway Port and Sandwich Port and Haven authorities, in particular on the topic of under-keel clearance.	Additional	All Phases	Application Document 7.5.2 Outline Offshore Construction Environmental Management Plan Application Document 9.12 Outline Navigation and Installation Plan	Condition 4(1)(b) of the DML DCO Schedule 3, Requirement 6 Navigation and Installation Plan
SN23	Application Document 6.2.4.7 Part 4 Marine Chapter 7 Shipping and Navigation	Disturbance to Shipping and Navigation.	The Undertaker has refined the route design to run north of the W1 buoy.	Embedded	All Phases	Application Document 7.5.2 Outline Offshore Construction Environmental Management Plan. Application Document 2.5.3 Work Plans – Offshore.	Condition 4(1)(b) of the DML DCO Schedule 1 and 16
SN24	Application Document 6.2.4.7 Part 4 Marine	Disturbance to Shipping and Navigation.	Presence of Vessel Traffic Service (VTS) in region – Existing shore-side systems which range from the provision of simple information messages to ships, such as position of other	Embedded	All Phases	Application Document 7.5.2 Outline Offshore Construction	Condition 4(1)(b) of the DML

(1) ID	(2) ES Reference	(3) Potential Changes and Effects	(4) Measure Proposed	(5) Mitigation	(6) Project Phase	(7) Securing Document/Plan	(8) Securing Mechanism
	Chapter 7 Shipping and Navigation		traffic or meteorological hazard warnings, to extensive management of traffic within a port or waterway.			Environmental Management Plan.	
SN25	Application Document 6.2.4.7 Part 4 Marine Chapter 7 Shipping and Navigation	Disturbance to Shipping and Navigation.	Establishment of operations weather envelope limits for the construction operations. Installation operations should monitor weather conditions and evaluate critical minimum operational envelope for relevant activities.	Embedded	All Phases	Application Document 7.5.2 Outline Offshore Construction Environmental Management Plan.	Condition 4(1)(b) of the DML
SN26	Application Document 6.2.4.7 Part 4 Marine Chapter 7 Shipping and Navigation	Disturbance to Shipping and Navigation.	Issuance of Adverse Weather Guidelines as required - Issued by ports in response to forecast bad weather. Potentially limits collisions, disruption and sub-surface interactions by deterring vessels from navigating anchoring fishing etc near hazards in bad weather.	Embedded	All Phases	Application Document 7.5.2 Outline Offshore Construction Environmental Management Plan.	Condition 4(1)(b) of the DML
SN27	Application Document 6.2.4.7 Part 4 Marine Chapter 7 Shipping and Navigation	Disturbance to Shipping and Navigation.	Compliance with MGN661 Navigation - Safe and responsible anchoring and fishing practices - In line with guidance provided by the UKHO and International Convention for the Safety of Life at Sea (SOLAS) it is recommended that fishing vessels should avoid trawling over installed subsea infrastructure.	Embedded	All Phases	Application Document 7.5.2 Outline Offshore Construction Environmental Management Plan.	Condition 4(1)(b) of the DML
SN28	Application Document 6.2.4.7 Part 4 Marine Chapter 7 Shipping and Navigation	Disturbance to Shipping and Navigation.	The Undertaker will design rock berms to reduce snagging risk.	Embedded	All Phases	Application Document 7.5.2 Outline Offshore Construction Environmental Management Plan.	Condition 4(1)(b) of the DML
SN29	Application Document 6.2.4.7 Part 4 Marine Chapter 7 Shipping and Navigation	Disturbance to Shipping and Navigation.	Rolling 500 m radius Recommended Restricted Zones will be in place around construction vessels. Prior to construction, the Proposed Project will liaise with the Interested Parties to establish communication protocols regarding these RRZs.	Embedded	All Phases	Application Document 7.5.2 Outline Offshore Construction Environmental Management Plan Application Document 9.12 Outline Navigation and Installation Plan	Condition 4(1)(b) of the DMLDCO Schedule 3, Requirement 6 Navigation and Installation Plan
SN30	Application Document 6.2.4.7 Part 4 Marine Chapter 7 Shipping and Navigation	Disturbance to Shipping and Navigation	Cable burial depth and protection is of particular concern in Pegwell Bay with regards to reduction in under-keel clearance and subsequent effect on navigation, as this is a region of shallow water depths, a changing approach channel and challenging navigation. This therefore needs to be taken into account in design and construction, to ensure the project is minimising the risk of introducing seabed hazards in this region.	Embedded	All Phases	Application Document 7.5.2 Outline Offshore Construction Environmental Management Plan Application Document 9.92 Outline Cable Specification and Installation Plan.	Condition 4(1)(b) of the DMLDCO Schedule 3, Requirement 6 Cable Specification and Installation Plan
SN31	Application Document 6.2.4.7 Part 4 Marine Chapter 7 Shipping and Navigation	Disturbance to Shipping and Navigation.	The Proposed Project cable will not be routed any closer to the Sunk W1 buoy than the 151 m distance that is currently planned, in order to protect both the buoy and the cable, as agreed with Trinity House.	Embedded	All Phases	Application Document 7.5.2 Outline Offshore Construction Environmental Management Plan.	Condition 4(1)(b) of the DML DCO Schedule 1 and 16

(1) ID	(2) ES Reference	(3) Potential Changes and Effects	(4) Measure Proposed	(5) Mitigation	(6) Project Phase	(7) Securing Document/Plan	(8) Securing Mechanism
						Application Document 2.5.3 Work Plans – Offshore.	
SN32	Application Document 6.2.4.7 Part 4 Marine Chapter 7 Shipping and Navigation	Disturbance to Shipping and Navigation.	As per the 'Relevant Representation of NGET in respect of the North Falls Offshore Windfarm DCO', the Proposed Project agrees that the parties will continue to engage during pre-construction and construction with other cable installation projects in the vicinity of the Sunk pilot boarding station. The purpose of this engagement will be to coordinate as far as practicable marine activities which may overlap in time, in order to minimise the impact on shipping and the North Falls construction programme and the construction programme for Five Estuaries Offshore Wind Farm and Sea Link. This will also include, where appropriate, joint engagement with relevant stakeholders (HHA, PLA, Sunk VTS) to help inform and plan construction activities. The Proposed Project will establish and agree Concurrent RAM Activity Areas where simultaneous Restricted in Ability to Manoeuvre (RAM) project vessels activities are not permitted, and present this in the final Sea Link Navigation and Installation Plan (NIP).	Embedded	All Phases	Application Document 7.5.2 Outline Offshore Construction Environmental Management Plan Application Document 9.12 Outline Navigation and Installation Plan	Condition 4(1)(b) of the DMLDCO Schedule 3, Requirement 6 Navigation and Installation Plan
SN33	Application Document 6.2.4.7 Part 4 Marine Chapter 7 Shipping and Navigation	Disturbance to Shipping and Navigation.	If a cable repair joint is required during the operational lifetime of the cable, as far as practicable this will be avoided within the Sunk area, but if such a scenario is unavoidable, the Project shall consider potential collision risk and minimize time spent during maintenance in this region as much as possible.	Embedded	All Phases	Application Document 7.5.2 Outline Offshore Construction Environmental Management Plan Application Document 9.92 Outline Cable Specification and Installation Plan.	Condition 4(1)(b) of the DMLDCO Schedule 3, Requirement 6 Cable Specification and Installation Plan
SN34	Application Document 6.2.4.7 Part 4 Marine Chapter 7 Shipping and Navigation	Disturbance to Shipping and Navigation.	Outside of the "Concurrent RAM Activity Areas" established in the Sea Link NIP, simultaneous operations with other offshore projects will still be avoided where possible. Where simultaneous operations do occur, the Project will have project vessel management procedures and planned protocols to minimize disruption and potential risks.	Additional	All	Application Document 7.5.2 Outline Offshore Construction Environmental Management Plan Application Document 9.12 Outline Navigation and Installation Plan	Condition 4(1)(b) of the DMLDCO Schedule 3, Requirement 6 Navigation and Installation Plan
SN35	Application Document 6.2.4.7 Part 4 Marine Chapter 7 Shipping and Navigation	Disturbance to Shipping and Navigation.	The Proposed Project will not put in place any permanent Exclusion Zones	Additional	All	Application Document 7.5.2 Outline Offshore Construction Environmental Management Plan,	Condition 4(1)(b) of the DMLDCO Schedule 3, Requirement 6 Cable Specification and Installation Plan

(1) ID	(2) ES Reference	(3) Potential Changes and Effects	(4) Measure Proposed	(5) Mitigation	(6) Project Phase	(7) Securing Document/Plan	(8) Securing Mechanism
						Application Document 9.92 Outline Cable Specification and Installation Plan.	
SN36	Application Document 6.2.4.7 Part 4 Marine Chapter 7 Shipping and Navigation	Disturbance to Shipping and Navigation.	Where practicable, a 200 m closest point of approach to Aids to Navigation along the cable route would be maintained. Where this is not possible, discussions with Trinity House will take place to reach an agreed acceptable distance. In the event that subsequent re-routeing during the detailed engineering phase would bring the proposed route closer to buoyage, this will be addressed with Trinity House on a case-by-case basis.	Additional	All	Application Document 7.5.2 Outline Offshore Construction Environmental Management Plan Application Document 9.92 Outline Cable Specification and Installation Plan.	Condition 4(1)(b) of the DMLDCO Schedule 3, Requirement 6 Cable Specification and Installation Plan
SN37	Application Document 6.2.4.7 Part 4 Marine Chapter 7 Shipping and Navigation	Disturbance to Shipping and Navigation.	The location of planned wet storage areas if required will not occur within the three Areas of Safeguarded Water Depth identified by the Port Authorities in Application Document 9.104 Areas of Safeguarded Water Depth Plan.	Additional	All	Application Document 7.5.2 Outline Offshore Construction Environmental Management Plan Application Document 9.92 Outline Cable Specification and Installation Plan.	Condition 4(1)(b) of the DMLDCO Schedule 3, Requirement 6 Cable Specification and Installation Plan
SN38	Application Document 7.5.2 Outline Offshore Construction Environmental Management Plan	Impediment of water depths	Unless agreed with MMO and relevant Statutory Bodies, no boulders would be relocated by the Proposed Project to or within the three Areas of Safeguarded Water Depth which would impede water depths in accordance with Requirement 17 of the DCO (Application Document 9.104 Areas of Safeguarded Water Depth Plan)	Additional	Construction	Application Document 7.5.2 Outline Offshore Construction Environmental Management Plan Application Document 9.92 Outline Cable Specification and Installation Plan.	Condition 4(1)(b) of the DML DCO Schedule 3, Requirement 6 Cable Specification and Installation Plan
SN39	Application Document 7.5.2 Outline Offshore Construction Environmental Management Plan	Impediment of water depths	Any archaeology finds found either outside or within the three Areas of Safeguarded Depth (Application Document 9.104 Areas of Safeguarded Water Depth Plan) would not be relocated within the three Areas of Safeguarded Depth.	Additional	Construction	Application Document 7.5.2 Outline Offshore Construction Environmental Management Plan Application Document 9.92 Outline Cable Specification and Installation Plan.	Condition 4(1)(b) of the DML DCO Schedule 3, Requirement 6 Cable Specification and Installation Plan
SN40	Application Document 7.5.2 Outline Offshore Construction Environmental Management Plan	Impediment of water depths	In relation to Sea Link marine cable works (Work No 6, including marine cable protection), the Applicant commits to use reasonable endeavours (such as are within the Applicant's control i.e. cable routing and cable protection or crossing design) to ensure that the depth protection required by both projects (Sea Link and Five Estuaries), such that navigable water depth is not	Additional	Construction	Application Document 7.5.2 Outline Offshore Construction Environmental Management Plan Application Document 9.92 Outline Cable Specification and Installation Plan.	Condition 4(1)(b) of the DML DCO Schedule 3, Requirement 6 Cable Specification and Installation Plan

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			reduced by greater than five per cent, and will be preserved following the crossing of Sea Link with the Five Estuaries Project cable(s). Where Sea link is installed first, this will be achieved by installing Sea Link at a location and water depth that provides sufficient vertical clearance to enable the Five Estuaries Project cable(s) to be laid over it without resulting in a reduction in navigable water depth of greater than five per cent. This commitment is secured in the Sea Link Register of Environmental Actions and Commitments (REAC) and the Outline Cable Specification and Installation Plan (oCSIP) and will be given effect through the crossing agreement to be entered into between the Applicant and Five Estuaries Project.				
Commercial fisheries							
CF01	Application Document 6.2.4.8 Part 4 Marine Chapter 8 Commercial Fisheries	Disturbance to fishing vessels.	A Fisheries Liaison Officer (FLO) and fisheries working group(s) will be maintained throughout installation to ensure project information is effectively disseminated, dialogue is maintained with the commercial fishing industry and access to home ports is maintained during the main fishing season.	Control and management measures	Construction	Application Document 7.5.2 Outline Offshore Construction Environmental Management Plan Application Document 9.85 Outline Fisheries Liaison and Coexistence Plan	Condition 4(1)(b) of the DMLDCO Schedule 3, Requirement 6 Fisheries Liaison and Coexistence Plan
CF02	Application Document 6.2.4.8 Part 4 Marine Chapter 8 Commercial Fisheries	Disturbance to other sea users.	Timings of any temporary areas of exclusion from fishing grounds will be clearly communicated via a notice to mariners.	Control and management measures	Construction	Application Document 7.5.2 Outline Offshore Construction Environmental Management Plan Application Document 9.85 Outline Fisheries Liaison and Coexistence Plan	Condition 4(1)(b) of the DMLDCO Schedule 3, Requirement 6 Fisheries Liaison and Coexistence Plan
CF03	Application Document 6.2.4.8 Part 4 Marine Chapter 8 Commercial Fisheries	Loss of/or damage to fishing gear.	Berms will be installed where cable protection is necessary. These will be designed with a 1:3 profile and flat crests, intended to prevent the risk of fishing gears snagging.	Control and management measures	Construction	Application Document 7.5.2 Outline Offshore Construction Environmental Management Plan Application Document 9.85 Outline Fisheries Liaison and Coexistence Plan	Condition 4(1)(b) of the DMLDCO Schedule 3, Requirement 6 Fisheries Liaison and Coexistence Plan
CF04	Application Document 6.2.4.8 Part 4 Marine Chapter 8 Commercial Fisheries	Loss of/or damage to fishing gear.	A procedure for the claim of loss, damage, relocation or removal of fishing gear will be included in the Fisheries Liaison and Co-Existence Plan (FLCP).	Control and management measures	Construction	Application Document 7.5.2 Outline Offshore Construction Environmental Management Plan Application Document 9.85 Outline Fisheries Liaison and Coexistence Plan	Condition 4(1)(b) of the DMLDCO Schedule 3, Requirement 6 Fisheries Liaison and Coexistence Plan

(1) ID	(2) ES Reference	(3) Potential Changes and Effects	(4) Measure Proposed	(5) Mitigation	(6) Project Phase	(7) Securing Document/Plan	(8) Securing Mechanism
CF05	Application Document 6.2.4.8 Part 4 Marine Chapter 8 Commercial Fisheries	Loss of/or damage to fishing gear.	Post installation surveys of the Offshore Scheme for depth of lowering and surveys of rock protection to check for snagging risk.	Additional	Construction	Application Document 7.5.2 Outline Offshore Construction Environmental Management Plan. Application Document 9.85 Outline Fisheries Liaison and Coexistence Plan	Condition 4(1)(b) of the DMLDCO Schedule 3, Requirement 6 Fisheries Liaison and Coexistence Plan
CF06	Application Document 6.2.4.8 Part 4 Marine Chapter 8 Commercial Fisheries	Loss of/or damage to fishing gear.	Procedures and process for ongoing consultation with fishers regarding cable protection design will be set out in the FLCP.	Additional	Construction	Application Document 7.5.2 Outline Offshore Construction Environmental Management Plan. Application Document 9.85 Outline Fisheries Liaison and Coexistence Plan	Condition 4(1)(b) of the DMLDCO Schedule 3, Requirement 6 Fisheries Liaison and Coexistence Plan
CF07	Application Document 6.2.4.11 Part 4 Marine Chapter 11 Inter-project Cumulative Effects (Section 11.4, paragraph 11.4.22)	Disturbance to fishing grounds	National Grid will maintain communications with other developments in the region with regard to respective installation timings and location. These communications will be communicated to fisheries through the FLCP.	Additional	Construction	Application Document 7.5.2 Outline Offshore Construction Environmental Management Plan. Application Document 9.85 Outline Fisheries Liaison and Coexistence Plan	Condition 4(1)(b) of the DMLDCO Schedule 3, Requirement 6 Fisheries Liaison and Coexistence Plan
CF08	Application Document 6.2.4.8 Part 4 Marine Chapter 8 Commercial Fisheries	Gear snagging	Minimising the amount of time the cable stays unprotected and exposed to potential interactions with anchoring vessels or fishing gear (anchor drag or gear snagging), during construction.	Embedded	Construction	Application Document 7.5.2 Outline Offshore Construction Environmental Management Plan. Application Document 9.85 Outline Fisheries Liaison and Coexistence Plan	Condition 4(1)(b) of the DMLDCO Schedule 3, Requirement 6 Fisheries Liaison and Coexistence Plan
Other sea users							
OSU01	Application Document 6.2.4.9 Part 4 Marine Chapter 9 Other Sea Users	Disturbance to private land.	Crossing and/or proximity agreements will be agreed with aggregate extraction, cable and pipeline owners. The crossing agreement describes the rights and responsibilities of the parties and also the design of the crossing. Crossing design will be in line with industry standards, using procedures and techniques agreed with the cable and pipeline owners.	Control and management measures	Construction and Operation	Application Document 7.5.2 Outline Offshore Construction Environmental Management Plan	Condition 4(1)(b) of the DML
OSU02	Application Document 6.2.4.9 Part 4 Marine Chapter 9 Other Sea Users	Disturbance to other sea users.	Timely and efficient communication will be given to sea users in the area via Notices to Mariners, Kingfisher Bulletins, NAVTEX and NAVAREA warnings.	Control and management measures	All	Application Document 7.5.2 Outline Offshore Construction Environmental Management Plan	Condition 4(1)(b) of the DML
OSU03	Application Document 6.2.4.6 Part 4 Marine	Disturbance to fisheries	Preparation and implementation of a Fisheries Liaison and Co-Existence Plan (FLCP) secured within the Deemed Marine Licence which will set out measures to mitigate impacts on fisheries	Control and management measures	Construction	Deemed Marine Licence	DCO Schedule 16

(1) ID	(2) ES Reference	(3) Potential Changes and Effects	(4) Measure Proposed	(5) Mitigation	(6) Project Phase	(7) Securing Document/Plan	(8) Securing Mechanism
	Chapter 6 Marine Archaeology		including coordinated communication and scheduling between developers of adjacent projects, early, consistent and ongoing engagement with the fisheries sector, and clear compensation agreements for gear loss, damage, relocation or removal.				

4. References

JNCC. (2020). *Guidance for assessing the significance of noise disturbance against Conservation Objectives of harbour porpoise SACs (England, Wales & Northern Ireland).* Retrieved from data.jncc.gov.uk: https://data.jncc.gov.uk/data/2e60a9a0-4366-4971-9327-2bc409e09784/JNCC

JNCC. (2025). *DRAFT JNCC guidelines for minimising the risk of injury to marine mammals from geophysical surveys.* Retrieved from jncc.gov.uk: Retrieved from https://jncc.gov.uk/media/9379/draft-jncc-geophysical-guidelines-2025.pdf

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